Usenet Newsgroup Archive: rec.radio.amateur.antenna

2009-01 - 2009-05

These Usenet messages were preserved as a plain-text archive. This PDF was generated by Digital Library of Amateur Radio & Communications from the source text file in 2026.

Date span: 2009-01-01 through 2009-05-31

Source text: rec.radio.amateur.antenna.txt

Source item: https://archive.org/details/usenet-rec

Messages included in this PDF: 3,488

Message records with no readable body available in the source text: 1

Messages are presented chronologically by archived date.

Binary or encoded payloads are not printed as blocks of encoded text; a placeholder appears where such material was detected. The original source text is unchanged.

1. Re: VHF FM Radio Antenna Construction?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 00:09:36 UTC
From: Dave <dave@dave.dave>
Message-ID: <qvydnXuDg6ldlMHUnZ2dnUVZ_oninZ2d@earthlink.com>
Source record: 18675

```
Nigel Molesworth wrote:
> On Wed, 31 Dec 2008 14:16:57 +0000, Dave <dave@dave.dave> wrote:
>
>> You have not stated the frequencies you need this for.
>
> Is there more than one VHF FM broadcast band then? I guess 88MHz to 108MHz.
>
> I don't think I've made my problem clear: I don't have space to mount a 1.5m
> antenna, hence my OP "Modern cars seem to have much shorter aerials ..."
>
> I've got about 75cm of headroom, so I need to use a short antenna, like they
> have on cars. So how are they made to be short?
>

http://www.elecfree.com/electronic/amfmsw-active-antenna-by-mpf102/
```

2. cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 15:05:41 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <495cdbce$0$589$c5fe31e7@reader.usenet4all.se>
Source record: 18676
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
a crisco can works well
```

3. Re: Motorcycle mobile

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 15:07:51 UTC
From: Philo <philo@nospampse.be>
Message-ID: <w%47l.142555$XB5.113457@newsfe29.ams2>
Source record: 18677

"Mike Coslo" <mjc5@psu.edu> wrote in message
news:gj98dv$d41a$1@tr22n12.aset.psu.edu...
> Santa left me an FT-10R, which I plan to put on my Shadow Spirit 1100.
> Nice bulletproof dual band unit with a detachable head, Bluetooth, and a
> lot of other features.
>
> While I'm deciding where to mount the radio - a Spirit is kind of retro
> chopper style, not a lot of open space, and whether to go bluetooth or
> wired for the headset, the antenna could be another issue.
>
> I had originally thought about a 5/8th, but a possible setup might have
> the antenna have no or little feedline, being directly connected to th e
> unit.
>
> I also want some sort of compromise between obtrusiveness and performance.
> I'm willing to put a bugcatcher on the SUV, but aesthetics are more
> important on the bike.
>
> Dual band 144/440 on a motorcycle...Any suggestions?
>
> - 73 de Mike N3LI -

I hope the Shadow Spirit's battery is heavier than the unit in the CBF1000.

Anyway start developing your "dead battery bike pushing" skills...

4. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 15:15:28 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <gjimmg$dk5a$1@tr22n12.aset.psu.edu>
Source record: 18678
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

KC8QJP wrote:
> a crisco can works well
>
>
Sometimes you can get empty paint cans at professional paint supplies
stores. They are nice as they are clean and shiny.

John W3JXP

5. Re: Vertical Monopole Radiation Characteristics

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 15:28:49 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <c102c194-7b1d-4bf2-9ad5-41053f78f31e@a12g2000pro.googlegroups.com>
Source record: 18679

On Dec 31 2008, 4:10 pm, Roy Lewallen <w...@eznec.com> wrote:
> Richard Fry wrote:
> > Roy Lewallen's post of Dec 29, 9:45 pm generally supports the points I
> > have been writing about.
>
> That surprises me. Apparently I didn't understand your points, which
> seem to emphasize the importance of considering the field very close to
> the antenna in evaluating an antenna's performance for long-distance
> skip communication. The data I posted show clearly that this isn't so,
> because that strong field at low angles is attenuated to virtually zero
> well before it can reach the ionosphere. The low elevation angle field
> close to the antenna is of interest only if the other station is close
> to the antenna.

If this belief were true then the long-distance coverage possible for some MW broadcast stations would have to be made using more than a single reflection from the ionosphere. Yet the texts of Terman (http://i62.photobucket.com/albums/h85/rfry-100/TermanFig55.jpg) and Laport (http://i62.photobucket.com/albums/h85/rfry-100/LaportFig23.jpg) show that such coverage is possible from single-hop skywave radiated at elevation angles of just a few degrees.

And as this is true for MW broadcast monopoles, it is equally true for the HF monopoles used by amateurs.

> Sorry, I interpreted your postings to state that the surface wave was an
> important factor to consider in determining the strength of the field
> from a vertical for working skip communication. If that's not what you
> meant, then exactly what is the point you were trying to make regarding
> the importance of considering the surface wave for amateur communication?

Again, I do not, and never have considered the surface wave to be important in skywave communications. The reason I referred to it was to show that if it exists with substantial relative field close to the radiator, then so does substantial radiation exist there at low elevation angles, and which can serve the most distance ranges using a single reflection from the ionosphere.

RF

6. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 15:29:55 UTC
From: kb9rqz@yahoo.com
Message-ID: <s7inl4t9v2lgv2ugkefcbf7u0ff48bjl88@4ax.com>
Source record: 18680
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

7. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 15:44:11 UTC
From: mopeyzakween@yahoo.com
Message-ID: <d62b4089-ea39-40c2-861c-4ae8b548e026@u18g2000pro.googlegroups.com>
Source record: 18681
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Jan 1, 10:15 am, John Passaneau <w3...@arrl.net> wrote:
> KC8QJP wrote:
> > a crisco can works well
>
> Sometimes you can get empty paint cans at professional paint supplies
> stores. They are nice as they are clean and shiny.
>
> John W3JXP

the poster is moparholic@hotmail.com who also uses
kenwood1701@hotmail.com in his impersonation of other people. He does
this because he wants to be gay with ham operators and they have
spurned him.

8. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 15:49:03 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <495ce5f8$0$590$c5fe31e7@reader.usenet4all.se>
Source record: 18682
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"John Passaneau" <w3jxp@arrl.net> wrote in message
news:gjimmg$dk5a$1@tr22n12.aset.psu.edu...
> KC8QJP wrote:
>> a crisco can works well
> Sometimes you can get empty paint cans at professional paint supplies
> stores. They are nice as they are clean and shiny.
>
> John W3JXP
>
>
Thanks for the tip!

9. Re: Vertical Monopole Radiation Characteristics

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 17:21:40 UTC
From: nm5k@wt.net
Message-ID: <ccad6f33-1f41-4a65-b960-b46f6c047596@o4g2000pra.googlegroups.com>
Source record: 18683

On Jan 1, 9:28 am, Richard Fry <r...@adams.net> wrote:

>
> Again, I do not, and never have considered the surface wave to be
> important in skywave communications. The reason I referred to it was
> to show that if it exists with substantial relative field close to the
> radiator, then so does substantial radiation exist there at low
> elevation angles, and which can serve the most distance ranges using a
> single reflection from the ionosphere.
>
> RF

I haven't really given this much thought, but seems to me the
low angle radiation that does reach the ionosphere and would
be useful for very long ranges would be considered the lower angles
of the space wave, and would be separate from the ground or surface
wave, whichever you would want to call it.. I tend to use "ground
wave",
but I've always considered it separate from the "space wave" as
I call it..
As a difference between the two, the ground wave would follow the
curvature of the earth, but the lowest angles of the space wave would
not. They would continue at the original angle, which naturally would
lead them to the ionosphere eventually. At low angles too if
measured from the transmitter location.
Anyway, seems to me almost all radiation that strikes the
ionosphere at low angles would be from the space wave, not the
ground wave.
I dunno if this makes any sense or is totally correct.. MPG will
vary..

10. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 17:41:27 UTC
From: Dave <dave@dave.dave>
Message-ID: <-6OdnZu6gcrVncDUnZ2dnUVZ_qXinZ2d@earthlink.com>
Source record: 18684
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

KC8QJP wrote:
> a crisco can works well
>
>

http://www.mfjenterprises.com/Product.php?productid=MFJ-250X

11. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 18:09:06 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <495d06cc$0$591$c5fe31e7@reader.usenet4all.se>
Source record: 18685
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"Dave" <dave@dave.dave> wrote in message
news:-6OdnZu6gcrVncDUnZ2dnUVZ_qXinZ2d@earthlink.com...
> KC8QJP wrote:
>> a crisco can works well
>
> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>
>
http://image.lotte.com/lotte/images/goods/007007002/7266434.jpg

12. Re: The Difference Between : Telaturd and real newsgroup users...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 18:24:09 UTC
From: Monty Hall <HallMonitor@Hall.com>
Message-ID: <gjj2jlrcb3@news.motzarella.org>
Source record: 18687
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

```
"Telamon" <telamon_spamshield@pacbell.net.is.invalid> wrote in message
news:telamon_spamshield-639A53.14221631122008@newsclstr02.news.prodigy.com...
> In article <gjdt11$erq$1@news.albasani.net>,
> "RP" <rpalino@NOSPAMmailandnews.com> wrote:
>
>> "Telamon" <telamon_spamshield@pacbell.net.is.invalid> wrote in message
>> news:telamon_spamshield-A065FE.20383728122008@newsclstr03.news.prodigy.net...
>> > In article <gj9ei3$rl1$1@news.albasani.net>,
>> > John Smith <assemblywizard@gmail.com> wrote:
>> >
>> >> RHF wrote:
>> >>
>> >> [stuff]
>> >>
>> >> RHF, I have no bone to pick with you, don't fall victim to trolls here
>> >> which just wish to "stir up chit", to mask their ignorance ...
>> >
>> > < SNIP >
>> >
>> > Now that is funny. One Trolling idiot posting a response to another
>> > trolling idiot "don't fall victim to the Trolls".
>>
>> And the hobo of s.r.sw Teleamon, the biggest troll here....is telling
>> other
>> trolls how to act!
>>
>> Hillarious!
>
> You are just a two bit anonymous posting moron that does not contribute
> to the news group in any meaningful way. None care what you post.

Yet you keep reading and responding to all these posts that you claim not to
care about.

Hillarious is right!

You keep reading these people that you say contribute nothing.

Hillarious again!

Some people contribute to the newsgroup simply by pointing out what a turd
you are....making sure others don't step in you.

>
> --
```

> Telamon
> Ventura, California

13. Re: Vertical Monopole Radiation Characteristics

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 18:24:13 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <ca45ca00-beaf-4f78-801f-e6e8e74edd7a@s1g2000prg.googlegroups.com>
Source record: 18686

On Jan 1, 11:21 am, n...@wt.net wrote:
> I haven't really given this much thought, but seems to me the
> low angle radiation that does reach the ionosphere and would
> be useful for very long ranges would be considered the lower angles
> of the space wave, and would be separate from the ground or surface
> wave...

I totally agree. That is the point I have been trying to make:
radiation from low elevation angles is not attenuated virtually to
zero before it reaches the ionosphere.

RF

14. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 19:22:44 UTC
From: funkbastler <nobody@nowhere.somewhere.us>
Message-ID: <js5ql45ns529bh6jqdopad1t07ir5svk1k@4ax.com>
Source record: 18688

On Thu, 01 Jan 2009 17:41:27 +0000, Dave <dave@dave.dave> wrote:

>KC8QJP wrote:
>> a crisco can works well
>>
>>
>
>http://www.mfjenterprises.com/Product.php?productid=MFJ-250X

Where's a good place to find transformer oil (besides at the top
of the utility pole outside the house)? Or, what's an acceptable
substitute?

--
-fb-

15. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 19:47:31 UTC
From: kb9rqz@yahoo.com
Message-ID: <he7ql4lh530da2t9orvmdkiucjcir2n3p7@4ax.com>
Source record: 18689
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

16. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 20:16:28 UTC
From: Spamm Trappe <bit-bucket@config.com>
Message-ID: <slrnglq94s.6fq.bit-bucket@shell.config.com>
Source record: 18690

```
On Thu, 01 Jan 2009 13:22:44 -0600, funkbastler wrote:
>
> Where's a good place to find transformer oil (besides at the top
> of the utility pole outside the house)? Or, what's an acceptable
> substitute?

Here's The Answer:
http://tinyurl.com/22c6t
and here:
http://tinyurl.com/a3mk6j
```

17. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 21:02:42 UTC
From: funkbastler <nobody@nowhere.somewhere.us>
Message-ID: <bdbql4dcqim07latvshgbrb40256p86dlf@4ax.com>
Source record: 18691

On 1 Jan 2009 20:16:28 GMT, Spamm Trappe <bit-bucket@config.com> wrote:

>On Thu, 01 Jan 2009 13:22:44 -0600, funkbastler wrote:
>>
>> Where's a good place to find transformer oil (besides at the top
>> of the utility pole outside the house)? Or, what's an acceptable
>> substitute?
>
>Here's The Answer:
> http://tinyurl.com/22c6t

heh heh... that URL seems to be down.

I did google it (froogled it, actually)... don't need a
55-gallon drum of the stuff, or any Transformer "action
figures."

>and here:
> http://tinyurl.com/a3mk6j

Thanks.

--
-fb-

18. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 21:36:06 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <9fe2d255-6bb7-4239-bc9d-617cd3cd2614@r10g2000prf.googlegroups.com>
Source record: 18692
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Jan 1, 7:15 am, John Passaneau <w3...@arrl.net> wrote:
> KC8QJP wrote:
> > a crisco can works well
>
> Sometimes you can get empty paint cans at professional paint supplies
> stores. They are nice as they are clean and shiny.
>
> John W3JXP

Paint the Can Flat Black and you will
have a "Stealth CanTenna".

Paint the Can with Invisiable Paint
and you just may never see it again.
.

19. Re: Vertical Monopole Radiation Characteristics

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 21:46:13 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <p-ednYL1S-07pMDUnZ2dnUVZ_jmdnZ2d@posted.easystreetonline>
Source record: 18693

Richard Fry wrote:
> On Jan 1, 11:21 am, n...@wt.net wrote:
>> I haven't really given this much thought, but seems to me the
>> low angle radiation that does reach the ionosphere and would
>> be useful for very long ranges would be considered the lower angles
>> of the space wave, and would be separate from the ground or surface
>> wave...
>
> I totally agree. That is the point I have been trying to make:
> radiation from low elevation angles is not attenuated virtually to
> zero before it reaches the ionosphere.
>
> RF

I'm completely confused about the point you were trying to make. You called NEC results "misleading" when showing only "far field" (sky wave, without surface wave) results, and implied that the surface wave must be considered when determining skip performance. Are you now agreeing that it correctly shows the amount of radiation at low angles which is capable of reaching the ionosphere? If so, what's misleading about it? Or are you saying that the field strength capable of reaching the ionosphere at low angles is greater than NEC "far field" (sky wave) analysis reports? And if so, how much greater and why?

Roy Lewallen, W7EL

20. Re: Vertical Monopole Radiation Characteristics

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 21:50:19 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <X6GdnUrMurIBp8DUnZ2dnUVZ_jydnZ2d@posted.easystreetonline>
Source record: 18694

nm5k@wt.net wrote:
> On Jan 1, 9:28 am, Richard Fry <r...@adams.net> wrote:
>
>> Again, I do not, and never have considered the surface wave to be
>> important in skywave communications. The reason I referred to it was
>> to show that if it exists with substantial relative field close to the
>> radiator, then so does substantial radiation exist there at low
>> elevation angles, and which can serve the most distance ranges using a
>> single reflection from the ionosphere.
>>
>> RF
>
> I haven't really given this much thought, but seems to me the
> low angle radiation that does reach the ionosphere and would
> be useful for very long ranges would be considered the lower angles
> of the space wave, and would be separate from the ground or surface
> wave, whichever you would want to call it.. I tend to use "ground
> wave",
> but I've always considered it separate from the "space wave" as
> I call it..
> As a difference between the two, the ground wave would follow the
> curvature of the earth, but the lowest angles of the space wave would
> not. They would continue at the original angle, which naturally would
> lead them to the ionosphere eventually. At low angles too if
> measured from the transmitter location.
> Anyway, seems to me almost all radiation that strikes the
> ionosphere at low angles would be from the space wave, not the
> ground wave.
> I dunno if this makes any sense or is totally correct.. MPG will
> vary..

Yes, that's correct. And NEC (and EZNEC) correctly show this low angle sky wave radiation in their "far field" (sky wave only) analysis. The surface wave isn't of much interest to anyone except AM broadcasters, except perhaps some amateurs interested in local (a few tens of miles) ground wave communication on 160 meters.

Roy Lewallen, W7EL

21. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 22:21:42 UTC
From: Dave <dave@dave.dave>
Message-ID: <tJCdnUufH_9r3MDUnZ2dnUVZ_q_inZ2d@earthlink.com>
Source record: 18695
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

KC8QJP wrote:
> "Dave" <dave@dave.dave> wrote in message
> news:-6OdnZu6gcrVncDUnZ2dnUVZ_qXinZ2d@earthlink.com...
>> KC8QJP wrote:
>>> a crisco can works well
>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>>
>>
> http://image.lotte.com/lotte/images/goods/007007002/7266434.jpg
>
>
http://www.tcpglobal.com/autobodydepot/ItemDetail.aspx?ItemNo=CAN+GALLON

22. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 22:25:47 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <c50ee657-0706-4da7-97e3-649d5ec1c75d@b1g2000yqg.googlegroups.com>
Source record: 18696

On Jan 1, 2:22 pm, funkbastler <nob...@nowhere.somewhere.us> wrote:
> On Thu, 01 Jan 2009 17:41:27 +0000, Dave <d...@dave.dave> wrote:
> >KC8QJP wrote:
> >> a crisco can works well
>
> >http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>
> Where's a good place to find transformer oil (besides at the top
> of the utility pole outside the house)? Or, what's an acceptable
> substitute?
>
> --
> -fb-

I havent bought any in a long time but the local drug store used to sell mineral oil by the gallon. The gallon I bought was about $12 USD about 20 years ago. Lately I havent seen anything larger than a quart.My wife has a 12 oz bottle she picked up at the dollar store for $.97, that may be a good way to go. I know a guy that used "Marvel Mystery Oil" which is mostly mineral oil. He says the can will rust out will regular mineral oil but not with the MMO.

Jimmie

23. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 22:26:00 UTC
From: Dave <dave@dave.dave>
Message-ID: <tJCdnUWfH_9I38DUnZ2dnUVZ_q_inZ2d@earthlink.com>
Source record: 18697

```
funkbastler wrote:
> On Thu, 01 Jan 2009 17:41:27 +0000, Dave <dave@dave.dave> wrote:
>
>> KC8QJP wrote:
>>> a crisco can works well
>>>
>>>
>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>
> Where's a good place to find transformer oil (besides at the top
> of the utility pole outside the house)? Or, what's an acceptable
> substitute?
>
Mineral oil from the drug store.
```

24. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 22:47:05 UTC
From: Jim-NN7K
Message-ID: <HJb7l.10068$as4.6550@nlpi069.nbdc.sbc.com>
Source record: 18698

```
funkbastler wrote:
> On Thu, 01 Jan 2009 17:41:27 +0000, Dave <dave@dave.dave> wrote:
>
>> KC8QJP wrote:
>>> a crisco can works well
>>>
>>>
>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>
> Where's a good place to find transformer oil (besides at the top
> of the utility pole outside the house)? Or, what's an acceptable
> substitute?
>

Mineral Oil (available at your local drug store).
```

25. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:06:55 UTC
From: Dave <dave@dave.dave>
Message-ID: <PLSdncakAMYS0cDUnZ2dnUVZ_tHinZ2d@earthlink.com>
Source record: 18699
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
Dave wrote:
> KC8QJP wrote:
>> "Dave" <dave@dave.dave> wrote in message
>> news:-6OdnZu6gcrVncDUnZ2dnUVZ_qXinZ2d@earthlink.com...
>>> KC8QJP wrote:
>>>> a crisco can works well
>>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>>>
>>>
>> http://image.lotte.com/lotte/images/goods/007007002/7266434.jpg
>>
> http://www.tcpglobal.com/autobodydepot/ItemDetail.aspx?ItemNo=CAN+GALLON

http://www.ohmite.com/cgi-bin/showpage.cgi?product=270_series
```

26. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:14:05 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjjinudjr1@news.albasani.net>
Source record: 18700
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

KC8QJP wrote:
> a crisco can works well

When length/dia ratio of the waveguide is optimum, 31mm ant, proper
distance from ant-feed to back of can--the most bang for the size/buck ...

Regards,
JS

27. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:22:30 UTC
From: Dave <dave@dave.dave>
Message-ID: <R76dnbtMCZGrzcDUnZ2dnUVZ_gOdnZ2d@earthlink.com>
Source record: 18501
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

John Smith wrote:
> KC8QJP wrote:
>> a crisco can works well
>
> When length/dia ratio of the waveguide is optimum, 31mm ant, proper
> distance from ant-feed to back of can--the most bang for the size/buck ...
>
> Regards,
> JS

http://www.eham.net/forums/Elmers/1574

28. Re: Vertical Monopole Radiation Characteristics

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:25:21 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <e2cdbdcd-21df-44cd-a6fe-8efd065bc997@d36g2000prf.googlegroups.com>
Source record: 18502

On Jan 1, 3:46 pm, Roy Lewallen wrote:
>
> I'm completely confused about the point you were trying to make.
> You called NEC results "misleading" when showing only "far field"
> (sky wave, without surface wave) results, and implied that the
> surface wave must be considered when determining skip per-
> formance.

No, I did not write that the surface wave must be considered when determining skywave performance. Your understanding of what I posted is incorrect. Please re-read what I posted previously, and quote us any of my text that you believe supports your present conclusion about this.

Do you reject the data in the Terman and Laport plots I linked to showing that the most distant, single-hop skywave coverage over a real, curved earth originates from space wave radiation at very low elevation angles (less than 5 degrees above the horizontal plane at the transmit antenna site)?

> Are you now agreeing that it (far-field NEC) correctly shows the
> amount of radiation at low angles which is capable of reaching
> the ionosphere?

Absolutely not, and I am rather surprised that, apparently, you believe and support this concept.

RF

29. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:26:41 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjjjfjeat2@news.albasani.net>
Source record: 18503
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Dave wrote:

> ...
> http://www.eham.net/forums/Elmers/1574

Uh, yeah, I guess your reference to a dummy load is helpful, in some
other reality ...

Regards,
JS

30. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:48:31 UTC
From: Bob Campbell <bob@bob.bob>
Message-ID: <KJCdnVRu1dr8y8DUnZ2dnUVZ_jSdnZ2d@supernews.com>
Source record: 18504
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"John Smith" <assemblywizard@gmail.com> wrote in message
news:gjjjfjeat2@news.albasani.net...
> Dave wrote:
>
>> ...
>> http://www.eham.net/forums/Elmers/1574
>
> Uh, yeah, I guess your reference to a dummy load is helpful, in some other
> reality ...

I was just happy to see someone in that thread pop up with the warning about
PCBs in old transformer oil. I couldn't believe someone said they actually
got power company transformer oil!

31. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:49:11 UTC
From: ltdoc@yahoo.com
Message-ID: <1d58221f-1db3-4b09-b8d3-9533b3fd5ea0@w39g2000prb.googlegroups.com>
Source record: 18505
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Transformer oil.

Try your local power company. typically they will either sell it to you, or, sometimes when they find out that you only need a gallon or so, they'll just give it to you. Mine did.
- 'Doc

32. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-01 23:58:20 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjjlbngef1@news.albasani.net>
Source record: 18506
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

ltdoc@yahoo.com wrote:
> Transformer oil.
>
> Try your local power company. typically they will either sell it to
> you, or, sometimes when they find out that you only need a gallon or
> so, they'll just give it to you. Mine did.
> - 'Doc

No one knows about silicone oils? Break down is a few hundreds of
degrees, good thermal conductivity, ... benign to all components,
including any gaskets, I can possibly think of, etc. Also, if you are
into health/toxic concerns, purchase a food grade ...

Regards,
JS

33. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 01:12:19 UTC
From: funkbastler <nobody@nowhere.somewhere.us>
Message-ID: <beqql4lipu9innteove4lcr5s0bdavguoa@4ax.com>
Source record: 18507

On Thu, 1 Jan 2009 15:49:11 -0800 (PST), ltdoc@yahoo.com wrote:

>
>Transformer oil.
>
>Try your local power company. typically they will either sell it to
>you, or, sometimes when they find out that you only need a gallon or
>so, they'll just give it to you. Mine did.
> - 'Doc

You still on West Madison?

--
-fb-

34. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 02:17:56 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <8b85620a-6fdd-43d8-9cf2-65862babc204@n21g2000vba.googlegroups.com>
Source record: 18508
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave
Body handling: HTML body converted to readable text

On Jan 1, 6:48 pm, "Bob Campbell" wrote:
> "John Smith" wrote in message
>
> news:gjjjfjeat2@news.albasani.net...
>
> > Dave wrote:
>
> >> ...
> >>http://www.eham.net/forums/Elmers/1574
>
> > Uh, yeah, I guess your reference to a dummy load is helpful, in some other
> > reality ...
>
> I was just happy to see someone in that thread pop up with the warning about
> PCBs in old transformer oil. I couldn't believe someone said they actually
> got power company transformer oil!

Nothing wrong with PoCo oil. They havent used PCBs in years. We use
the same stuff at work made by Shell . Its just mineral oil with a few
additives.

Jimmie

35. Prada shoes (paypal payment)www.king-trade.cn)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 02:19:44 UTC
From: wholesalegk@163.com
Message-ID: <354ba2f7-d7bb-4531-a46e-408821d8b706@o4g2000pra.googlegroups.com>
Source record: 18509
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

Footwear (paypal payment)www.king-trade.cn)
Paul Smith shoes
Jordan shoes
Bape shoes
Chanel shoes (paypal payment)www.king-trade.cn)
D&G shoes
Dior shoes
ED hardy shoes
Evisu shoes
Fendi shoes (paypal payment)www.king-trade.cn)
Gucci shoes `
Hogan shoes (paypal payment)www.king-trade.cn)
Lv shoes
Prada shoes (paypal payment)www.king-trade.cn)
Timberland shoes
Tous shoes
Ugg shoes (paypal payment)www.king-trade.cn)
Ice bream shoes
Sebago shoes (paypal payment)www.king-trade.cn)
Lacoste shoes
Air force one shoes (paypal payment)www.king-trade.cn)
TODS shoes
AF shoes

Footwear (paypal payment)www.king-trade.cn)
Paul Smith shoes
Jordan shoes
Bape shoes
Chanel shoes (paypal payment)www.king-trade.cn)
D&G shoes
Dior shoes
ED hardy shoes
Evisu shoes
Fendi shoes (paypal payment)www.king-trade.cn)
Gucci shoes
Hogan shoes (paypal payment)www.king-trade.cn)
Lv shoes
Prada shoes (paypal payment)www.king-trade.cn)
Timberland shoes
Tous shoes
Ugg shoes (paypal payment)www.king-trade.cn)
Ice bream shoes
Sebago shoes (paypal payment)www.king-trade.cn)

Lacoste shoes
Air force one shoes (paypal payment)www.king-trade.cn)
TODS shoes
AF shoes

Footwear (paypal payment)www.king-trade.cn)
Paul Smith shoes
Jordan shoes
Bape shoes
Chanel shoes (paypal payment)www.king-trade.cn)
D&G shoes
Dior shoes
ED hardy shoes
Evisu shoes
Fendi shoes (paypal payment)www.king-trade.cn)
Gucci shoes
Hogan shoes (paypal payment)www.king-trade.cn)
Lv shoes
Prada shoes (paypal payment)www.king-trade.cn)
Timberland shoes
Tous shoes
Ugg shoes (paypal payment)www.king-trade.cn)
Ice bream shoes
Sebago shoes (paypal payment)www.king-trade.cn)
Lacoste shoes
Air force one shoes (paypal payment)www.king-trade.cn)
TODS shoes
AF shoes

36. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 02:21:15 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <30819b23-1e00-421f-8921-ae1b0184d0d6@v15g2000vbb.googlegroups.com>
Source record: 18510

On Jan 1, 8:12 pm, funkbastler <nob...@nowhere.somewhere.us> wrote:
> On Thu, 1 Jan 2009 15:49:11 -0800 (PST), lt...@yahoo.com wrote:
>
> >Transformer oil.
>
> >Try your local power company. typically they will either sell it to
> >you, or, sometimes when they find out that you only need a gallon or
> >so, they'll just give it to you. Mine did.
> > - 'Doc
>
> You still on West Madison?
>
> --
> -fb-

I usually come across about 70 gallons of used oil every couple of
years but I dont have any now. I may have some by July.

Jimmie

37. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 02:34:54 UTC
From: Bob Campbell <bob@bob.bob>
Message-ID: <lbmdnd_HSeT94MDUnZ2dnUVZ_qDinZ2d@supernews.com>
Source record: 18511
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:8b85620a-6fdd-43d8-9cf2-65862babc204@n21g2000vba.googlegroups.com...

>Nothing wrong with PoCo oil. They havent used PCBs in years. We use
>the same stuff at work made by Shell . Its just mineral oil with a few
>additives.

That's good to know.

38. Antenna Handbook [USMC] # MCRP 3-40.3C -was- Look What I Found

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 02:46:46 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <188b6370-6532-40d8-bb5c-8fc47e9b6e32@s1g2000prg.googlegroups.com>
Source record: 18512
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Dec 31 2008, 7:27 am, Dave <d...@dave.dave> wrote:
- www.zerobeat.net/r3403c.pdf
.
Antenna Handbook [USMC] # MCRP 3-40.3C
www.zerobeat.net/r3403c.pdf
* Formerly Marine Corps Reference Publication
(MCRP) 6-22D "Antenna Handbook"
* For all personnel desiring information about
Antenna Fundamentals.
* Approx 165+ Pages in PDF File
.

39. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 02:47:58 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjjv93raq1@news.albasani.net>
Source record: 18513
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

John Smith wrote:

> ...
> No one knows about silicone oils? Break down is a few hundreds of
> degrees, good thermal conductivity, ... benign to all components,
> including any gaskets, I can possibly think of, etc. Also, if you are
> into health/toxic concerns, purchase a food grade ...
>
> Regards,
> JS

Actually, I don't know why anyone would use or suggest the use of
anything but silicone.

You can tear the case off your TV/radio, sit the chassis down in an
aquarium full of the stuff, turn it on and watch it! Pull it out,
remove the silicone, put it back in its' case and expect it to go to
live expectancy, or beyond ...

Try that with anything else ...

Regards,
JS

40. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 02:50:41 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjjve2raq2@news.albasani.net>
Source record: 18514
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

John Smith wrote:

> ...
> Actually, I don't know why anyone would use or suggest the use of
> anything but silicone.
>
> You can tear the case off your TV/radio, sit the chassis down in an
> aquarium full of the stuff, turn it on and watch it! Pull it out,
> remove the silicone, put it back in its' case and expect it to go to
> live expectancy, or beyond ...
>
> Try that with anything else ...
>
> Regards,
> JS

Indeed, if you are using food grade, you might be able to take a
tablespoon or two for constipation--heck, a few here could use that ...
ROFLOL

Regards,
JS

41. Re: Wire Receiving Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 03:32:18 UTC
From: Richard Knoppow <dickburk@ix.netcom.com>
Message-ID: <8KqdnUQWc5VWF8DUnZ2dnUVZ_hmdnZ2d@earthlink.com>
Source record: 18515

"Spin" <noemail@alone.invalid> wrote in message
news:lhI6l.2216$Es4.1832@nwrddc01.gnilink.net...
> Is it possible to construct a random length receiving
> antenna by capactive loading it thru a window? Both sides
> of the window with a glued sheet of copper & random length
> of wire soldered to the outside copper with a strain
> relief. Inside copper soldered to wire which is connected
> to a matching unit. Or two sheets of copper on both sides
> of a window so that i can use coax or ladder line? What
> about the feasability of inductive loading in the same
> manner?
A random wire receiving antenna is quite non-critical.
It possible to get adequate coupling by pasting aluminum
foil on both sides of a glass window. If you want to
calulate the capacitance the approximate formula is quite
simple:

C = 0.224 KA/d (n-1)

Where

C is capacitance in uuf
K is dielectric constant of the material. For window glass
this is about 8.0
A is the area of _one_ plate in inches squared
d is the separation between the plates un inches.
n is the number of plates.

Typical window glass is about 1/8th inch thick.

For a 10 inch square on both sides (it can be round if
you prefer) the capacitance is about 22.5 uuf, for a 15"
square its about .003 uf, the capacitance increases with the
area so it goes up pretty fast as the linear dimensions are
increased.

A foot square should give you enough coupling for an
all-wave antenna. Remember than singnal strength at
broadcast frequencies is likly to be high so a smaller cap
may be an advantage.
You definitely do NOT need copper plate, plain aluminum
wrap will do nicely. It can be pasted on the glass with
spray adhesive but keep in mind that you probably will want
to remove it some day so peel off adhesive might be a good
idea. This can be obtained in art supply or photographic
supply places. If you are in an area where the outside is

subjected to bad weather, for instance, very cold
temperatures or a lot of moisture, you might need to use a
more permanent adhesive.
You can fasten the wires to the aluminum with an
aligator clip on either side. Leave an un-cemented strip for
this.
Of course, the wire should have some sort of strain
relief since it will just tear off the aluminum foil.
For transmitting one can use a similar trick but its
not so simple.

--

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix.netcom.com

42. QSL.Net and QTH.Net Announcement ~ 73 - Al Waller [K3TKJ]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 03:34:33 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <14547f09-c37d-4eca-b229-da8db7934c63@w1g2000prk.googlegroups.com>
Source record: 18516
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.info,rec.radio.swap

```
QSL.Net and QTH.Net Announcement ~ 73 - Al Waller [K3TKJ]
http://www.qsl.net/index.html
.
QSL.Net and QTH.Net "Server Migration Update"
-from- Scott [KA9FOX]
http://www.qsl.net/index.html
.
~ RHF
.
```

43. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 04:39:35 UTC
From: JB <nospam@goofball.net>
Message-ID: <bUg7l.2745$Es4.2230@nwrddc01.gnilink.net>
Source record: 18517
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Way too inductive. The MFJ is a steal at $50

44. Re: 2m tvi stub

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 05:03:05 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <geh7l.65347$ly1.20520@newsfe19.iad>
Source record: 18518

======= FOLLOW-UP ====== FOLLOW-UP =======

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
news:fIk6l.46558$Uk3.3761@newsfe10.iad...
>
> Open quarter wave, shorted half wave. I don't know which is better.
> Remember to shorten the stub length by the velocity factor of the coax.

< snip >

I bought a "Midband Trap" from a TV
> shop downtown which fixed things. It went inline and attenuated those
> non-TV signals between (approx) 120 - 170 MHz.

I have good and bad news to add:

Last night I built some stubs with TV coax and BNC T-connectors. I swept them with a spec-an/tracking-generator. I could produce a nice 2m notch with one stub and (by careful trimming) a nice bandstop filter with two stubs, separated by an intermediate length of cable. There was some ripple in the passband, probably due to impedance discontinuities. That's the good news.

The bad news is that there was also loss at freqs for UHF channels 14, 15 & 16, as well as Channels 45 and up. (If your building had separate antennas for VHF and UHF, this effect could probably be avoided. You trap the VHF antenna cable, then join the separate U/V antennas at the amp input. Maybe the amp has provision for separate VHF & UHF antenna inputs. Many do.)

Back to good news: My junkbox contained a midband trap, a Winegard BRF-170 which I put in line and found it to be near-perfect. Stopband between 120 and 160 (about 25 dB) with minimal effect on the passband.

Bad news, http://winegard.com/offair/traps.htm doesn't show the product. I'm still looking.

Good news: I also have a highpass filter, a Pico TTHPF02M. It attenuates everything below 50 MHz, good for what you said might be a 10m EMI problem. I've found recent references to it in other NGs, but no sign of a vendor for exactly that item. News is still OK, as a "filter" search of the Picomacom website switched me directly to a Yahoo purchase website, where they offer a similar product http://yhst-18278607509093.stores.yahoo.net/pico-0145.html. TV highpass filters with cutoff around 50 MHz are fairly common. For a few bucks, try one if you confirm a 10m problem.

I hope this helps.

"Sal"
(KD6VKW)

45. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 05:30:16 UTC
From: Erich <n6fd@mchsi.com>
Message-ID: <IDh7l.451354$TT4.408322@attbi_s22>
Source record: 18519

Jim-NN7K wrote:
> funkbastler wrote:
>> On Thu, 01 Jan 2009 17:41:27 +0000, Dave <dave@dave.dave> wrote:
>>
>>> KC8QJP wrote:
>>>> a crisco can works well
>>>>
>>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>>
>> Where's a good place to find transformer oil (besides at the top
>> of the utility pole outside the house)? Or, what's an acceptable
>> substitute?
>>
>
>
> Mineral Oil (available at your local drug store).

Just be prepared for some strange looks when you purchase a gallon of
mineral oil all at once. :-O

46. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 06:09:28 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <r9i7l.8061$8_3.5582@flpi147.ffdc.sbc.com>
Source record: 18520
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
KC8QJP wrote:
> "Dave" <dave@dave.dave> wrote in message
> news:-6OdnZu6gcrVncDUnZ2dnUVZ_qXinZ2d@earthlink.com...
>> KC8QJP wrote:
>>> a crisco can works well
>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>>
>>
> http://image.lotte.com/lotte/images/goods/007007002/7266434.jpg
>
>
A Crisco can has a plastic top. You want a new paint can with a metal top.

Dave WD9BDZ
```

47. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 06:12:43 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <uci7l.8062$8_3.1730@flpi147.ffdc.sbc.com>
Source record: 18521
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Bob Campbell wrote:
> "John Smith" <assemblywizard@gmail.com> wrote in message
> news:gjjjfjeat2@news.albasani.net...
>> Dave wrote:
>>
>>> ...
>>> http://www.eham.net/forums/Elmers/1574
>>
>> Uh, yeah, I guess your reference to a dummy load is helpful, in some
>> other reality ...
>
> I was just happy to see someone in that thread pop up with the warning
> about PCBs in old transformer oil. I couldn't believe someone said
> they actually got power company transformer oil!

Why should you be surprised about power company oil. They haven't had
PCB's for years. Even the pole pigs have clean (?) oil in them.

Dave WD9BDZ

48. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 06:35:16 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <HAi7l.66162$ly1.49069@newsfe19.iad>
Source record: 18522
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"John Smith" <assemblywizard@gmail.com> wrote in message
news:gjjlbngef1@news.albasani.net...
> ltdoc@yahoo.com wrote:
>> Transformer oil.
>>
>> Try your local power company. typically they will either sell it to
>> you, or, sometimes when they find out that you only need a gallon or
>> so, they'll just give it to you. Mine did.
>> - 'Doc
>
> No one knows about silicone oils? Break down is a few hundreds of
> degrees, good thermal conductivity, ... benign to all components,
> including any gaskets, I can possibly think of, etc. Also, if you are
> into health/toxic concerns, purchase a food grade ...
>
> Regards,
> JS

Silicone oils are excellent from a health standpoint and usually very good from a flammability standpoint. However, the Cantenna relies on natural convection of the oil for cooling and the higher viscosity of commonly available silicone oils will limit the power handling capability of the Cantenna. Remember that the Cantenna must be de-rated when used for long duty cycles, and a high viscosity oil will lower the power rating still more. Also remember that silicone oils are not cheap (and my buddy at Dow would only send me small samples).

I would suggest using modern RF terminations made by Bourns and other companies. These are designed to be bolted to a large heatsink. The CHF9838CNF series is rated for 50 ohms, 250 watts, VSWR below 1.1 from DC to 2.2 GHz. It only costs $27.50 in single lot quantities. I think this is higher than the continuous rating of the Cantenna. I don't know for sure as I disposed of my Cantenna years ago. Digi-Key sells these Bourns terminations if you want one.

I had used transformer oil given to me by the local electric cooperative. I didn't learn until a few years later that the oil was contaminated with Aroclor, a PCB oil. Proper disposal was easy for me as I then worked in the research labs of a major chemical company that had an EPA licensed incinerator specifically rated for PCB destruction. Even so, I had to repackage the oil into special disposal bottles and give the incinerator operators instructions that only one of the bottles could be burned daily. Before anyone asks can they send their oil to me for disposal, I left that company over 10 years ago and am now retired, so the answer will be no.

I did quite a bit of research on trade names of PCB containing oils. In fact, the EPA's list found at http://www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/aroclor.htm is partly a result of my study. About a third of the trade names on this list were unknown to the EPA until I provided them to the Atlanta EPA office.

Barry L. Ornitz, PhD WA4VZQ

49. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 07:45:32 UTC
From: ltdoc@yahoo.com
Message-ID: <7b49fb8d-2bf6-465a-800d-1cd8bcfb155e@k36g2000pri.googlegroups.com>
Source record: 18523

funkbastler,
To the best of my knowledge, yes.
- 'Doc

...I'm afraid to ask...

50. l/2 horizontal dipole vs inverted L 160m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 13:34:49 UTC
From: tzitzikas <tzitzikas.3a40096@radiobanter.com>
Message-ID: <tzitzikas.3a40096@radiobanter.com>
Source record: 18531

i have a transmitter about 150 watt (output an 813 tube 1400vdc) at
1431khz (salonika greece) and the antenna that i'm using is an inverted
L antenna (with a less than 5l/16 length ,about 20m vertical segment and
40m horizontal segment). the coupler that i'm using now is l-type . at
http://www.geocities.com/tzitzikas_ee/antenna.gif you can see a
schematic of my coupler.i am using 3 l/4 length radials and 2 l/8
length radials. the ground system is an copper tube 3m approximate
which is burried vertically to tha ground.the distance between
transmitter and ground system is about 10m
i would like to improve the efficiency of my antenna. i have 3
thoughts
1) to cut the antenna at l/4 length and to use an 50ohm coupler (after
the variable coil i must add a variable capacitor 0-1500pf with the one
point grounded)
2) to use an l/2 horizontal dipole with 50ohm feed line (coaxial RG213
cable) and to use a coupler like one i described above (thought 1)
3) to keep the antenna that i have now.
i dont want to transmit by using the ionosphere cause my transmitter
uses a frequency in the band mw, and at the night my frequency is
filled by stronger signals. i would like to have a local strong signal.

which of the above antennas i have described is the best???????
thanks

--
tzitzikas

51. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 13:42:15 UTC
From: Dave <dave@dave.dave>
Message-ID: <ANmdnWtMMsglhMPUnZ2dnUVZ_tninZ2d@earthlink.com>
Source record: 18524
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

John Smith wrote:
> John Smith wrote:
>
>> ...
>> No one knows about silicone oils? Break down is a few hundreds of
>> degrees, good thermal conductivity, ... benign to all components,
>> including any gaskets, I can possibly think of, etc. Also, if you are
>> into health/toxic concerns, purchase a food grade ...
>>
>> Regards,
>> JS
>
> Actually, I don't know why anyone would use or suggest the use of
> anything but silicone.
>
> You can tear the case off your TV/radio, sit the chassis down in an
> aquarium full of the stuff, turn it on and watch it! Pull it out,
> remove the silicone, put it back in its' case and expect it to go to
> live expectancy, or beyond ...
>
> Try that with anything else ...
>
> Regards,
> JS

The word "overkill" leaps to mind.

52. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 14:00:50 UTC
From: Dave <dave@dave.dave>
Message-ID: <R6KdnVxHBPeOg8PUnZ2dnUVZ_tXinZ2d@earthlink.com>
Source record: 18525
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

NoSPAM wrote:
>
>
> I would suggest using modern RF terminations made by Bourns and other
> companies. These are designed to be bolted to a large heatsink. The
> CHF9838CNF series is rated for 50 ohms, 250 watts, VSWR below 1.1 from
> DC to 2.2 GHz. It only costs $27.50 in single lot quantities. ...Digi-Key sells these
> Bourns terminations if you want one.
>
Thanks, Doc.

That's News I Can Use.

53. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 14:10:37 UTC
From: Dave <dave@dave.dave>
Message-ID: <9sudnfGJeePAvcPUnZ2dnUVZ_obinZ2d@earthlink.com>
Source record: 18526

```
Erich wrote:
> Jim-NN7K wrote:
>> funkbastler wrote:
>>> On Thu, 01 Jan 2009 17:41:27 +0000, Dave <dave@dave.dave> wrote:
>>>
>>>> KC8QJP wrote:
>>>>> a crisco can works well
>>>>>
>>>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
>>>
>>> Where's a good place to find transformer oil (besides at the top
>>> of the utility pole outside the house)? Or, what's an acceptable
>>> substitute?
>>>
>>
>>
>> Mineral Oil (available at your local drug store).
>
> Just be prepared for some strange looks when you purchase a gallon of
> mineral oil all at once. :-O

Is motor oil a conductor?
```

54. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 15:23:15 UTC
From: JB <nospam@goofball.net>
Message-ID: <Djq7l.2631$BC4.1732@nwrddc02.gnilink.net>
Source record: 18527

```
>> Mineral Oil (available at your local drug store).
> >
> > Just be prepared for some strange looks when you purchase a gallon of
> > mineral oil all at once. :-O
>
> Is motor oil a conductor?

Might burn and sludge up your resistor. Lots of additives you just don't
need.

I had a cantenna for 20 years with light mineral oil. there was a little
seepage to the top of the lid through the vent. I actually had transformer
oil but never used it because of the thought of that stuff seeping. It
really is a lot cleaner. Check feed stores, Vet supply stores, paint
stores, hardware. Check this out:
http://www.pugetsystems.com/submerged.php
```

55. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 15:43:17 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <9fedd288-3309-492c-964f-3e09ec5c03a2@s9g2000prm.googlegroups.com>
Source record: 18528

On Jan 2, 10:23 am, "JB" <nos...@goofball.net> wrote:
> >> Mineral Oil (available at your local drug store).
>
>
>
> > > Just be prepared for some strange looks when you purchase a gallon of
> > > mineral oil all at once. :-O
>
> > Is motor oil a conductor?
>
> Might burn and sludge up your resistor. Lots of additives you just don't
> need.
>
> I had a cantenna for 20 years with light mineral oil. there was a little
> seepage to the top of the lid through the vent. I actually had transformer
> oil but never used it because of the thought of that stuff seeping. It
> really is a lot cleaner. Check feed stores, Vet supply stores, paint
> stores, hardware. Check this out:http://www.pugetsystems.com/submerged.php

One mistake I made with a cantenna was letting it sit on a concrete
floor. The bottom of the can rusted through from the outside. The
replacement can got a good coating of zinc chromate primer, followed
wirh red oxide, then acrylic enamel auto paint.

Jimmie

56. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 15:50:17 UTC
From: JB <nospam@goofball.net>
Message-ID: <ZIq7l.2636$BC4.1071@nwrddc02.gnilink.net>
Source record: 18529

One mistake I made with a cantenna was letting it sit on a concrete floor. The bottom of the can rusted through from the outside. The replacement can got a good coating of zinc chromate primer, followed wirh red oxide, then acrylic enamel auto paint.

Jimmie

Mine was always inside and never rusted. I have seen them rust outside though. I put mine in a tray, worrying about seepage getting on the carpet but it would only pool up on the top.

Might be worthwhile to shoot the new can with BBQ paint.

57. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 16:59:14 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjlh53$r5l$1@news.albasani.net>
Source record: 18530
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

NoSPAM wrote:

> ...
> Silicone oils are excellent from a health standpoint and usually very
> good from a flammability standpoint. However, the Cantenna relies on
> natural convection of the oil for cooling and the higher viscosity of
> commonly available silicone oils will limit the power handling
> capability of the Cantenna. Remember that the Cantenna must be de-rated
> when used for long duty cycles, and a high viscosity oil will lower the
> power rating still more. Also remember that silicone oils are not cheap
> (and my buddy at Dow would only send me small samples).
> ...
> unknown to the EPA until I provided them to the Atlanta EPA office.
>
> Barry L. Ornitz, PhD WA4VZQ

Well, yeah ...

However, the last silicone oil I purchased was at an auction. I was a cannery being close, about 2-3 years ago. It was a 5 gal. tin, seems to be about 10w-15w (no zahn cup to even begin guessing viscosity with); it was $20.00, if I remember correctly. (a lucky fluke, I admit, and food grade to boot!)

However, if I had to choose a 2nd, easily available source, and cheap, I would get some pint bottles of 100% silicone spray used for protecting seats, dashboards, panels, etc. in autos. At $1.88 + tax--a pint, a gallon would be under $20.00. And, again, a cheap easily available source to all--without shipping costs ...

Presently, I used the auctioned silicone I purchased, on my car interior, tires, etc. ... lol

You know, if everyone has so many problems in doing the simplest things, makes one wonder what they do when they hit a real snag! <scratches-head>

Regards,
JS

58. Re: Look what I found

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 18:18:28 UTC
From: Richard Knoppow <dickburk@ix.netcom.com>
Message-ID: <ZvadnZyZuacYx8PUnZ2dnUVZ_h6dnZ2d@earthlink.com>
Source record: 18532
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:djanl4pcb90bmmgldjmn2l31ppcp9mb55g@4ax.com...
> On Wed, 31 Dec 2008 09:40:05 -0600, msg
> <msg@_cybertheque.org_> wrote:
>
>>Dave wrote:
>>> www.zerobeat.net/r3403c.pdf
>>
>>FWIW, MCRP 6-22D is also out there (I grabbed it 18 months
>>ago but didn't
>>save the URL); it is pretty much the same thing.
>>Michael
>
> It's at:
> <http://www.armymars.net/ArmyMARS/Antennas/Resources/usmc-antenna-hb.pdf>
>
>
> --
> Jeff Liebermann jeffl@cruzio.com
> 150 Felker St #D http://www.LearnByDestroying.com
> Santa Cruz CA 95060 http://802.11junk.com
> Skype: JeffLiebermann AE6KS 831-336-2558

Thanks for posting these links.
These appear to be nearly identical. According to the
forward in R3403C it is a later edition of MCRP 6-22D. Both
have an error on page 11. In the chart showing surface
conductivity the first two are reversed, that is, sea water
should be marked "excellent" and fresh water "very good" not
the other way as shown. Sea water is considered to be as
close to a "perfect" ground as exists in nature. This error,
and the fact that is was carried over into a later edition,
suggest that the book was not proof read adequately and
there may be other errors, perhaps less obvious. I wonder if
any errata were ever published and if so if they are on line
anywhere.

--

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix.netcom.com

59. Re: l/2 horizontal dipole vs inverted L 160m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 19:18:29 UTC
From: richardharrison@webtv.net
Message-ID: <27512-495E6885-7367@storefull-3173.bay.webtv.net>
Source record: 18533

Tzitzikes wrote:
"Whitch of the above antennas I have described is the best?"

At 1431 KHz, you need vertical polarization to avoid ionospheric propagation.

You can turn your inverted L into a T by connecting its vertical part to the exact center of the horizontal part. Horizontal currents in the capacitive hat will then be equal and in opposite directions and not rafiate. The capacitive hat should be just as effective in loading the vertical section as the horizontal part of your inverted L is but unlike the L, the T should not radiate any horizontally polarized energy. There should be no change needed in your tuning coil and capacitor.

Best regards, Richard Harrison, KB5WZI

60. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 20:36:17 UTC
From: Billy Burpelson <billy@burpelsonafb.net>
Message-ID: <5Vu7l.12384$be.6888@nlpi061.nbdc.sbc.com>
Source record: 18534
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Barry L. Ornitz, PhD WA4VZQ wrote:

>> Silicone oils are excellent from a health standpoint...

John Smith wrote:

> However, the last silicone oil I purchased was at an auction... and
> food grade to boot!)

I am a bit puzzled. IIRC, the silicone in women's breast implants would/could/did leak and cause fairly serious health problems. Yet, Dr. Ornitz says "Silicone oils are excellent from a health standpoint" and Mr. Smith says: "food grade".

Could anyone take a shot at explaining this apparent dichotomy?

Inquiring minds want to know.

61. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 21:36:57 UTC
From: RF BURNS <rfburns422@yahoo.com>
Message-ID: <495e88fe$0$17069$6e1ede2f@read.cnntp.org>
Source record: 18535
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"KC8QJP" <KC8QJP@yahoo.com> wrote in message
news:495cdbce$0$589$c5fe31e7@reader.usenet4all.se...
>a crisco can works well
>
http://www.radiobanter.com/showpost.php?p=130773&postcount=1

62. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 21:40:12 UTC
From: Dave <noone@nowhere.com>
Message-ID: <0Rv7l.2985$Es4.1386@nwrddc01.gnilink.net>
Source record: 18536
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
"RF BURNS" <rfburns422@yahoo.com> wrote in message
news:495e88fe$0$17069$6e1ede2f@read.cnntp.org...
>
> "KC8QJP" <KC8QJP@yahoo.com> wrote in message
> news:495cdbce$0$589$c5fe31e7@reader.usenet4all.se...
>>a crisco can works well
>>
> http://www.radiobanter.com/showpost.php?p=130773&postcount=1
>

leave the crisco in it and after tuning up you can fry your dinner!
```

63. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 22:05:56 UTC
From: Gerald Simonowits <jerseyj@superlink.net>
Message-ID: <jerseyj-0AAC78.17055602012009@cpe-76-190-186-198.neo.res.rr.com>
Source record: 18537

In article <IDh7l.451354$TT4.408322@attbi_s22>, Erich <n6fd@mchsi.com>
wrote:

> Jim-NN7K wrote:
> > funkbastler wrote:
> >> On Thu, 01 Jan 2009 17:41:27 +0000, Dave <dave@dave.dave> wrote:
> >>
> >>> KC8QJP wrote:
> >>>> a crisco can works well
> >>>>
> >>> http://www.mfjenterprises.com/Product.php?productid=MFJ-250X
> >>
> >> Where's a good place to find transformer oil (besides at the top
> >> of the utility pole outside the house)? Or, what's an acceptable
> >> substitute?
> >>
> >
> >
> > Mineral Oil (available at your local drug store).
>
> Just be prepared for some strange looks when you purchase a gallon of
> mineral oil all at once. :-O

yup, that's what I used when I got my ticket many years ago to fill up
my cantenna. Still have it in the closet but haven't used it in years!

64. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 22:16:53 UTC
From: "Kenneth P. Stox" <stox@sbcglobal.net>
Message-ID: <qnw7l.16641$ZP4.3259@nlpi067.nbdc.sbc.com>
Source record: 18538
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Billy Burpelson wrote:
>
> Barry L. Ornitz, PhD WA4VZQ wrote:
>
>>> Silicone oils are excellent from a health standpoint...
>
> John Smith wrote:
>
>> However, the last silicone oil I purchased was at an auction... and
>> food grade to boot!)
>
>
> I am a bit puzzled. IIRC, the silicone in women's breast implants
> would/could/did leak and cause fairly serious health problems. Yet, Dr.
> Ornitz says "Silicone oils are excellent from a health standpoint" and
> Mr. Smith says: "food grade".
>
> Could anyone take a shot at explaining this apparent dichotomy?
>
> Inquiring minds want to know.

There are plenty of things that are inert when passing through the gut
that will be lethal if introduced directly into the body.

65. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 23:11:01 UTC
From: kb9rqz@yahoo.com
Message-ID: <138ql4luv2bhv96ol4uar02l5hodsivdab@4ax.com>
Source record: 18539
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

66. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 23:42:37 UTC
From: Allodoxaphobia <bit-bucket@config.com>
Message-ID: <slrnglt9jd.1hjp.bit-bucket@shell.config.com>
Source record: 18540
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
On Fri, 02 Jan 2009 15:36:17 -0500, Billy Burpelson wrote:
>
> I am a bit puzzled. IIRC, the silicone in women's breast implants
> would/could/did leak and cause fairly serious health problems. Yet, Dr.
> Ornitz says "Silicone oils are excellent from a health standpoint" and
> Mr. Smith says: "food grade".
>
> Could anyone take a shot at explaining this apparent dichotomy?

Plaintiffs' lawyers and defendants' lawyers....
```

67. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-02 23:44:22 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjm8sn$u2g$1@news.albasani.net>
Source record: 18541
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Billy Burpelson wrote:

> ...
> I am a bit puzzled. IIRC, the silicone in women's breast implants
> would/could/did leak and cause fairly serious health problems. Yet, Dr.
> Ornitz says "Silicone oils are excellent from a health standpoint" and
> Mr. Smith says: "food grade".
>
> Could anyone take a shot at explaining this apparent dichotomy?
>
> Inquiring minds want to know.

A friend of mine, in the medical profession, once told me there is only
3 things she knew of which the body would "tolerate" as implant
materials: teflon/nylon, glass, and some grades of stainless steel ...

I don't know, but seems like diamond would be ok, doesn't it? Others
substances? Perhaps she was only speaking of the materials she has
seen, next time I see her, I will ask ... you have me curious now.

Regards,
JS

68. Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 00:31:08 UTC
From: david@drumheller.org
Message-ID: <4fdb82fb-49e4-4989-b520-3149b236d20c@k19g2000yqg.googlegroups.com>
Source record: 18542

I've been using 4Nec2, a freeware antenna modeling program based on NEC-2 (Numerical Electromagnetic Code). I'm wondering if anyone could provide some insight as to just how it models current at the ends of wires that are not connected to anything (a.k.a. "free ends" or "open ends").

Does NEC-2 model "end caps" at free ends, which is equivalent to assuming wires are solid, or does it just set the current equal to zero at the free ends, which is equivalent to assuming wires are hollow? Is it possible that it does both, but the specific model is determined by the choice of computational kernel (extended vs. standard)?

I've tried looking through some of the NEC-2 documentation, but I can't find a definitive answer.

-Dave, K3WQ

69. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 00:59:03 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <f72tl4l7ce33ghub32ugpcslpg12rhi86f@4ax.com>
Source record: 18543

On Wed, 31 Dec 2008 08:50:28 -0800 (PST), jimlux@earthlink.net wrote:

>On Dec 23, 12:39 pm, Richard Clark <kb7...@comcast.net> wrote:
>> Nothing astonishes me more than the simple dash-off notes that claim
>> power measurement is a snap. I can well imagine, Jim, that you don't
>> do these measurements with traceability to the limits you suggest.
>>
>In point of fact, I *do* make measurements like that,

I note you slip loose from the constraint of "traceability." Doing measurements "like that" is vastly different in outcome and holds accuracy claims like a sieve holds water.

moving on to some very telling points offered in rebuttal to obtaining 0.1dB accurate power determinations:
>... it *is* within the reach of someone at home with a lot of
>time and care to substitute for expensive gear and calibrations
>(basically, you have to do your own calibration).
And again with:
> (back in the 40s, one built one's physics experimental gear and calibrated it yourself)
where both reveal a disastrously circular logic of what could only be called "self determination" with a very tenuous grasp to accuracy.

It is pleasing to the Ham community to appeal to self reliance, and construction projects, but this doesn't bootstrap accuracy. I can see any number of gaping holes where standards are lacking and ignored entirely.

Yes, it is both commendable and achievable to obtain precision (or its half-brother, resolution), but this is not the absolute accuracy of a 0.1dB power determination.

>Standard power measuring head on a Agilent power meter is better than
>5% at HF, probably in the range of 1% for one head in comparison
>measurements over a short time. The 8902 is sort of a special case,
>but can do very accurate relative measurements. FWIW, the 8902
>calibrates out the measurement head effects.

I have already cited accuracies and errors that conflict with your supposition. You are taking characteristics in isolation and citing them as being representative of the whole scope of determination of power to a stated accuracy. The single example of your stating:
> probably in the range of 1% for one head in comparison
>measurements over a short time.
is relative accuracy, not absolute accuracy, and the relative accuracy point is arguable by your own language of "probably." Probability is

expressed in numbers in Metrology. Basically you have injected an
additional error into the mix. In my short recitation of the
accumulation of error, I omitted this discussion as your original
off-hand statement was far outweighed by the preponderance of error
from a single common example. I chose to allow the cited literature
to describe the complete formal METHOD of determination to reveal the
full scope of accumulations of error rather than recite them here.

>> Scale error demands a full-scale indication to simple keep the error
>> contribution down to 0.1% (a 1/10th scale indication would jump that
>> error to 1%) ï¿½1 digit.
>This oversimplifies a bit.

I fail to see how this "simplicity" constitutes an objection that
nullifies the accumulation of errors.

> the real limiting factor is the accuracy with which you
>know the attenuation of the attenuators you're using to get the steps.

And that too has been covered.

>With regard to mismatch, if you're interested in tenth dB accuracies,

I am interested in tenth dB accuracy, aren't you? Let's recall where
this began:
>>On Tue, 23 Dec 2008 10:29:05 -0800, Jim Lux <james.p.lux@jpl.nasa.gov> wrote:
>>
>>>At HF and VHF, you should be able to do
>>>power measurements to a tenth of a dB, with moderate care.

This statement has now been dismissed by your inclusion (supporting my
observation) of mismatch error - which you subsequently diminish:

>you're going to have to measure the mismatch and account for it. It's
>not that hard, just tedious.

Accounting for mismatch does not correct it. The error it contributes
remains. This is not an actuarial gimmick of Enron bookkeeping. The
off-hand hard/tedious baggage appears to be another objection without
substance.

>The typical power meter head doesn't change it's Z very much,

And yet it still is NOT the Z you would like it to be, except by some
margin of error. Change is not the issue, absolute value is. This
appears to be yet another manufactured objection that points out error
only to dismiss it with a cavalier diminution of "very much."
Metrology doesn't accept adjectives in place of measurables.

Let's return to the claim, however. In fact, a typical power meter
head DOES change its Z, and it is by this very physical reality that
it performs power determination. You may be relying on a specific and
rather atypical head to support your argument. As you offer nothing
in the way of your typical head's design to support another off-hand

comment, we will have to wait for that coverage.

>so once you've measured YOUR head and keep
>the data around, you're good to go for the future. (and do your tests
>at the same temperature, don't use the head for a door stop, etc.)

No, you do not make traceable measurements. Your statement of futurity is an illusion only. Within the context of HP's fine craftsmanship, it is a fairly safe illusion, but not into the unlimited future. The calibration cycle for an RF head AND its reference source (two sources of error) is 3 to 6 months where that calibration data would be amended and changed to follow the natural variation in characteristics. A skilled bench tech might trust the instrument out for several years for relative loss measurements, but absolute power determinations will have long lost their credentials.

If you don't care for the credentials of absolute power determination, then you shouldn't be arguing the precision of accuracy.

There is a world of difference between absolute and relative accuracy.

>As far as calculating uncertainties.. you bet.. it's not just stacking
>em up. But that's true of ANY precision measurement, so if one is
>quoting better than half dB numbers (i.e. if you give any digits to
>the right of the decimal point) one should be able to back it up with
>the uncertainty analysis (which is all described on the NIST website
>and in the tech notes). This isn't hard, it's just tedious.

This repetition of the hard/tedious mantra has the odd appearance of an objection diminishing the importance of established procedures of power determination. It reduces the profession of precision electronics to the repetitive motions of a trained monkey.

By their parts, hard and tedious, the METHODS of making accurate power determination may lend that appearance to the unskilled worker. The METHODS of making accurate power determination have a minimum architecture that defines the limits of accuracy. The METHODS of making accurate power determination have a minimum number of steps to keep error low. Substituting a lot of architecture and adding a lot of steps necessarily increases error. The optimum METHOD and the ad-hoc method may each appear to be simple but tedious, but the quality of their results, and hence their accuracy, are not equal by that crude metric of adjectives. Throwing more gear and procedure that is freely available (rather than as costly necessary) at the problem, compounds error outrageously.

To suggest that the HP8902 can be replaced by the combination of accumulated obsolete gear and elbow grease invites profound problems if you don't know the limitation of the METHOD. The so-called "hard and tedious" part of it contains a considerable body of knowledge and experience. I have never encountered its discussion in this group beyond these two adjectives and few correspondents rarely belly up to the bench to even measure Q (which has its own body of instruction).

>But the
>whole thing about high quality amateur measurements is you're trading
>off your time to do tedious extra measurements and analysis in
>exchange for not sending a cal-lab a check.

This, again, is an appeal to substituting just-plain-hard-work for accuracy. You fail to show any correlation to standards or their necessity. The effort you describe may well pay off in superlative precision; again, investing in resolution without paying for the cost of accuracy.

>The how to do it is all out there. What was "state of the art" for a
>national laboratory in 1970 is fairly straightforward garage work
>these days, and, a heck of a lot easier because you've got inexpensive
>automation for making the measurements and inexpensive computer power
>for doing the calibration calculations and uncertainty analysis.

This is nothing more than sentimentality.

>The slide 36 discussion refers to measuring a signal at -110dBm, which
>I would venture to say is well below the levels that most hams will be
>interested in measuring. And, they are talking about where the source
>Z is unconstrained. In a typical ham situation, these things probably
>aren't the case.

This appears to be yet another objection: "probably aren't the case."

The METHOD dominates power determination accuracy. This is a fact of life. The METHOD mandates the level at which it will be measured. This is not about personal choice and preferences. More than several instances offered in the reference as an example of error analysis is described as a "special case." I see none in the literature that returns us to a sample antenna in an high power RF field, but I see plenty of METHODS that very nearly approximate it, and substantiate considerable (compared to 0.1dB) accumulations of error.

>If you were interested in measuring, for instance,
>the loss of a piece of coax or the output of a 0dBm buffer amplifier
>to a tenth of a dB, that's a whole lot easier than a -110dBm signal
>from some probe into a 8902. The context of this discussion was
>making measurements of antennas, and for that, one can normally
>arrange to have decent signal levels, etc. OR, one is interested in
>relative measurements, rather than absolute calibration. It's a whole
>lot easier to measure a 0.1 dB difference between two signals.

This was your choice of instrumentation; this was your choice of power determination. I have provided an incontrovertible example of how your off-hand assertion failed from your own choices. It doesn't get remarkably better however you decide to amend the conditions and those amendments certainly won't come close to your original off-hand observation of power determination of 0.1dB or less error.

For my simple analysis, I accepted your choice of instrument, I selected the optimal power level, I had to infer your choice of band -

selected to favor you in the least error. I then compounded the errors with a generous choice towards the LESSER RSS error that still resolved to more than 0.1dB error in power determination. This encompassed nothing other than the Instrument without discussion of the necessary components that supported the mystery power coming from the antenna in question. Their inclusion could have been fudged outrageously to devastate the 0.1dB power determination by huge leaps. I chose, instead, to travel a different path seeing that no one was going to embrace that tar baby.

The analysis in Slide 36 illustrates a more complete METHOD and you complain of range. It is but one of many METHODS. This METHOD encompasses the entire scope of determination, and METHOD defines the limits of accuracy. You have not offered us a better METHOD that thus reduces the limits of accuracy to 0.1dB power determination or better as your off-hand comment promised.

* * * * * * * * * * * * * * *

At this point, as an aside, I will offer some subtle, but important definitions from the field of Metrology that weigh heavily on making highly resolved, precise, accurate measurements. First off, those very words I ended the last sentence with (and more):

Resolution - this is the number of digits in your determination.

Precision - this is also the resolution, but to the extent that it is repeatable. If you take 10 measurements of power and get readings that repeat for only 2 of the 7 digits of resolutions you have, your precision is only 3 places at best. Resolution does not equal quality. Basically, the remaining 4 places of resolution are noise and their display is added for the entertainment of intellectual tourists who do not understand science.

Accuracy - this is precision, but only where it agrees with actual value. That is to say, you can successfully get 10 measurements that repeat their determinations to 0.5%, and yet be 100% off of the actual value. Your resolution is 0.1ppm, your precision is 1% and your accuracy may be -50+100% The resolution is now certified crapola.

Relative Accuracy - this is the same as the accuracy statement above, where you are comparing two measurables (two different powers, which then becomes attenuation). It is typically the accuracy of ratios and substitution. It is easier to achieve to higher resolution and your standard need not be traceable, but it should be stable. If you don't care what the actual value is, but only how much it changed, you may find you can claim 0.1ppm error (insofar as this measurement is repeatable to the same digit). There is a large body of instrumentation that so qualifies.

Absolute Accuracy - this is the same as Relative Accuracy against a known standard. It is typically the accuracy of determining an unknown against a physical or electrical standard such as the Ampere,

Volt, Farad, Meter (and so on), and by abstraction, Power (you have to measure two things where the accuracy has to degrade by virtue of additional variables).

Some may appeal that their Relative Accuracy has the merit of Absolute Accuracy - until you ask them to measure the actual, absolute value of their ad-hoc standard. I have built primary standards and measured them to 7 places. Over several years they migrated in value by 2 of those least significant digits, but only in comparison to standards that had "aged" and been calibrated at a national primary standards laboratory. By themselves, I could have fooled myself (and perhaps others less sophisticated) that they were absolutely accurate to the extent of the number of digits my instruments could resolve.

73's
Richard Clark, KB7QHC

70. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 01:12:55 UTC
From: Billy Burpelson <billy@burpelsonafb.net>
Message-ID: <sYy7l.12685$YU2.8434@nlpi066.nbdc.sbc.com>
Source record: 18544
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

> Billy Burpelson wrote:
>>
>> Barry L. Ornitz, PhD WA4VZQ wrote:
>>
>>>> Silicone oils are excellent from a health standpoint...
>>
>> John Smith wrote:
>>
>>> However, the last silicone oil I purchased was at an auction... and
>>> food grade to boot!)
>>
>>
>> I am a bit puzzled. IIRC, the silicone in women's breast implants
>> would/could/did leak and cause fairly serious health problems. Yet,
>> Dr. Ornitz says "Silicone oils are excellent from a health standpoint"
>> and Mr. Smith says: "food grade".
>>
>> Could anyone take a shot at explaining this apparent dichotomy?
>>
>> Inquiring minds want to know.

Kenneth P. Stox wrote:

> There are plenty of things that are inert when passing through the gut
> that will be lethal if introduced directly into the body.

And swallowing something is -not- being "introduced directly into the
body"? I would have thought otherwise...

71. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 01:14:34 UTC
From: Billy Burpelson <billy@burpelsonafb.net>
Message-ID: <_Zy7l.12686$YU2.7375@nlpi066.nbdc.sbc.com>
Source record: 18545
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

> "RF BURNS" <rfburns422@yahoo.com> wrote in message
> news:495e88fe$0$17069$6e1ede2f@read.cnntp.org...
>> "KC8QJP" <KC8QJP@yahoo.com> wrote in message
>> news:495cdbce$0$589$c5fe31e7@reader.usenet4all.se...
>>> a crisco can works well
>>>
>> http://www.radiobanter.com/showpost.php?p=130773&postcount=1

Dave wrote:

> leave the crisco in it and after tuning up you can fry your dinner!

...and fry your arteries with all the cholesterol!

72. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 01:30:24 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjmf3f$57a$2@news.albasani.net>
Source record: 18546
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Billy Burpelson wrote:

> ...
> And swallowing something is -not- being "introduced directly into the
> body"? I would have thought otherwise...

I mean, "Come on!" You have to ask that?

A hypodermic needles injection is "directly." A swallowed substance is directly introduced into the digestive tract, where it is the assimilated into the blood ...

Another example? A bullet from a gun is "directly" introduced into the body, a swallowed bullet is not ...

Regards,
JS

73. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 01:44:58 UTC
From: Dave <noone@nowhere.com>
Message-ID: <uqz7l.3035$Es4.2496@nwrddc01.gnilink.net>
Source record: 18547

<david@drumheller.org> wrote in message
news:4fdb82fb-49e4-4989-b520-3149b236d20c@k19g2000yqg.googlegroups.com...
> I've been using 4Nec2, a freeware antenna modeling program based on
> NEC-2 (Numerical Electromagnetic Code). I'm wondering if anyone could
> provide some insight as to just how it models current at the ends of
> wires that are not connected to anything (a.k.a. "free ends" or "open
> ends").
>
> Does NEC-2 model "end caps" at free ends, which is equivalent to
> assuming wires are solid, or does it just set the current equal to
> zero at the free ends, which is equivalent to assuming wires are
> hollow? Is it possible that it does both, but the specific model is
> determined by the choice of computational kernel (extended vs.
> standard)?
>
> I've tried looking through some of the NEC-2 documentation, but I
> can't find a definitive answer.
>
> -Dave, K3WQ

the only one who would care about that is art who believes that current
flows back down the inside of the conductor. for the rest of us an end of a
wire is an end of a wire... the difference in capacitance from a filled end
to a hollow tube, unless the diameter of the hollow tube is a good fraction
of a wavelength should be negligible.

74. Re: Look what I found

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 02:26:49 UTC
From: Dave <dave@dave.dave>
Message-ID: <tdidndvlEvl0UcPUnZ2dnUVZ_sUAAAAA@earthlink.com>
Source record: 18548
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Richard Knoppow wrote:
> "Jeff Liebermann" <jeffl@cruzio.com> wrote in message
> news:djanl4pcb90bmmgldjmn2l31ppcp9mb55g@4ax.com...
>> On Wed, 31 Dec 2008 09:40:05 -0600, msg
>> <msg@_cybertheque.org_> wrote:
>>
>>> Dave wrote:
>>>> www.zerobeat.net/r3403c.pdf
>>> FWIW, MCRP 6-22D is also out there (I grabbed it 18 months
>>> ago but didn't
>>> save the URL); it is pretty much the same thing.
>>> Michael
>> It's at:
>> <http://www.armymars.net/ArmyMARS/Antennas/Resources/usmc-antenna-hb.pdf>
>>
>>
>> --
>> Jeff Liebermann jeffl@cruzio.com
>> 150 Felker St #D http://www.LearnByDestroying.com
>> Santa Cruz CA 95060 http://802.11junk.com
>> Skype: JeffLiebermann AE6KS 831-336-2558
>
> Thanks for posting these links.
> These appear to be nearly identical. According to the
> forward in R3403C it is a later edition of MCRP 6-22D. Both
> have an error on page 11. In the chart showing surface
> conductivity the first two are reversed, that is, sea water
> should be marked "excellent" and fresh water "very good" not
> the other way as shown. Sea water is considered to be as
> close to a "perfect" ground as exists in nature. This error,
> and the fact that is was carried over into a later edition,
> suggest that the book was not proof read adequately and
> there may be other errors, perhaps less obvious. I wonder if
> any errata were ever published and if so if they are on line
> anywhere.
>
>
I too have noticed some slop and errors. No doubt produced by cost plus
civilian contractors.

75. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 03:41:26 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <1f6c0d0c-3849-462a-918c-c02817328dc9@q26g2000prq.googlegroups.com>
Source record: 18549
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Jan 2, 2:16 pm, "Kenneth P. Stox" <s...@sbcglobal.net> wrote:
> Billy Burpelson wrote:
>
> > Barry L. Ornitz, PhD WA4VZQ wrote:
>
> >>> Silicone oils are excellent from a health standpoint...
>
> > John Smith wrote:
>
> >> However, the last silicone oil I purchased was at an auction... and
> >> food grade to boot!)
>
> > I am a bit puzzled. IIRC, the silicone in women's breast implants
> > would/could/did leak and cause fairly serious health problems. Yet, Dr.
> > Ornitz says "Silicone oils are excellent from a health standpoint" and
> > Mr. Smith says: "food grade".
>
> > Could anyone take a shot at explaining this apparent dichotomy?
>
> > Inquiring minds want to know.

- There are plenty of things that are inert when
- passing through the gut that will be lethal if
- introduced directly into the body.

Yeah - You can Sallow a FMJ Bullet
and 'pass-it' quite nicely.

-fwiw- a Solid Lead Bullet might produce
different results in the 'gut'.

But that same FMJ Bullet 'passing-thru'
the Body could be very Lethal.
.

76. Re: Motorcycle mobile

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 04:23:26 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gjmp7m$bo0s$1@tr22n12.aset.psu.edu>
Source record: 18550

Philo wrote:

>> Dual band 144/440 on a motorcycle...Any suggestions?
>>
>> - 73 de Mike N3LI -
>
> I hope the Shadow Spirit's battery is heavier than the unit in the CBF1000.
>
> Anyway start developing your "dead battery bike pushing" skills...

It's pretty strong. I bought the best one I could find, after finding
the previous owner had an underpowered one.

Side note: I don't know if is is an indicator, but this new heavy duty
battery was distinctly old school. It was shipped uncharged, and needed
a full charging after putting the acid in it. I've been used to the fill
'em and go pre-charged batteries.

- 73 de Mike N3LI -

77. Re: 2m tvi stub radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 04:35:49 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gjmput$bo0u$1@tr22n12.aset.psu.edu>
Source record: 18551

ml wrote:

> thanks Mike and Dale, hmm so that is a pickle if it notches
> out a TV channel hmmm that would be bad the UHF stations would
> also be the most week so i guess then i would be sol
>
> perhaps i'd have to use a commercial notch filter then
>
> it's unsure if by coiedence if the harmonics might fall out on a
> few of the unused channels or not
>
> hmm
>
> than again i ponder if the digital tv would simply not be
> effected by the 10m or 2m rigs, then again could be worse but
> perhaps digital tv might actually 'save me''
>
> again i appreciate all those that responded i have a lot of good
> ideas to experiement and try

Either way you decide to do it is fine, but a stub is so easy and cheap, esp if you already have some coax laying around the shanty.

I'd try it and see if it accidentally notched any desired frequencies. The stub is so simple that if it doesn't work, it was only a little time and effort.

- 73 de Mike N3LI -

78. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 05:31:28 UTC
From: Bryan <bryan.swadenerNOSPAM@comcast.net>
Message-ID: <DM2dnSE6HJu6ZcPUnZ2dnUVZ_obinZ2d@giganews.com>
Source record: 18552

Bob Campbell wrote:
> John Smith wrote:
>> Dave wrote:
>>
>>> ...
>>> http://www.eham.net/forums/Elmers/1574
>>
>> Uh, yeah, I guess your reference to a dummy load is helpful, in some
>> other reality ...
>
> I was just happy to see someone in that thread pop up with the warning
> about PCBs in old transformer oil. I couldn't believe someone said they
> actually got power company transformer oil!
After I refurbished my Cantenna (needed a new globar resistor and cleaning), I was able to get a gallon from my local power company (free gratis). It took a few phone calls to find the supervisor of the transformer shop. At the rate their pump runs, the trick was getting /only/ one gallon!

I considered mineral oil but learned transformer oil has better thermal characteristics. I now have a homebrew air-cooled dummy load that will handle over a kilowatt continuously.

Bryan WA7PRC

79. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 10:44:35 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <8d76d62c-c2c8-4462-9ce7-97cfce2a71a7@f33g2000vbf.googlegroups.com>
Source record: 18553

On Jan 3, 12:31 am, "Bryan" <bryan.swadenerNOS...@comcast.net> wrote:
> Bob Campbell wrote:
> > John Smith wrote:
> >> Dave wrote:
>
> >>> ...
> >>>http://www.eham.net/forums/Elmers/1574
>
> >> Uh, yeah, I guess your reference to a dummy load is helpful, in some
> >> other reality ...
>
> > I was just happy to see someone in that thread pop up with the warning
> > about PCBs in old transformer oil. I couldn't believe someone said they
> > actually got power company transformer oil!
>
> After I refurbished my Cantenna (needed a new globar resistor and cleaning),
> I was able to get a gallon from my local power company (free gratis). It
> took a few phone calls to find the supervisor of the transformer shop. At
> the rate their pump runs, the trick was getting /only/ one gallon!
>
> I considered mineral oil but learned transformer oil has better thermal
> characteristics. I now have a homebrew air-cooled dummy load that will
> handle over a kilowatt continuously.
>
> Bryan WA7PRC

I used Shell Diala for years in radar systems. The last time I changed
the oil we used somrthing else, probably cheaper. The main ingredient
in all odf it is mineral oil but it has a few additives. Local PoCO
uses the same. We got some from them one time and they had a RR tank
car full of it.

Jimmie

80. Re: l/2 horizontal dipole vs inverted L 160m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 11:50:46 UTC
From: tzitzikas <tzitzikas.3a55217@radiobanter.com>
Message-ID: <tzitzikas.3a55217@radiobanter.com>
Source record: 18562

i would like to ask you 2 questions:
1) the radials increase or decrease the inverted L efficiency when i don't use 50ohm antenna (coaxial cable 50ohm and 50ohm coupler). i know that when we use an 50ohm inverted L the radials increase the antenna's efficiency.

2) i would like to ask which antenna is better for 160m? 1/4 wavelenght inverted L , 3/8 wavelenght inverted L or 1/2 wavelenght inverted L ??
thanks

--
tzitzikas

81. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 14:31:30 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <OAK7l.8122$8_3.1615@flpi147.ffdc.sbc.com>
Source record: 18554

Dave wrote:
> the only one who would care about that is art who believes that current
> flows back down the inside of the conductor. for the rest of us an end of a
> wire is an end of a wire... the difference in capacitance from a filled end
> to a hollow tube, unless the diameter of the hollow tube is a good fraction
> of a wavelength should be negligible.

Has anyone ever measured a difference between aluminum
tubing and a solid aluminum rod at the end of an antenna?
--
73, Cecil http://www.w5dxp.com

82. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 14:49:45 UTC
From: Dave <dave@dave.dave>
Message-ID: <qsmdnS1hpMiX5sLUnZ2dnUVZ_t7inZ2d@earthlink.com>
Source record: 18555

Cecil Moore wrote:
> Dave wrote:
>> the only one who would care about that is art who believes that
>> current flows back down the inside of the conductor. for the rest of
>> us an end of a wire is an end of a wire... the difference in
>> capacitance from a filled end to a hollow tube, unless the diameter of
>> the hollow tube is a good fraction of a wavelength should be negligible.
>
> Has anyone ever measured a difference between aluminum
> tubing and a solid aluminum rod at the end of an antenna?

The rod is heavier.

83. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 14:53:23 UTC
From: david@drumheller.org
Message-ID: <4f020f73-b2db-4e21-841d-e91db9f7999f@z6g2000pre.googlegroups.com>
Source record: 18556

On Jan 3, 9:49 am, Dave <d...@dave.dave> wrote:
> Cecil Moore wrote:
>
> > Has anyone ever measured a difference between aluminum
> > tubing and a solid aluminum rod at the end of an antenna?
>
> The rod is heavier.

Yes, yes, the rod is heavier. Very funny, but could someone answer
the original question.

-Dave, K3WQ

84. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 15:33:38 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <mzL7I.3141$Es4.2069@nwrddc01.gnilink.net>
Source record: 18557

<david@drumheller.org> wrote in message
news:4f020f73-b2db-4e21-841d-e91db9f7999f@z6g2000pre.googlegroups.com...
On Jan 3, 9:49 am, Dave <d...@dave.dave> wrote:
> Cecil Moore wrote:
>
> > Has anyone ever measured a difference between aluminum
> > tubing and a solid aluminum rod at the end of an antenna?
>
> The rod is heavier.

Yes, yes, the rod is heavier. Very funny, but could someone answer
the original question.

-Dave, K3WQ

The current is close to zero- why would it make any difference?
W4OP

85. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 15:38:24 UTC
From: Billy Burpelson <billy@burpelsonafb.net>
Message-ID: <RDL7l.16693$ZP4.6312@nlpi067.nbdc.sbc.com>
Source record: 18558
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

> Billy Burpelson wrote:
>
>> ...
>> And swallowing something is -not- being "introduced directly into the
>> body"? I would have thought otherwise...

John Smith wrote:

> I mean, "Come on!" You have to ask that?
>
> A hypodermic needles injection is "directly." A swallowed substance is
> directly introduced into the digestive tract, where it is the
> assimilated into the blood ...

Huh? Are we both saying the same thing?

If a substance is injected by a hypodermic needle and then 'assimilated into the blood', how is that different from you saying "A swallowed substance is directly introduced into the digestive tract, where it is the[n] assimilated into the blood ..."?

Seems like it gets into the blood stream (and is thus circulated around the entire body) in -either- case. So your point is...?

Back to my original, bottom line question: is silicone in the blood stream good for you or bad for you? (and yes, I DO have to ask, because your response seems to make no sense).

Regards,
Billy

86. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 16:37:41 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <bde7e210-3c6b-41dd-8e94-aecee6d7e7d6@v5g2000prm.googlegroups.com>
Source record: 18559

```
On Jan 3, 9:33 am, "Dale Parfitt" <pari...@verizon.net> wrote:
> <da...@drumheller.org> wrote in message
>
> news:4f020f73-b2db-4e21-841d-e91db9f7999f@z6g2000pre.googlegroups.com...
> On Jan 3, 9:49 am, Dave <d...@dave.dave> wrote:
>
> > Cecil Moore wrote:
>
> > > Has anyone ever measured a difference between aluminum
> > > tubing and a solid aluminum rod at the end of an antenna?
>
> > The rod is heavier.
>
> Yes, yes, the rod is heavier.  Very funny, but could someone answer
> the original question.
>
> -Dave, K3WQ
>
> The current is close to zero- why would it make any difference?
> W4OP

Wrong.!
The primary current is still flowing at the center. Particles occupy
the surface of the inside
and with the inter rejection of like particles produce a hoop stress
between them which
cannot be broken by a eddy current field, if present Thus the
particles cannot be ejected even tho there
is the primary ,current flow in the center ofr the tube. Remember.
the presence of particles is cast in stone
via the extension of the Gaussian law of statics. The presumption that
the current is near zero
is false until proven otherwise.. There is absolutely NO evidence that
reflection occurs in any shape or form at the
material ends of a radiator and all that pertains to such. PERIOD
Art Unwin KB9MZ.........xg
```

87. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 16:42:48 UTC
From: Sum Ting Wong <sumtingwong@privacy.net>
Message-ID: <4m4vl41qvs8h5dptf4iqjip979ihrlph5i@4ax.com>
Source record: 18560

On Sat, 03 Jan 2009 08:31:30 -0600, Cecil Moore <nospam@w5dxp.com>
wrote:

>Has anyone ever measured a difference between aluminum
>tubing and a solid aluminum rod at the end of an antenna?

Maybe Horace Lamb or Oliver Heaviside? Skin effect is dependent on
frequency as well as the material, right? Is the thickness of the
aluminum tubing significant at the frequency where you plan to use it?

I missed the beginning of the thread, so what is the original question
pertaining to?

In any case, I believe the rod would be heavier. ;)

S.T.W.

88. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 17:00:17 UTC
From: Dave <noone@nowhere.com>
Message-ID: <BQM7l.3160$Es4.1866@nwrddc01.gnilink.net>
Source record: 18561

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:bde7e210-3c6b-41dd-8e94-aecee6d7e7d6@v5g2000prm.googlegroups.com...

>Wrong.!

I told you so!

>The primary current is still flowing at the center. Particles occupy
>the surface of the inside
>and with the inter rejection of like particles produce a hoop stress

'hoop stress' now there's a good term for particle interaction!

>between them which
>cannot be broken by a eddy current field, if present Thus the
>particles cannot be ejected even tho there
> is the primary ,current flow in the center ofr the tube. Remember.
>the presence of particles is cast in stone

the stone in this case is art's brain.

>via the extension of the Gaussian law of statics. The presumption that
>the current is near zero
>is false until proven otherwise.. There is absolutely NO evidence that
>reflection occurs in any shape or form at the
>material ends of a radiator and all that pertains to such. PERIOD

nah, just because i can measure it with my simple tdr here doesn't mean it
happens... its all the magical mystery levitating neutrinos that cause all
the fun.

89. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 17:30:18 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7d4f2945-b495-4258-83f8-85a740b19e6c@c36g2000prc.googlegroups.com>
Source record: 18563

On Jan 3, 11:00 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:bde7e210-3c6b-41dd-8e94-aecee6d7e7d6@v5g2000prm.googlegroups.com...
>
> >Wrong.!
>
> I told you so!
>
> >The primary current is still flowing at the center. Particles occupy
> >the surface of the inside
> >and with the inter rejection of like particles produce a hoop stress
>
> 'hoop stress' now there's a good term for particle interaction!
>
> >between them which
> >cannot be broken by a eddy current field, if present Thus the
> >particles cannot be ejected even tho there
> > is the primary ,current flow in the center ofr the tube. Remember.
> >the presence of particles is cast in stone
>
> the stone in this case is art's brain.
>
> >via the extension of the Gaussian law of statics. The presumption that
> >the current is near zero
> >is false until proven otherwise.. There is absolutely NO evidence that
> >reflection occurs in any shape or form at the
> >material ends of a radiator and all that pertains to such.   PERIOD
>
> nah, just because i can measure it with my simple tdr here doesn't mean it
> happens... its all the magical mystery levitating neutrinos that cause all
> the fun.

David
You should know better.
Years ago I pointed out that the extension of the Gaussian law of
static results in Maxwells laws
with extension via mathematics. Before then I am sure that you were
aware of magnostatic fields
so it should not come as a surprize that the mathemetics is well
proven. When the mathematics were presented
before your very eyes you came up with reasons that defy the
imagination and totally absurd
You have the "field and waves" book by Ramo and Co so read it from end

to end with a smidgeon of understanding
so you may follow it from first principles. All the answers you seek
are
written in that book and they agree perfectly with mine. Nowhere does
it confirm what you state that Statics have zero connection
with magnetics which thus prevents mathematical connections. As for
hoop stress that is another derivitation of Newtons laws of action and
reaction and Newtons laws apply to the Universe including
electromagnetics via the Standard Model which, by the way ,includes
the Weak force that you also deny the presence of as well as the
chemical critera.
Your engineering ability is forcing your personal credability into the
ground.
Art

90. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 17:33:38 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <SjN7l.1219$Db2.707@edtnps83>
Source record: 18564

<david@drumheller.org> wrote in message
news:4fdb82fb-49e4-4989-b520-3149b236d20c@k19g2000yqg.googlegroups.com...
> I've been using 4Nec2, a freeware antenna modeling program based on
> NEC-2 (Numerical Electromagnetic Code). I'm wondering if anyone could
> provide some insight as to just how it models current at the ends of
> wires that are not connected to anything (a.k.a. "free ends" or "open
> ends").
>
> Does NEC-2 model "end caps" at free ends, which is equivalent to
> assuming wires are solid, or does it just set the current equal to
> zero at the free ends, which is equivalent to assuming wires are
> hollow? Is it possible that it does both, but the specific model is
> determined by the choice of computational kernel (extended vs.
> standard)?
>
> I've tried looking through some of the NEC-2 documentation, but I
> can't find a definitive answer.
>
> -Dave, K3WQ

This is covered in: http://www.nec2.org/other/nec2prt1.pdf
pp 11 - 12.

Frank

91. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 17:39:52 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gjo7sv$co56$1@tr22n12.aset.psu.edu>
Source record: 18565
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Billy Burpelson wrote:

> Back to my original, bottom line question: is silicone in the blood
> stream good for you or bad for you? (and yes, I DO have to ask, because
> your response seems to make no sense).

Yes. Ask the women whose breast implants broke.

- 73 de Mike N3LI -

92. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 17:40:13 UTC
From: Dave <noone@nowhere.com>
Message-ID: <1qN7I.3165$Es4.685@nwrddc01.gnilink.net>
Source record: 18566

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:7d4f2945-b495-4258-83f8-85a740b19e6c@c36g2000prc.googlegroups.com...

>You should know better.

i do know better than you.

>Years ago I pointed out that the extension of the Gaussian law of
>static results in Maxwells laws
>with extension via mathematics.

absolutely worthless since guass's law was already a part of maxwell's
equations, your 'addition' was worthless.

>All the answers you seek are
> written in that book and they agree perfectly with mine.

nowhere does it include the weak farce in the maxwell's equations, nor does
it ever mention your magical levitating diamagnetic neutrinos.

93. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 17:46:59 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <35718345-fac1-4621-ba62-a49749a9a37c@w1g2000prk.googlegroups.com>
Source record: 18567

On Jan 3, 9:33 am, "Frank" <ve6cb...@nospam.telus.net> wrote:
> <da...@drumheller.org> wrote in message
>
> news:4fdb82fb-49e4-4989-b520-3149b236d20c@k19g2000yqg.googlegroups.com...
>
>
>
> > I've been using 4Nec2, a freeware antenna modeling program based on
> > NEC-2 (Numerical Electromagnetic Code). I'm wondering if anyone could
> > provide some insight as to just how it models current at the ends of
> > wires that are not connected to anything (a.k.a. "free ends" or "open
> > ends").
>
> > Does NEC-2 model "end caps" at free ends, which is equivalent to
> > assuming wires are solid, or does it just set the current equal to
> > zero at the free ends, which is equivalent to assuming wires are
> > hollow? Is it possible that it does both, but the specific model is
> > determined by the choice of computational kernel (extended vs.
> > standard)?
>
> > I've tried looking through some of the NEC-2 documentation, but I
> > can't find a definitive answer.
>
> > -Dave, K3WQ
>
> This is covered in:http://www.nec2.org/other/nec2prt1.pdf
> pp 11 - 12.
>
> Frank

Thanks, Frank, for shining some light into a dark corner. I
appreciate having that whole document now, too.

Cheers,
Tom

94. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 18:01:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <17l436-0oh.ln1@mail.specsol.com>
Source record: 18568
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

In rec.radio.amateur.antenna Mike Coslo <mjc5@psu.edu> wrote:
> Billy Burpelson wrote:
>
>> Back to my original, bottom line question: is silicone in the blood
>> stream good for you or bad for you? (and yes, I DO have to ask, because
>> your response seems to make no sense).
>
> Yes. Ask the women whose breast implants broke.
>

Or you could ask the Mayo Clinic which says the only problem is the
formation of scar tissue, which happens with any foreign object in
the body.

http://www.mayoclinic.com/health/breast-implants/AN01212

--
Jim Pennino

Remove .spam.sux to reply.

95. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 18:06:20 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <456c3d7b-fa0a-46d5-a463-20cfab95aa56@a12g2000pro.googlegroups.com>
Source record: 18569

On Jan 3, 11:40 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:7d4f2945-b495-4258-83f8-85a740b19e6c@c36g2000prc.googlegroups.com...
>
> >You should know better.
>
> i do know better than you.
>
> >Years ago I pointed out that the extension of the Gaussian law of
> >static results in Maxwells laws
> >with extension via mathematics.
>
> absolutely worthless since guass's law was already a part of maxwell's
> equations, your 'addition' was worthless.

Oh My! The Gaussian law included was NOT the law of statics
What sort of school did you attend?

>
> >All the answers you seek are
> > written in that book and they agree perfectly with mine.
>

> nowhere does it include the weak farce in the maxwell's equations, nor does
> it ever mention your magical levitating diamagnetic neutrinos.

That is only because it is not fully up to date just like many other
technical
books including Terman

The World has spent millions of dollars on the C.E.R.N. project in
Switzerland
to investigate neutrious, the weak force and the Higgs field.
They have a home page on the net why not take a moment to read it so
that you will become up to date?
Art

96. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 18:15:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <aol436-0oh.ln1@mail.specsol.com>
Source record: 18570
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

In rec.radio.amateur.antenna Billy Burpelson <billy@burpelsonafb.net> wrote:
>
>> Billy Burpelson wrote:
>>
>>> ...
>>> And swallowing something is -not- being "introduced directly into the
>>> body"? I would have thought otherwise...
>
> John Smith wrote:
>
>> I mean, "Come on!" You have to ask that?
>>
>> A hypodermic needles injection is "directly." A swallowed substance is
>> directly introduced into the digestive tract, where it is the
>> assimilated into the blood ...
>
> Huh? Are we both saying the same thing?
>
> If a substance is injected by a hypodermic needle and then 'assimilated
> into the blood', how is that different from you saying "A swallowed
> substance is directly introduced into the digestive tract, where it is
> the[n] assimilated into the blood ..."?
>
> Seems like it gets into the blood stream (and is thus circulated around
> the entire body) in -either- case. So your point is...?
>
> Back to my original, bottom line question: is silicone in the blood
> stream good for you or bad for you? (and yes, I DO have to ask, because
> your response seems to make no sense).

It is not very likely to be "good" for you and depending on how much, it
could be "bad" for you.

But there is the bottom line question of how could an oranically inert
substance get into the blood stream other than through direct injection?

The question is like asking if glass in the blood stream is a problem.

--
Jim Pennino

Remove .spam.sux to reply.

97. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 18:20:58 UTC
From: Dave <noone@nowhere.com>
Message-ID: <e0O7l.3172$Es4.821@nwrddc01.gnilink.net>
Source record: 18571

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:456c3d7b-fa0a-46d5-a463-20cfab95aa56@a12g2000pro.googlegroups.com...
>Oh My! The Gaussian law included was NOT the law of statics
>What sort of school did you attend?

there is only one gauss's law that is included in maxwell's equations,
please state your equation so i may poke more holes in it.

98. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 18:25:38 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <264712b0-4c46-4776-86f4-d0eb8c6c1199@w24g2000prd.googlegroups.com>
Source record: 18572

On Jan 3, 11:33 am, "Frank" <ve6cb...@nospam.telus.net> wrote:
> <da...@drumheller.org> wrote in message
>
> news:4fdb82fb-49e4-4989-b520-3149b236d20c@k19g2000yqg.googlegroups.com...
>
>
>
> > I've been using 4Nec2, a freeware antenna modeling program based on
> > NEC-2 (Numerical Electromagnetic Code). I'm wondering if anyone could
> > provide some insight as to just how it models current at the ends of
> > wires that are not connected to anything (a.k.a. "free ends" or "open
> > ends").
>
> > Does NEC-2 model "end caps" at free ends, which is equivalent to
> > assuming wires are solid, or does it just set the current equal to
> > zero at the free ends, which is equivalent to assuming wires are
> > hollow? Is it possible that it does both, but the specific model is
> > determined by the choice of computational kernel (extended vs.
> > standard)?
>
> > I've tried looking through some of the NEC-2 documentation, but I
> > can't find a definitive answer.
>
> > -Dave, K3WQ
>
> This is covered in:http://www.nec2.org/other/nec2prt1.pdf
> pp 11 - 12.
>
> Frank

Frank
Please keep in mind the following
NEC is based totally on the extremely thin wire where various
assumption can be made
such as equations being equal to zero in the limit., These same
assumptions can not be held to
when dealing with thick radiators despite the closeness of the
approximations.
Best regards
Art

99. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 18:49:07 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <1b07ba47-f120-4a90-bc05-6b0685b3b64a@w24g2000prd.googlegroups.com>
Source record: 18573

On Jan 3, 12:25 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Jan 3, 11:33 am, "Frank" <ve6cb...@nospam.telus.net> wrote:
>
>
>
> > <da...@drumheller.org> wrote in message
>
> >news:4fdb82fb-49e4-4989-b520-3149b236d20c@k19g2000yqg.googlegroups.com...
>
> > > I've been using 4Nec2, a freeware antenna modeling program based on
> > > NEC-2 (Numerical Electromagnetic Code). I'm wondering if anyone could
> > > provide some insight as to just how it models current at the ends of
> > > wires that are not connected to anything (a.k.a. "free ends" or "open
> > > ends").
>
> > > Does NEC-2 model "end caps" at free ends, which is equivalent to
> > > assuming wires are solid, or does it just set the current equal to
> > > zero at the free ends, which is equivalent to assuming wires are
> > > hollow? Is it possible that it does both, but the specific model is
> > > determined by the choice of computational kernel (extended vs.
> > > standard)?
>
> > > I've tried looking through some of the NEC-2 documentation, but I
> > > can't find a definitive answer.
>
> > > -Dave, K3WQ
>
> > This is covered in:http://www.nec2.org/other/nec2prt1.pdf
> > pp 11 - 12.
>
> > Frank
>
> Frank
> Please keep in mind the following
> NEC is based totally on the extremely thin wire where various
> assumption can be made
> such as equations being equal to zero in the limit., These same
> assumptions can not be held to
> when dealing with thick radiators despite the closeness of the
> approximations.
> Best regards
> Art

Calculus is based on homogenous materials or planes where you can
refer dy/dx to
some thing aproaching zero. In the case of using this aproach where
the antenna diameter aproaches zero
this is an invalid aproach for accuracy but O.K. for aproximations. So
much for the foibles of theoretical mathematics.
The vanishing thin radiator cannot be applied directly to a non
homogenous material because at the limits of the the diameter
is unable to support the presence of eddy currents(skin depth) . In
other words the assumption of limi tess ness cannot be held if the
presence of
skin effect is true. Ofcourse if skin effect is not present then you
have a DC current where only copper losses are present.
As always with mathematics assumptions and preconditions are alway
subject to examination. This in no way takes away from the advantages
oif the NEC programs.
Art

100. Re: l/2 horizontal dipole vs inverted L 160m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 20:32:46 UTC
From: richardharrison@webtv.net
Message-ID: <27512-495FCB6E-7965@storefull-3173.bay.webtv.net>
Source record: 18574

Tzitzikas wrote:
"I know that when we use an inverted L the radials increase the antenna`s efficiency."

The same is true of any antenna which works against the earth to complete its circuit. Radials at the surface of the earth may be increased in number until there are more than 100 where the point of diminishing returns is exceeded. U.S.A. government regulations require medium-wave broadcasters to use 120 radials of at least 1/4-wave length or else prove the installed grounding system meets or exceeds the government`s efficiency standard. These radials are separated by 3 degrees for equal current distribution. Thousands of such installations have been documentedand and are proved nearly lossless.

Tzitzikas also wrote:
"I would like to ask which antenna is better for 160m?"

The radiation which counts is along the surface of the earth because it determines daytime coverage. Ionospheric coverage is useful at night subject to many variations and even interferes with the surface wave at some distance from the transmitter.

If some of the radiatinng antenna wire is horizontal, it may introduce radiation which escapes to the ionosphere to interfere with the surface wave at some distance from the transmitter unless it is carefully balanced out as in the case of the T antenna or other antennas with symmetrical balanced capacitive loading.

First, an antenna which is self-resonant presents no capacitive reactance, which needs a lossy coil to balance out. The shortest self-resonant antenna works against ground and is 1/4-wavelength. That makes them popular. It`s a matter of getting maximum current into the antenna. A resonant antenna is unimpeded by reactance.

If an antenna is between 1/4-wave and 1/2-wave in length it can be resonated with a series capacitance. Capacitance is usually very low in loss so it is efficient.

As an antenna grows from 1/4-wave to 1/2-wave it produces greater field strength on the distant horizon, not because it is more efficient but because its power is being radiated at lower angles near the surface of the earth and less is radiated at angles above the horizon.

Best regards, Richard Harrison, KB5WZI

101. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 20:44:41 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <Z6Q7I.2027$PH1.1606@edtnps82>
Source record: 18575

>> Frank
>> Please keep in mind the following
>> NEC is based totally on the extremely thin wire where various
>> assumption can be made
>> such as equations being equal to zero in the limit., These same
>> assumptions can not be held to
>> when dealing with thick radiators despite the closeness of the
>> approximations.
>> Best regards
>> Art

The reference at http://www.nec2.org/other/nec2prt1.pdf p 21 deals
with the accuracey of NEC 2 in respect to the "Thin wire approximation".
From the NEC-4, theory manual, p 21, para 4: ".... the NEC-4 wire model
employes the extended boundary condition in the thin wire approximation,
so that the current is treated as a tubular distribution on the wire
surface......."

>Calculus is based on homogenous materials or planes where you can
>refer dy/dx to
>some thing aproaching zero. In the case of using this aproach where
>the antenna diameter aproaches zero
>this is an invalid aproach for accuracy but O.K. for aproximations. So
>much for the foibles of theoretical mathematics.

Your comments about calculus are confusing. A derivative
is always non-zero -- unless you are differentiating a constant.
The homogeneity, or otherwise, of a material is irrelevant
to the process of differentiation.

>The vanishing thin radiator cannot be applied directly to a non
>homogenous material because at the limits of the the diameter
>is unable to support the presence of eddy currents(skin depth) . In
>other words the assumption of limi tess ness cannot be held if the
>presence of skin effect is true.

Most conductors are homogeneous. In fact I cannot think of
a non-homogeneous conductor. Even in plated conductors
the current flows in the plating.

>Of course if skin effect is not present then you
>have a DC current where only copper losses are present.
>As always with mathematics assumptions and preconditions are alway
>subject to examination. This in no way takes away from the advantages
>oif the NEC programs.
>Art

Copper loss still exists for high frequency currents.

73, Frank

102. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 21:18:06 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b2af48d5-965e-4412-a924-d9bba7981b29@q30g2000prq.googlegroups.com>
Source record: 18576

```
On Jan 3, 2:44 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> >> Frank
> >> Please keep in mind the following
> >> NEC is based totally on the extremely thin wire where various
> >> assumption can be made
> >> such as equations being equal to zero in the limit., These same
> >> assumptions can not be held to
> >> when dealing with thick radiators despite the closeness of the
> >> approximations.
> >> Best regards
> >> Art
>
> The reference athttp://www.nec2.org/other/nec2prt1.pdf p 21 deals
> with the accuracey of NEC 2 in respect to the "Thin wire approximation".
> From the NEC-4, theory manual, p 21, para 4: ".... the NEC-4 wire model
> employes the extended boundary condition in the thin wire approximation,
> so that the current is treated as a tubular distribution on the wire
> surface......."
>
> >Calculus is based on homogenous materials or planes where you can
> >refer dy/dx to
> >some thing aproaching zero. In the case of using this aproach where
> >the antenna diameter aproaches zero
> >this is an invalid aproach for accuracy but O.K. for aproximations. So
> >much for the foibles of theoretical mathematics.
>
> Your comments about calculus are confusing.  A derivative
> is always non-zero -- unless you are differentiating a constant.
> The homogeneity, or otherwise, of a material is irrelevant
> to the process of differentiation.
That is exactly my point. The skin is not hogenoius even if you
consider the resistive action to be constant in depth thus you cannot
put a limit on the thicknes
or diameter of the radiator! If you do put a limit anyway on skin
depth then you cannot apply the reasoning to a hollow tube.
We can talk back and forwards for ever on the analogy provided with
vanishingly thin radiators but until we break apart the mathematics
such that there is a reflection at the end of a radiator the posters
question cannot be answered.
If one is to model the situation as Cecil suggests we must first
determine how and where the reflection is created and the
applied math provided to support it. I can see no reference via
mathematics that shows the reversal or reflection of current flow
prior to the end of a cycle.If there were such an instance then there
```

must be a determination of the resistance radiation or otherwise
so that any assumption made is factual.

>
> >The vanishing thin radiator cannot be applied directly to a non
> >homogenous material because at the limits of the the diameter
> >is unable to support the presence of eddy currents(skin depth) . In
> >other words the assumption of limi tess ness cannot be held if the
> >presence of skin effect is true.
>
> Most conductors are homogeneous. In fact I cannot think of
> a non-homogeneous conductor. Even in plated conductors
> the current flows in the plating.

No that is not true as homogenous implies equilibrium and for skin
depth the value (e) comes into beingor what so0me would refer to as
decay
>
> >Of course if skin effect is not present then you
> >have a DC current where only copper losses are present.
> >As always with mathematics assumptions and preconditions are alway
> >subject to examination. This in no way takes away from the advantages
> >oif the NEC programs.
> >Art
>
> Copper loss still exists for high frequency currents.

Very true Frank but the radiation resistance plus the resistance
encoutered by surface flow is not related/
proportional to the pure copper losses where skin resistance is not
present where in the absence of
skin depth leaves one with DC pulses.

I am ofcourse still interested what the NEC programs show for
reflection and consequental resistance
which I believe was in Cecil's thoughts to determine the truth.
Hopefully the dialogue between you and I will not drop to the level of
David's where he contendes that Gaussian law of STATICS
is one of the basic laws that Maxwell applied/used without the
required proof..On top of which he denies the applicability of statics
with electro magnetics thus any mathematical aproach cannot be
applicable which is absolutely crazy
The thrust of this thread is solely on the difference of radiation
with respect to hollow radiators and solid radiators and it should be
kept at that to provide a reasonable answer as required in any formal
debate.
>
> 73, Frank

103. Re: Look what I found

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 22:30:09 UTC
From: Richard Knoppow <dickburk@ix.netcom.com>
Message-ID: <MrKdnTch3-Rle8LUnZ2dnUVZ_gKdnZ2d@earthlink.com>
Source record: 18577
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
"Dave" <dave@dave.dave> wrote in message
news:tdidndvlEvl0UcPUnZ2dnUVZ_sUAAAAA@earthlink.com...
> Richard Knoppow wrote:
>> "Jeff Liebermann" <jeffl@cruzio.com> wrote in message
>> news:djanl4pcb90bmmgldjmn2l31ppcp9mb55g@4ax.com...
>>> On Wed, 31 Dec 2008 09:40:05 -0600, msg
>>> <msg@_cybertheque.org_> wrote:
>>>
>>>> Dave wrote:
>>>>> www.zerobeat.net/r3403c.pdf
>>>> FWIW, MCRP 6-22D is also out there (I grabbed it 18
>>>> months ago but didn't
>>>> save the URL); it is pretty much the same thing.
>>>> Michael
>>> It's at:
>>> <http://www.armymars.net/ArmyMARS/Antennas/Resources/usmc-antenna-hb.pdf>
>>>
>>>
>>> --
>>> Jeff Liebermann jeffl@cruzio.com
>>> 150 Felker St #D http://www.LearnByDestroying.com
>>> Santa Cruz CA 95060 http://802.11junk.com
>>> Skype: JeffLiebermann AE6KS 831-336-2558
>>
>> Thanks for posting these links.
>> These appear to be nearly identical. According to
>> the forward in R3403C it is a later edition of MCRP
>> 6-22D. Both have an error on page 11. In the chart
>> showing surface conductivity the first two are reversed,
>> that is, sea water should be marked "excellent" and fresh
>> water "very good" not the other way as shown. Sea water
>> is considered to be as close to a "perfect" ground as
>> exists in nature. This error, and the fact that is was
>> carried over into a later edition, suggest that the book
>> was not proof read adequately and there may be other
>> errors, perhaps less obvious. I wonder if any errata were
>> ever published and if so if they are on line anywhere.
>>
>>
> I too have noticed some slop and errors. No doubt
> produced by cost plus civilian contractors.
```

FWIW, I worked for Hewlett-Packard about forty years
ago. At the time -hp- wrote all their own manuals. They
experimented with farming out a manual, I forgot for just
what instrument. It was so awful it was unusable and they
re-did it in-house. All too often business people forget
that the concomitant of "cheaper" is equal quality. The
appalling junk coming out of China should be proof enough of
this. Cheap but no bargain!
Having said that this little book is mostly pretty
good.

--

--
Richard Knoppow
Los Angeles
WB6KBL
dickburk@ix.netcom.com

104. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 22:56:26 UTC
From: Dave <noone@nowhere.com>
Message-ID: <u2S7l.2895$BC4.774@nwrddc02.gnilink.net>
Source record: 18578

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:b2af48d5-965e-4412-a924-d9bba7981b29@q30g2000prq.googlegroups.com...
On Jan 3, 2:44 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
>David's where he contendes that Gaussian law of STATICS
>is one of the basic laws that Maxwell applied/used without the
>required proof..On top of which he denies the applicability of statics
>with electro magnetics thus any mathematical aproach cannot be
>applicable which is absolutely crazy

well art, here is your proof, from the same ramo whinnery and van duzer book
you like to quote....
compare equation (2) in section 2.09 with equation (1) in section 4.07.
note there is no time in either one of them... and section 2 is specifically
about stationary fields, while sectino 4 is maxwell's equations. only 2 of
maxwell's equations actually are about time varying fields, those are
Faraday's law and Ampere's law. The other two are Gauss's law taken
straight from the static case, and the equivalent for magnetic flux... both
of which are time invarient.

>The thrust of this thread is solely on the difference of radiation
>with respect to hollow radiators and solid radiators and it should be
>kept at that to provide a reasonable answer as required in any formal
>debate.

the only thing hollow about this debate is your head.

105. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 23:09:32 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6f1fd6a0-ce30-4b4b-9f1e-9d415028f98f@g39g2000pri.googlegroups.com>
Source record: 18579

On Jan 3, 4:56 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:b2af48d5-965e-4412-a924-d9bba7981b29@q30g2000prq.googlegroups.com...
> On Jan 3, 2:44 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
>
> >David's where he contendes that Gaussian law of STATICS
> >is one of the basic laws that Maxwell applied/used without the
> >required proof..On top of which he denies the applicability of statics
> >with electro magnetics thus any mathematical aproach cannot be
> >applicable which is absolutely crazy
>
> well art, here is your proof, from the same ramo whinnery and van duzer book
> you like to quote....
> compare equation (2) in section 2.09 with equation (1) in section 4.07.
> note there is no time in either one of them... and section 2 is specifically
> about stationary fields, while sectino 4 is maxwell's equations. only 2 of
> maxwell's equations actually are about time varying fields, those are
> Faraday's law and Ampere's law. The other two are Gauss's law taken
> straight from the static case, and the equivalent for magnetic flux... both
> of which are time invarient.
>
> >The thrust of this thread is solely on the difference of radiation
> >with respect to hollow radiators and solid radiators and it should be
> >kept at that to provide a reasonable answer as required in any formal
> >debate.
>
> the only thing hollow about this debate is your head.

David
I bought that book because you refered to it some time ago where you
misrepresented
what you alluded to and now you are doing it again. In your method of
reading did the law that a radiator can be any shape, size or
elevation as long as it is in equilibrium? I can't conceive that a
mathematition of Maxwells staturer could have missed that observation
if as you say he extended gaussian law of statics. Perhaps you have an
answer for that also of the back of your head.
Your positions continue to be absurd from an engineering point of view
and nobody as yet has confirmed your position and what is really wierd
none have denied
Art

106. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-03 23:57:22 UTC
From: Dave <noone@nowhere.com>
Message-ID: <CXS7l.2904$BC4.579@nwrddc02.gnilink.net>
Source record: 18580

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:6f1fd6a0-ce30-4b4b-9f1e-9d415028f98f@g39g2000pri.googlegroups.com...
>I bought that book because you refered to it some time ago where you
>misrepresented
>what you alluded to and now you are doing it again.

misrepresented??? its right in the book, compare those two formula, are
they not the same? is not guass's law, which is a time invarient equation
directly in maxwell's equations??

>In your method of
>reading did the law that a radiator can be any shape, size or
>elevation as long as it is in equilibrium?

if you can find where 'equilibrium' is a required condition in maxwell's
equations, give me the reference in the book. otherwise you are out of
equilibrium.

>I can't conceive that a
>mathematition of Maxwells staturer could have missed that observation
>if as you say he extended gaussian law of statics. Perhaps you have an
>answer for that also of the back of your head.

sure, he didn't 'extend' it... he used it verbatum as the book shows. there
is no need to 'extend' it, its a perfectly good law as it is stated and has
been for many years.

>our positions continue to be absurd from an engineering point of view
>and nobody as yet has confirmed your position and what is really wierd
>none have denied

because they are enjoying laughing at your absurd positions as much as i am!

107. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 00:41:34 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5d2f43a6-ee77-46cc-bb98-a1636fce76d2@t39g2000prh.googlegroups.com>
Source record: 18581

On Jan 3, 5:57 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:6f1fd6a0-ce30-4b4b-9f1e-9d415028f98f@g39g2000pri.googlegroups.com...
>
> >I bought that book because you refered to it some time ago where you
> >misrepresented
> >what you alluded to and now you are doing it again.
>
> misrepresented??? its right in the book, compare those two formula, are
> they not the same? is not guass's law, which is a time invarient equation
> directly in maxwell's equations??
>
> >In your method of
> >reading did the law that a radiator can be any shape, size or
> >elevation as long as it is in equilibrium?
>
> if you can find where 'equilibrium' is a required condition in maxwell's
> equations, give me the reference in the book. otherwise you are out of
> equilibrium.
>
> >I can't conceive that a
> >mathematition of Maxwells staturer could have missed that observation
> >if as you say he extended gaussian law of statics. Perhaps you have an
> >answer for that also of the back of your head.
>
> sure, he didn't 'extend' it... he used it verbatum as the book shows. there
> is no need to 'extend' it, its a perfectly good law as it is stated and has
> been for many years.
>
> >our positions continue to be absurd from an engineering point of view
> >and nobody as yet has confirmed your position and what is really wierd
> >none have denied
>
> because they are enjoying laughing at your absurd positions as much as i am!

Oh My Do you really believe that you are talking on behalf of the
masses?
When Dr Davis of M.I.T. said contrary to the thinking of this group
that Gauss's law of statics
when extended, as I stated, is mathematically the equal to Maxwells
laws as per Maxwells correction.
Many a post has been written since that day castigating the very idea
of equivalence to Maxwell,w

even questioning the propriety of the mathematics. So far nobody has concurred with Dr Davis
with respect to the math that he presented. You David stated that the mathematical stance taken was illegal
because there is no connection with respect to statics ! David you have no credability as anyone who owns a copy of that book can easily confirm for themselves..Just look at what you now have stated that you have found the connection
(tho I doubt it) with respect to Statics. Ofcourse if somebody wants to debate your statement on your behalf I will be happy to refute what you say page by page. Until then the book stays on the shelf because of past experiences with your statements.
In Maxwells time he was given credit for what appeared as proof of the wave theory even to the point of extrapolating same to light
because of the "c" property in his correction which he obtained by ensuring compliance to Newtons law with respect to equilibrium.
It was decades before Foucalt came along with his discovery of a field that matched the Maxwell correction where prior to there was none. Now we can debunk the wave theory as the particle is now in stone
Art Unwin KB9MZ......xg (uk)

108. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 00:50:39 UTC
From: jimlux@earthlink.net
Message-ID: <07a4f975-b23d-425d-a61c-2e37ac7045cf@p2g2000prn.googlegroups.com>
Source record: 18582

On Jan 2, 4:59 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Wed, 31 Dec 2008 08:50:28 -0800 (PST), jim...@earthlink.net wrote:
> >On Dec 23, 12:39 pm, Richard Clark <kb7...@comcast.net> wrote:
> >> Nothing astonishes me more than the simple dash-off notes that claim
> >> power measurement is a snap. I can well imagine, Jim, that you don't
> >> do these measurements with traceability to the limits you suggest.
>
> >In point of fact, I *do* make measurements like that,
>
> I note you slip loose from the constraint of "traceability." Doing
> measurements "like that" is vastly different in outcome and holds
> accuracy claims like a sieve holds water.

Traceability only applies when you need absolute measurements, and
there you will need something as a standard, since most RF power
measurements are really more of "transfer" measurements. Since power
is basically an energy measurement, then all manner of calorimetric
approaches will work (or radiometric, if you're working in
microwaves).. then it comes down to how accurately you can measure/
hold temperature. It comes back to what's a reasonable thing for a
ham to have that can serve as a local standard. Time/frequency are
clearly the easiest to get to high precision (1E-10 is straightforward
these days with a GPS disciplined oscillator), voltage is a bit
tougher.. 1ppm would be very, very good for hams, 1e-4 seems plausible
with decent high quality voltage references that cost <$100.
Temperature to 0.1 degree should be doable, so that gives you a part
in 3000, roughly.

A ham seriously interested in 0.1 dB measurements will probably be
able to scrounge up something to use as a transfer standard and
scrounge up a way to get it calibrated. For instance, Noise/Com used
to offer a discounted calibration service for sources based on their
noise diodes. Once you've got a standard, if you take care of it, then
you can use it for lots of things.

The original question had to do with accuracy of measurements vs NEC,
and those would be relative, and, I maintain, not too tough to do to
0.1 dB, because you're making comparison measurements with the same
sensor, at pretty much the same level, etc.

>
> moving on to some very telling points offered in rebuttal to obtaining
> 0.1dB accurate power determinations:>... it *is* within the reach of someone at home with
a lot of
> >time and care to substitute for expensive gear and calibrations

> >(basically, you have to do your own calibration).
> And again with:
> > (back in the 40s, one built one's physics experimental gear and calibrated it yourself)
>
> where both reveal a disastrously circular logic of what could only be
> called "self determination" with a very tenuous grasp to accuracy.

All calibrations, whether in a cal lab or your garage start somewhere.
It's how much trouble are you going to go to for that first standard.
Do you do it calorimetrically and use water triple point and boiling
point as references? Do you trust a good calibrated DVM? 0.1dB means
2% in power.. not exactly gnats eyelash precision (e.g. measuring
temperature to 1 degree C out of a change of 100 degrees is 1%)

> >Standard power measuring head on a Agilent power meter is better than
> >5% at HF, probably in the range of 1% for one head in comparison
> >measurements over a short time. The 8902 is sort of a special case,
> >but can do very accurate relative measurements. FWIW, the 8902
> >calibrates out the measurement head effects.
>
> I have already cited accuracies and errors that conflict with your
> supposition. You are taking characteristics in isolation and citing
> them as being representative of the whole scope of determination of
> power to a stated accuracy. The single example of your stating:> probably in the range of
1% for one head in comparison
> >measurements over a short time.

Sure.. if you are concerned about 0.1dB, then you're going to need to
calculate for yourself, and not take an offhand assertion. That said,
I still think that 0.1dB is reasonable after you take into account all
the uncertainties (and eliminate things that add to the error.. mate/
demate, temperature changes, equipment changes, etc.).

> I am interested in tenth dB accuracy, aren't you? Let's recall where
> this began:
>
> >>On Tue, 23 Dec 2008 10:29:05 -0800, Jim Lux <james.p....@jpl.nasa.gov> wrote:
>
> >>>At HF and VHF, you should be able to do
> >>>power measurements to a tenth of a dB, with moderate care.
>
> This statement has now been dismissed by your inclusion (supporting my
> observation) of mismatch error - which you subsequently diminish:
>
> >you're going to have to measure the mismatch and account for it. It's
> >not that hard, just tedious.
>
> Accounting for mismatch does not correct it. The error it contributes
> remains. This is not an actuarial gimmick of Enron bookkeeping. The
> off-hand hard/tedious baggage appears to be another objection without
> substance.

No.. if you KNOW the mismatch, it's not an uncertainty anymore. There is an uncertainty in the amount of mismatch, but in a relative measurement (e.g. received power from a probe on an antenna range.. the original question) the mismatch doesn't change from measurement to measurement, so it doesn't contribute uncertainty to the measurement. Likewise, if you actually measure the reflected power (e.g. in a VNA) then you don't have to use the "power uncertainty due to mismatch" equation which assumes that the reflection coefficient is of unknown angle. Yes, the reflected power measurement will have an uncertainty, but that is a smaller contributor to the overall uncertainty than the "unknown phase of reflection" uncertainty.

>
> >The typical power meter head doesn't change it's Z very much,
>
> And yet it still is NOT the Z you would like it to be, except by some
> margin of error. Change is not the issue, absolute value is. This
> appears to be yet another manufactured objection that points out error
> only to dismiss it with a cavalier diminution of "very much."
> Metrology doesn't accept adjectives in place of measurables.

For a relative measurement the source and load Zs are constant, and whatever mismatch there is will be the same for all measurements (e.g. in an IF substitution measurement, it's the Z looking into the measurement system's attenuator or amplifier). If you're trying to measure the output of a source with varying Z, then, of course, the mismatch will affect the net amount of power crossing the reference plane into the sensor, and you'll need to do that. But there are lots and lots of cases where a ham might make measurements to 0.1dB where the source Z is constant. (say, making noise temperature measurements of the sun with an antenna, or measuring the received signal from a distant transmitter.. same antenna, same physical location, same receiving system.. the measurement system isn't changing)

>
> Let's return to the claim, however. In fact, a typical power meter
> head DOES change its Z, and it is by this very physical reality that
> it performs power determination. You may be relying on a specific and
> rather atypical head to support your argument. As you offer nothing
> in the way of your typical head's design to support another off-hand
> comment, we will have to wait for that coverage.

The datasheet for the head gives this. If you're looking at the thermistor/thermocouple mount style head, the Z looking into the head is basically that of the load resistor, which, if held at constant temperature (constant = within a few degrees), I doubt it changes more than a fraction of a percent. A diode head (like the 8481,8487, etc. for HP/Agilent meters) is also going to be pretty good. Agillent claims the increase in uncertainty for ALL causes from an extended temperature (0-50) over the specified 25 +/- 5 is something like 0.9%. Obviously, if want to dot is and cross ts, then you can actually measure it, but you'd only need to characterize it once

(that's the moderate care thing.. a lot of good metrology is just
record keeping).

There's also a change in Z with frequency (an issue if your transfer
cal standard is at a different frequency than your measurement
frequency; not the case in a relative measurement on an antenna
range), but again, you can either take the worst case in the data
sheet, or measure it yourself. That's sort of the difference beween
modern VNAs and old style measurements. The modern VNA uses a set of
cal standards that has properties determined by its mechanical
construction (e.g. short, open, thru) and does the arithmetic for
you. Even the <$1000 N2PK and TAPR VNAs do this. As long as you're
at the same temperature, it should be good.

>
> >so once you've measured YOUR head and keep
> >the data around, you're good to go for the future. (and do your tests
> >at the same temperature, don't use the head for a door stop, etc.)
>
> No, you do not make traceable measurements. Your statement of
> futurity is an illusion only. Within the context of HP's fine
> craftsmanship, it is a fairly safe illusion, but not into the
> unlimited future. The calibration cycle for an RF head AND its
> reference source (two sources of error) is 3 to 6 months where that
> calibration data would be amended and changed to follow the natural
> variation in characteristics. A skilled bench tech might trust the
> instrument out for several years for relative loss measurements, but
> absolute power determinations will have long lost their credentials.

I think that reasonable folks could differ on the concept of "required
calibration cycle" and "aging life"... It's not like the thermocouple
or load resistor in a power meter head has an aging process that
causes it to suddenly go out of cal after 6 months. More likely, the
cycle is a good blend of economics and the expected variation from a
typical rough and tumble bench environment. Most of the time, the
calibration cycle is more to make sure that the device hasn't
"broken". If your device is using something like a crystal
oscillator, then there IS an aging thing to worry about.

You have raised an interesting question, though, so I'll have to go
ask the folks at the cal lab to see if we have any long term data on,
say, a 848x head to see what sort of aging or changes there are.

>
> This repetition of the hard/tedious mantra has the odd appearance of
> an objection diminishing the importance of established procedures of
> power determination. It reduces the profession of precision
> electronics to the repetitive motions of a trained monkey.

No, I think you misunderstand "hard" in this context. It doesn't
require any special new thinking to do accurate power measurements.
The methodology is well known, as are the error sources, and the

evaluation of uncertainty. The "hard" part is reducing the uncertainties (i.e. the equipment design) in the first place or in choosing a measurement method that tends to cancel errors (e.g. Dicke switch radiometers use the same sensor for both reference and unknown measurement, eliminating sensor/sensor uncertainty, at the expense of the uncertainty due to the switch). The tedious part is in being careful, doing repeated measurements, controlling the environment, and then grinding the math.

> that crude metric of adjectives. Throwing more gear and procedure
> that is freely available (rather than as costly necessary) at the
> problem, compounds error outrageously.

I'd say "may" compound error.

> This, again, is an appeal to substituting just-plain-hard-work for
> accuracy. You fail to show any correlation to standards or their
> necessity. The effort you describe may well pay off in superlative
> precision; again, investing in resolution without paying for the cost
> of accuracy.

Or, perhaps, getting your accuracy from standards you DO have handy, rather than relying on the instrument's internal transfer standard. An example might be using thermal hot/cold loads to calibrate a radiometer rather than a calibrated diode noise source (where the diode was calibrated somewhere else against a thermal standard). If you don't have the diode (or the wherewithal to send it to NIST for calibration on their radiometer), then perhaps hard work and time can get you a comparison against something you CAN measure accurately (boiling LN2, boiling water, etc.).

> >Z is unconstrained. In a typical ham situation, these things probably
> >aren't the case.
>
> This appears to be yet another objection: "probably aren't the case."

The original post had to do with comparing measured antenna patterns against NEC models. That IS the case there.

>
>
> This was your choice of instrumentation; this was your choice of power
> determination. I have provided an incontrovertible example of how
> your off-hand assertion failed from your own choices. It doesn't get
> remarkably better however you decide to amend the conditions and those
> amendments certainly won't come close to your original off-hand
> observation of power determination of 0.1dB or less error.

I note that a later page in the same presentation shows absolute power measurement worst case uncertainty at 30 MHz of <0.02dB over a power range of -10 to -70 dBm (slide 47).. I just picked the 8902 arbitrarily as an example of something that I know can do relative measurements to this sort of accuracy (as opposed to, say, a Bird 43

watt meter, which cannot) to refute your original statement (paraphrased) that measurements to better than 0.5 dB were impractical.

>Some may appeal that their Relative Accuracy has the merit of Absolute Accuracy - until you ask them to measure the actual, absolute value of their ad-hoc standard. I have built primary standards and measured them to 7 places. Over several years they migrated in value by 2 of those least significant digits, but only in comparison to standards that had "aged" and been calibrated at a national primary standards laboratory. By themselves, I could have fooled myself (and perhaps others less sophisticated) that they were absolutely accurate to the extent of the number of digits my instruments could resolve.

--
So, you measured to 1E-7, and over several years, they changed by 1E-5? That's a whole heck of a lot better than 1E-2 (which is what 0.1dB implies). Those 3 orders of magnitude are why I think it's reasonable and plausible for hams to make measurements to 0.1dB.

--

http://hdl.handle.net/2014/18497 describes one measurement system I designed, built and calibrated. That paper was aimed at a more general audience and doesn't give much of the uncertainty analysis, but it can be found in the several dissertations based on the calibration station. There's nothing special in this system that couldn't be duplicated by a ham for HF or VHF use. Certainly, the NIST Type IV power meter (used in the system to measure the level of the reference source used to calibrate the receiver chain) is something eminently doable for ham use (See Larsen's paper from 1975) and mostly depends on a "really good" DVM for its accuracy.

Jim

109. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 00:53:24 UTC
From: kb9rqz@yahoo.com
Message-ID: <rufvl4l1r345pvi5frbq7p3rb1vmekdc6p@4ax.com>
Source record: 18583
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

110. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 02:53:59 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <qa50m4lp3vc44nl77dk9j2h8s5qrq9l8vt@4ax.com>
Source record: 18584
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Fri, 2 Jan 2009 01:35:16 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>However, the Cantenna relies on natural
>convection of the oil for cooling and the higher viscosity of commonly
>available silicone oils will limit the power handling capability of the
>Cantenna.

So, a low density fluid would be the better choice? If that were the
prime criteria, I would think that water or antifreeze would be the
best. If having convection currents agitate the fluid is important,
it would be easy enough to install a paddle stirrer and thermometer.
Oh wait. This is ham radio. Forget the thermometer.

I'm also wondering if the electrical characteristics of water are an
issue for an HF dummy load. Even if someone dumps salt water into the
paint can, the conduction losses to ground from the resistor to the
can ground can't be all that much below 30MHz.

Thermal Conductivity Viscosity
W/mK cSt @20c
Water 0.6 0.9
AF (glycol) 0.24 2.0
Water+AF 0.8(?) 1.5 50%/50%
Silicon Oil 0.1 varies radically
Mineral Oil 0.138 34.5
Fluorinert FC-77 0.063 0.75

Ok, I see why. Water has 1/5th of the thermal conductivity of mineral
oil. 50/50 water and antifreeze won't work. That raises the boiling
point but ruins the thermal conductivity. Pure ethylene glycol looks
tolerable. Other than the health and ecology issues, any reason that
100% antifreeze won't work?

Incidentally my theory is that the Heath engineers of the 1960's used
mineral oil because that's what's inside a Lava Lamp. They were
probably designing Heathkit Lava Lamps but when that failed, they had
to do something useful with the mineral oil.

>Remember that the Cantenna must be de-rated when used for long
>duty cycles, and a high viscosity oil will lower the power rating still
>more. Also remember that silicone oils are not cheap (and my buddy at Dow
>would only send me small samples).

Well, if you want expensive and near perfect, there's 3M Fluoinert.
<http://en.wikipedia.org/wiki/Fluorinert>

<http://multimedia.3m.com/mws/mediawebserver?66666UuZjcFSLXTtnxTE5X46EVuQEcuZgVs6EVs6E6666
66-->
About $400/liter for recycled FC-77 and $2,200/liter for the new
FC-770 stuff from various 3M dealers. A 1 gallon cantenna required
3.78 liters or about $1,500 in recycled FC-77. For those hams that
want the very best. Gold plated paint can is optional.

>I would suggest using modern RF terminations made by Bourns and other
>companies. These are designed to be bolted to a large heatsink. The
>CHF9838CNF series is rated for 50 ohms, 250 watts, VSWR below 1.1 from DC
>to 2.2 GHz. It only costs $27.50 in single lot quantities. I think this
>is higher than the continuous rating of the Cantenna. I don't know for
>sure as I disposed of my Cantenna years ago. Digi-Key sells these Bourns
>terminations if you want one.

Nice. Thanks.
<http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=CHF9838CNF500L-ND>
<http://www.mouser.com/Search/Refine.aspx?Msid=65210000&Keyword=CHF9838CNF500L>
<http://www.bourns.com/data/global/PDFs/CHF9838CNF.pdf>
I kinda prefer to use 4ea 200 ohm loads in parallel. In a previous
power amp design, I had to dump 200 watts into a load if the antenna
failed. The thermal resistance of the flange mount was too high for
one device to handle the load at the rated temperatures. However, 4
devices did the trick.

> Barry L. Ornitz, PhD WA4VZQ
--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

111. Re: Look what I found

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 03:24:03 UTC
From: Telamon <telamon_spamshield@pacbell.net.is.invalid>
Message-ID: <telamon_spamshield-42D6D9.19240303012009@newsclstr02.news.prodigy.com>
Source record: 18585
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

In article <MrKdnTch3-Rle8LUnZ2dnUVZ_gKdnZ2d@earthlink.com>,
"Richard Knoppow" <dickburk@ix.netcom.com> wrote:

> "Dave" <dave@dave.dave> wrote in message
> news:tdidndvlEvl0UcPUnZ2dnUVZ_sUAAAAA@earthlink.com...
> > Richard Knoppow wrote:
> >> "Jeff Liebermann" <jeffl@cruzio.com> wrote in message
> >> news:djanl4pcb90bmmgldjmn2l31ppcp9mb55g@4ax.com...
> >>> On Wed, 31 Dec 2008 09:40:05 -0600, msg
> >>> <msg@_cybertheque.org_> wrote:
> >>>
> >>>> Dave wrote:
> >>>>> www.zerobeat.net/r3403c.pdf
> >>>> FWIW, MCRP 6-22D is also out there (I grabbed it 18
> >>>> months ago but didn't
> >>>> save the URL); it is pretty much the same thing.
> >>>> Michael
> >>> It's at:
> >>> <http://www.armymars.net/ArmyMARS/Antennas/Resources/usmc-antenna-hb.pdf>
> >>>
> >>>
> >>> --
> >>> Jeff Liebermann jeffl@cruzio.com
> >>> 150 Felker St #D http://www.LearnByDestroying.com
> >>> Santa Cruz CA 95060 http://802.11junk.com
> >>> Skype: JeffLiebermann AE6KS 831-336-2558
> >>
> >> Thanks for posting these links.
> >> These appear to be nearly identical. According to
> >> the forward in R3403C it is a later edition of MCRP
> >> 6-22D. Both have an error on page 11. In the chart
> >> showing surface conductivity the first two are reversed,
> >> that is, sea water should be marked "excellent" and fresh
> >> water "very good" not the other way as shown. Sea water
> >> is considered to be as close to a "perfect" ground as
> >> exists in nature. This error, and the fact that is was
> >> carried over into a later edition, suggest that the book
> >> was not proof read adequately and there may be other
> >> errors, perhaps less obvious. I wonder if any errata were
> >> ever published and if so if they are on line anywhere.
> >>
> >>
> > I too have noticed some slop and errors. No doubt

> > produced by cost plus civilian contractors.
>
> FWIW, I worked for Hewlett-Packard about forty years
> ago. At the time -hp- wrote all their own manuals. They
> experimented with farming out a manual, I forgot for just
> what instrument. It was so awful it was unusable and they
> re-did it in-house. All too often business people forget
> that the concomitant of "cheaper" is equal quality. The
> appalling junk coming out of China should be proof enough of
> this. Cheap but no bargain!
> Having said that this little book is mostly pretty
> good.

My RF test equipment preference was HP until around the time they changed to Agilent. Now you can always buy more performance for the dollar from someone else like Tektronix or Anritsu/Wiltron. You also get better technical support from any other equipment vendor than Agilent. The Agilent web site is even a nightmare to navigate.

But what really pisses me off about Agilent is the only communication I get from them is what can I buy now? I never get how is the equipment working for me or what features would I want in the future. I don't get notices about firmware/software updates from them either. Basically I have to navigate their obtuse web site to find out about equipment issues, workarounds or updates.

--
Telamon
Ventura, California

112. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 05:41:09 UTC
From: David Ryeburn <ryeburn@sfu.caz>
Message-ID: <ryeburn-DF49B4.21410903012009@morgoth.sfu.ca>
Source record: 18586
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

In article <qa50m4lp3vc44nl77dk9j2h8s5qrq9l8vt@4ax.com>,
Jeff Liebermann <jeffl@cruzio.com> wrote:

> I'm also wondering if the electrical characteristics of water are an
> issue for an HF dummy load. Even if someone dumps salt water into the
> paint can, the conduction losses to ground from the resistor to the
> can ground can't be all that much below 30MHz.

It's probably not worth much, but here's some anecdotal evidence. About 50 years ago several of us at W8LT (The Ohio State University amateur radio club) needed a low-power dummy load to be used at moderate frequencies (e.g. 20 meters). I came up with the idea of immersing a 2 watt, 51 ohm carbon resistor in a large glass of Columbus, Ohio tap water. We found that at 14 MHz putting the resistor under water made negligible change in observed SWR, which surprised me because Columbus water (unlike the stuff we're blessed with here in the Vancouver, BC area which comes right from the mountain snow-pack) was fairly hard. This also indicated that the water didn't put too much capacitance in parallel with the resistance. Water-cooling did allow the 2 watt resistor to absorb a fair bit more power than 2 watts, at least for a while until the water heated up too much.

> Thermal Conductivity Viscosity
> W/mK cSt @20c
> Water 0.6 0.9
> AF (glycol) 0.24 2.0
> Water+AF 0.8(?) 1.5 50%/50%
> Silicon Oil 0.1 varies radically
> Mineral Oil 0.138 34.5
> Fluorinert FC-77 0.063 0.75
>
> Ok, I see why. Water has 1/5th of the thermal conductivity of mineral
> oil.

It's still a heck of a lot better than air.

As I recall, we were in a hurry, we had the resistor, and we didn't have any suitable oil on hand.

David. ex-W8EZE

--
David Ryeburn
ryeburn@sfu.caz
To send e-mail, use "ca" instead of "caz".

113. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 05:59:58 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <m2k0m4datufvnpb0g8vnpn8hmv0d4ms0cb@4ax.com>
Source record: 18587

On Sat, 3 Jan 2009 16:50:39 -0800 (PST), jimlux@earthlink.net wrote:

>A ham seriously interested in 0.1 dB measurements will probably be
>able to scrounge up something to use as a transfer standard

Name one.

73's
Richard Clark, KB7QHC

114. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 06:11:54 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <i4k0m45j1mi631hg844t07c0rg47fsna45@4ax.com>
Source record: 18589

On Sat, 3 Jan 2009 16:50:39 -0800 (PST), jimlux@earthlink.net wrote:

>No.. if you KNOW the mismatch, it's not an uncertainty anymore.

Well Jim,

It is painfully obvious that you haven't done any of this and
dismissing error is easier said than done for you. The reference
material from the vendor of your choice obviously says quite the
opposite - so I can add very little that would lend any more authority
that you are so ready to discard for the sake of argument.

73's
Richard Clark, KB7QHC

115. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 06:13:07 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <6tj0m4ll1jbiumm5eo51e71jrbqfh63k2a@4ax.com>
Source record: 18588
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Sat, 03 Jan 2009 18:53:59 -0800, Jeff Liebermann <jeffl@cruzio.com>
wrote:

> Thermal Conductivity Viscosity
> W/mK cSt @20c
>Water 0.6 0.9
>AF (glycol) 0.24 2.0
>Water+AF 0.8(?) 1.5 50%/50%
>Silicon Oil 0.1 varies radically
>Mineral Oil 0.138 34.5
>Fluorinert FC-77 0.063 0.75

Air 0.025
Copper 370.
Diamond 1000.

>Ok, I see why. Water has 1/5th of the thermal conductivity of mineral
>oil. 50/50 water and antifreeze won't work. That raises the boiling
>point but ruins the thermal conductivity. Pure ethylene glycol looks
>tolerable. Other than the health and ecology issues, any reason that
>100% antifreeze won't work?

Sorry, I goofed. Vicodin etc. It should be the higher the W/mK, the
better the thermal conductivity.

So why is Fluorinert favored for cooling when it has such a lousy
thermal conductivity?
<http://multimedia.3m.com/mws/mediawebserver?66666UuZjcFSLXTtnxTE5X46EVuQEcuZgVs6EVs6E6666
66-->
Since it's usually circulated with a pump and involves direct
immersion, is it because of it's low viscosity and superior electrical
characteristics?

It would also appear that water has 5 times the thermal conductivity
than mineral oil. So, why use mineral oil?

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

116. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 06:24:55 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <1EY7l.16757$ZP4.7941@nlpi067.nbdc.sbc.com>
Source record: 18590
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Jeff Liebermann wrote:
> On Sat, 03 Jan 2009 18:53:59 -0800, Jeff Liebermann <jeffl@cruzio.com>
> wrote:
>
>> Thermal Conductivity Viscosity
>> W/mK cSt @20c
>> Water 0.6 0.9
>> AF (glycol) 0.24 2.0
>> Water+AF 0.8(?) 1.5 50%/50%
>> Silicon Oil 0.1 varies radically
>> Mineral Oil 0.138 34.5
>> Fluorinert FC-77 0.063 0.75
>
> Air 0.025
> Copper 370.
> Diamond 1000.
>
>> Ok, I see why. Water has 1/5th of the thermal conductivity of mineral
>> oil. 50/50 water and antifreeze won't work. That raises the boiling
>> point but ruins the thermal conductivity. Pure ethylene glycol looks
>> tolerable. Other than the health and ecology issues, any reason that
>> 100% antifreeze won't work?
>
> Sorry, I goofed. Vicodin etc. It should be the higher the W/mK, the
> better the thermal conductivity.
>
> So why is Fluorinert favored for cooling when it has such a lousy
> thermal conductivity?
> <http://multimedia.3m.com/mws/mediawebserver?66666UuZjcFSLXTtnxTE5X46EVuQEcuZgVs6EVs6E66
6666-->
> Since it's usually circulated with a pump and involves direct
> immersion, is it because of it's low viscosity and superior electrical
> characteristics?
>
> It would also appear that water has 5 times the thermal conductivity
> than mineral oil. So, why use mineral oil?
>

It doesn't turn to steam or otherwise evaporate.

Dave WD9BDZ

117. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 06:31:43 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lqk0m4te9lo42g1bmk89ig0jjv5b267quo@4ax.com>
Source record: 18592

On Sat, 3 Jan 2009 16:50:39 -0800 (PST), jimlux@earthlink.net wrote:

>The datasheet for the head gives this.

Can you quote this instead of making vague references? If you could,
then you would - this is simply more off-hand commentary....

> If you're looking at the
>thermistor/thermocouple mount style head,

This reveals you don't know which - each technology is very different
in operation and characteristic; much less sensitivity and power
limitation, Z shift, temperature characteristic, circuit topology, and
reference requirement to support the accuracy you suggest.

> the Z looking into the head
>is basically that of the load resistor, which, if held at constant

IF? Basically? You don't really know - and it appears that what
doesn't serve your defense doesn't matter.

>temperature (constant = within a few degrees),

a speculative FEW degrees! You really are wandering the wilderness
here.

>I doubt it changes more than a fraction of a percent.

Doubt? No metrics, except for the half-hearted guess that isn't even
close because you cannot settle on any single sensor, much less the
actual sensor!

>A diode head (like the 8481,8487, etc.
>for HP/Agilent meters) is also going to be pretty good.

Where the temperature characteristic of a diode is a power function?
This is growing more extravagant by each added sentence. You now have
wandered the landscape of power sensing through three technologies,
none of which you can pin down to the actual application, and without
any marked experience in the limitations of any of them.

>Agillent
>claims the increase in uncertainty for ALL causes from an extended
>temperature (0-50) over the specified 25 +/- 5 is something like
>0.9%.

And the claim is for what, specifically? The box or the head? I've
offered links to authoritative resources and specific entries, can you
recite your own or is this stuff now the domain of monkeys in lab

coats?

73's
Richard Clark, KB7QHC

118. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 06:32:23 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gjpl5q$8go$1@news.albasani.net>
Source record: 18591
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Jeff Liebermann wrote:

>> ...
>> ... The thermal resistance of the flange mount was too high for
> one device to handle the load at the rated temperatures. However, 4
> devices did the trick.
>
>> Barry L. Ornitz, PhD WA4VZQ

Yeah, all that, and then try to sink 5KW+ into a paint can ... 20 X 1000 ohm resistors is very minimum, in a tubular aluminum heat-sink-no less, in my humble opinion ... as when you are in key-down, and your attention is diverted, things can get warm, quickly, or so it seems!

Regards,
JS

119. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 06:37:36 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <50m0m450lm2mau42vt8085dod81fkirl8l@4ax.com>
Source record: 18593

On Sat, 3 Jan 2009 16:50:39 -0800 (PST), jimlux@earthlink.net wrote:

>I think that reasonable folks could differ on the concept of "required
>calibration cycle" and "aging life"...

This is called delusional.

>It's not like the thermocouple
>or load resistor in a power meter head has an aging process that
>causes it to suddenly go out of cal after 6 months.

This proves it. "Suddenly" - is a manufactured argument if ever one
was offered. You keep the "suddenly" as a trophy, and the rest of us
will be content with the natural progression of aging that doesn't
need to be forced into a spike to serve the convolution of argument.

73's
Richard Clark, KB7QHC

120. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 07:19:18 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <dgm0m4ptqtv3hak8bsdlap4vsgpsmqvgfg@4ax.com>
Source record: 18594

On Sat, 3 Jan 2009 16:50:39 -0800 (PST), jimlux@earthlink.net wrote:

>>Some may appeal that their Relative Accuracy has the merit of Absolute
>>Accuracy - until you ask them to measure the actual, absolute value of
>>their ad-hoc standard. I have built primary standards and measured
>>them to 7 places. Over several years they migrated in value by 2 of
>>those least significant digits, but only in comparison to standards
>>that had "aged" and been calibrated at a national primary standards
>>laboratory. By themselves, I could have fooled myself (and perhaps
>>others less sophisticated) that they were absolutely accurate to the
>>extent of the number of digits my instruments could resolve.
>
>--
>So, you measured to 1E-7, and over several years, they changed by
>1E-5? That's a whole heck of a lot better than 1E-2 (which is what
>0.1dB implies).

I have accurately calibrated instruments beyond the resolution of
1E-12, but not for power. Metrology encompasses many physical and
electrical phenomenon. The standard mentioned above was a resistor,
not power. I said it was a primary standard, not a sensor.

Would the atypical Ham have the capacity to build a standard resistor?
Sure. Could that atypical Ham qualify the standard resistor? Maybe.
Could that atypical Ham calibrate the standard resistor? Not in
decade except by frequent shipment to the nearest primary standards
lab on their terms of calibration frequency - which would be very
frequent given the lack of aging. In that sense, the atypical Ham is
wholly incapable of calibration beyond the sense of it being performed
through proxy. However, as you have already dismissed the frequency
of calibration to the whim of desire - what price performance?

Of course, that same atypical Ham could simply take one certificate of
accuracy for 1ppm and derate it to 0.1% and probably live with that
accuracy for the rest of his natural life. Unfortunately, 0.1%
accuracy at D.C. doesn't lend itself to precision, much less accuracy
at 50MHz. In fact, that standard resistor would probably be off by
several orders of magnitude (10,000% error). I feel safe in saying
"probably" because that error would be overwhelming to the point of
saturating disbelief.

>Those 3 orders of magnitude are why I think it's
>reasonable and plausible for hams to make measurements to 0.1dB.

Try fishing harder that simply throwing money at this.

You still don't have a METHOD for achieving this vaunted 0.1dB power determination, do you? Summoning up vague references to foggy characteristics isn't going to gather up even a 10% accurate determination.

> is something
>eminently doable for ham use (See Larsen's paper from 1975) and mostly
>depends on a "really good" DVM for its accuracy.

This is quite a joke. "Really good" indeed - you may as well add praying to an idol on an alter mounted in the corner of the shack to boost results.

>The original post had to do with comparing measured antenna patterns
>against NEC models. That IS the case there.

And I would say that you have done a job of mocking the performance Mac achieved which conformed to the best practices and METHODs offered in the modern links provided by me. Those best practices and METHODs have survived intact through the intervening decades because of their fundamental necessity. You haven't reduced any of his errors except by an automated sensor system. Given the other irreducible errors that still inhabited his measurements (something you have yet to respond to), power determination still resides in the domain of 10s of percent error.

The case is this error still eclipes your 0.1dB by a vast margin.

73's
Richard Clark, KB7QHC

121. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 08:21:43 UTC
From: Telamon <telamon_spamshield@pacbell.net.is.invalid>
Message-ID: <telamon_spamshield-ABEE13.00214304012009@newsclstr02.news.prodigy.com>
Source record: 18595
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

In article <6tj0m4ll1jbiumm5eo51e71jrbqfh63k2a@4ax.com>,
Jeff Liebermann <jeffl@cruzio.com> wrote:

> On Sat, 03 Jan 2009 18:53:59 -0800, Jeff Liebermann <jeffl@cruzio.com>
> wrote:
>
> > Thermal Conductivity Viscosity
> > W/mK cSt @20c
> >Water 0.6 0.9
> >AF (glycol) 0.24 2.0
> >Water+AF 0.8(?) 1.5 50%/50%
> >Silicon Oil 0.1 varies radically
> >Mineral Oil 0.138 34.5
> >Fluorinert FC-77 0.063 0.75
>
> Air 0.025
> Copper 370.
> Diamond 1000.
>
> >Ok, I see why. Water has 1/5th of the thermal conductivity of mineral
> >oil. 50/50 water and antifreeze won't work. That raises the boiling
> >point but ruins the thermal conductivity. Pure ethylene glycol looks
> >tolerable. Other than the health and ecology issues, any reason that
> >100% antifreeze won't work?
>
> Sorry, I goofed. Vicodin etc. It should be the higher the W/mK, the
> better the thermal conductivity.
>
> So why is Fluorinert favored for cooling when it has such a lousy
> thermal conductivity?

High resistivity
High dielectric strength
Low maintenance
Low corrosion = very compatible with most materials
Leaks don't cause more damage
low viscosity
Wide useful temperature range

> <http://multimedia.3m.com/mws/mediawebserver?66666UuZjcFSLXTtnxTE5X46EVuQEcuZg
> Vs6EVs6E666666-->
> Since it's usually circulated with a pump and involves direct
> immersion, is it because of it's low viscosity and superior electrical
> characteristics?

>
> It would also appear that water has 5 times the thermal conductivity
> than mineral oil. So, why use mineral oil?

DI water is very corrosive and requires stainless steel heat transfer radiators among other components. It is difficult to keep uncontaminated and you have to keep changing filters for example. Get a leak and it usually causes additional damage.

Mineral oil makes a mess and is old technology.

I know of one ATE manufacture that used DI water for cooling in the mainframe and test head. What a mistake that was. Every time they had a leak in the test head expensive boards got damaged.

--
Telamon
Ventura, California

122. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 10:06:46 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <6832b356-32fe-4d8f-9289-7483429b0b68@s20g2000yqh.googlegroups.com>
Source record: 18596
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Jan 4, 3:21 am, Telamon <telamon_spamshi...@pacbell.net.is.invalid>
wrote:
> In article <6tj0m4ll1jbiumm5eo51e71jrbqfh63...@4ax.com>,
> Jeff Liebermann <je...@cruzio.com> wrote:
>
>
>
>
>
> > On Sat, 03 Jan 2009 18:53:59 -0800, Jeff Liebermann <je...@cruzio.com>
> > wrote:
>
> > >   Thermal Conductivity   Viscosity
> > >   W/mK   cSt @20c
> > >Water   0.6   0.9
> > >AF (glycol)   0.24   2.0
> > >Water+AF   0.8(?)   1.5   50%/50%
> > >Silicon Oil   0.1   varies radically
> > >Mineral Oil   0.138   34.5
> > >Fluorinert FC-77 0.063   0.75
>
> > Air   0.025
> > Copper   370.
> > Diamond   1000.
>
> > >Ok, I see why. Water has 1/5th of the thermal conductivity of mineral
> > >oil. 50/50 water and antifreeze won't work. That raises the boiling
> > >point but ruins the thermal conductivity. Pure ethylene glycol looks
> > >tolerable. Other than the health and ecology issues, any reason that
> > >100% antifreeze won't work?
>
> > Sorry, I goofed. Vicodin etc. It should be the higher the W/mK, the
> > better the thermal conductivity.
>
> > So why is Fluorinert favored for cooling when it has such a lousy
> > thermal conductivity?
>
> High resistivity
> High dielectric strength
> Low maintenance
> Low corrosion = very compatible with most materials
> Leaks don't cause more damage
> low viscosity

> Wide useful temperature range
>
> > <http://multimedia.3m.com/mws/mediawebserver?66666UuZjcFSLXTtnxTE5X46E...
> > Vs6EVs6E666666-->
> > Since it's usually circulated with a pump and involves direct
> > immersion, is it because of it's low viscosity and superior electrical
> > characteristics?
>
> > It would also appear that water has 5 times the thermal conductivity
> > than mineral oil. So, why use mineral oil?
>
> DI water is very corrosive and requires stainless steel heat transfer
> radiators among other components. It is difficult to keep uncontaminated
> and you have to keep changing filters for example. Get a leak and it
> usually causes additional damage.
>
> Mineral oil makes a mess and is old technology.
>
> I know of one ATE manufacture that used DI water for cooling in the
> mainframe and test head. What a mistake that was. Every time they had a
> leak in the test head expensive boards got damaged.
>
> --
> Telamon
> Ventura, California- Hide quoted text -
>
> - Show quoted text -

No kidding on how messy mineral oil can be. I had a leak in a
recirculating pump and it put about 20 gal of oil on the carpeted
floor of the radar site. We had to take up the carpet and the asphalt
tile. The floor is now bare concrete because carpet is forbidden
around oil and the concrete will not take adhesive to put down new
tile.

Jimmie

123. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 15:03:57 UTC
From: HankG <hgxrp@yahoo.com>
Message-ID: <gjqj4r$932$1@news.motzarella.org>
Source record: 18597
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"Allodoxaphobia" <bit-bucket@config.com> wrote in message
news:slrnglt9jd.1hjp.bit-bucket@shell.config.com...
> On Fri, 02 Jan 2009 15:36:17 -0500, Billy Burpelson wrote:
>>
>> I am a bit puzzled. IIRC, the silicone in women's breast implants
>> would/could/did leak and cause fairly serious health problems. Yet, Dr.
>> Ornitz says "Silicone oils are excellent from a health standpoint" and
>> Mr. Smith says: "food grade".
>>
>> Could anyone take a shot at explaining this apparent dichotomy?
>
> Plaintiffs' lawyers and defendants' lawyers....

In the food industry, it is necessary to provide lubricants, coolants, etc.,
for the proper operation of equipment and preparation of product. The same
holds true in the pharmaceutical/medical device industries, where silicone
(medical grade 360) is used to lubricate rubber stoppers which are inserted
by machine into vials, etc.

There are at least 2 classifications: (1) product contact, and (2)
incidental product contact. These are essentially the same; just a matter
of degree.

They (silicones) are not a food ingredient.

HankG

124. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 16:35:09 UTC
From: Dave <noone@nowhere.com>
Message-ID: <1z58l.3096$BC4.1737@nwrddc02.gnilink.net>
Source record: 18598

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:5d2f43a6-ee77-46cc-bb98-a1636fce76d2@t39g2000prh.googlegroups.com...
>Many a post has been written since that day castigating the very idea
>of equivalence to Maxwell,w
>even questioning the propriety of the mathematics. So far nobody has
>concurred with Dr Davis
>with respect to the math that he presented. You David stated that the
>mathematical stance taken was illegal

i said that his addition of 't' to the equation was unnecessary since the law already applies for all time. and it is a perfectly good static law as it is, and that is how it is applied in maxwell's equations already. you have failed completely to show any good reason why maxwell's equations, as published in so many places and used for so many years, are not complete and correct as they are. you keep handwaving and trying to add in the weak farce and your magical levitating diamagnetic neutrinos with no mathematical support... just a lot of handwaving and bloviating. but don't let me stop you, i enjoy the rants and off the wall pronouncements, keep it up, its great fun to watch!

125. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 18:00:44 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <cfd25186-3e53-4db5-9bfe-0f8a1814a0b0@t26g2000prh.googlegroups.com>
Source record: 18599

On Jan 4, 10:35 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:5d2f43a6-ee77-46cc-bb98-a1636fce76d2@t39g2000prh.googlegroups.com...
>
> >Many a post has been written since that day castigating the very idea
> >of equivalence to Maxwell,w
> >even questioning the propriety of the mathematics. So far nobody has
> >concurred with Dr Davis
> >with respect to the math that he presented. You David stated that the
> >mathematical stance taken was illegal
>
> i said that his addition of 't' to the equation was unnecessary since the
> law already applies for all time. and it is a perfectly good static law as
> it is, and that is how it is applied in maxwell's equations already. you
> have failed completely to show any good reason why maxwell's equations, as
> published in so many places and used for so many years, are not complete and
> correct as they are. you keep handwaving and trying to add in the weak
> farce and your magical levitating diamagnetic neutrinos with no mathematical
> support... just a lot of handwaving and bloviating. but don't let me stop
> you, i enjoy the rants and off the wall pronouncements, keep it up, its
> great fun to watch!

My positions

I have never said that Maxwells laws with correction is incorrect.
Period

The correction added was the weak force as dictated by Newtons laws on
equilibrium

Foucoults discovery of eddy currents solidified the addition of
Maxwells correction

By additins to Gaussian law of statics to make it a dynamic field is
equal to the
Laws of Maxwell thus justifying the presence of particals instead of
waves

Dr Davis provided the mathematics to show that the extension to Gauss
equals Maxwells laws
Antenna programs by adhering to Maxwells laws include the four std
forces one of which
is the weak force This group as a unit denied the viability of what
was presented

The above is proven via optimizer programs that result in tipped verticle radiators
Computer programs based on MoM provide a closer approximation with respect to radiation than
designs of planar designs because they utelise the existance of the weak force.

Laws of continuity do not apply to fractional radiators as closed a circuit is
provided by current flow thru the center

There is no basis for introducing reflections from the end of a radiator
which has sporned a illigitamate science of it's own

Nobody to my knoweledge has pointed to the Gaussian law of statics to supplant the
presence of waves with that of particles which also extends to light

Eddy currents use is shown universally as a levitating force on diamagnetic materials
a methos used in sorting materials in scrap recovery yards.

Neutrinos / particles have an accepted appearance on this Earth via migration from the Sun
and which does contain mass.

Now David the above brings you back to the reality and not your wandering, there is no hand waving !
If you wish to be specific about a particular point or add a statement that you wish to be added to the above
as pointing to a basic difference in the facts then be my guest. This newsgroup is intended for the discussion of antennas and radiation a position I respect.

I recognise that with the above statements I am overturning facts that are presently accepted where all the statements is a continuity
of showing that the law of statics when made into a arbritary dynamic field in equilibrium provides for the addition
of equilibrium and particles together with particle spin provided by the action of the weak force in the science of radiation

Art Unwin KB9MZ.....xg (uk)

126. The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 18:55:21 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <7os1m4d6par1ptmlum6l147mhtbomhbn80@4ax.com>
Source record: 18600

In recent correspondence we have been regaled with the possibilities, the probabilities, the certainties that some fastidious, and well-heeled Ham "could" achieve the determination of RF power to within 0.1dB of its actual value.

This gives me considerable pause as to how that actual value was determined itself, but the explanation of that drifted into the fog of vague generalization and the dismiss of standards. I characterized this as delusional at worst, and simply fantasy short of being fantastically rich.

So, given the swings of claims that seem to hinge on access to exotic equipment, I was offered:

On Sat, 3 Jan 2009 , jimlux@earthlink.net wrote:
>A ham seriously interested in 0.1 dB measurements will probably be
>able to scrounge up something to use as a transfer standard
...
>The how to do it is all out there. What was "state of the art" for a
>national laboratory in 1970 is fairly straightforward garage work
>these days, and, a heck of a lot easier because you've got inexpensive
>automation for making the measurements and inexpensive computer power
>for doing the calibration calculations and uncertainty analysis.

None of these suggestions attended any actual real application beyond the thread's discussion of measuring power from an antenna in a high power RF field from a nearby (10s of wavelengths distant, perhaps) transmitter.

The quote above fairly encompass the solution in Jim's own words. There were certainly more words, and they can be appended to this thread or those above amended as Jim sees fit to force the outcome to match the claim. However, I would like to see something a little more real than fanciful.

This would include a real METHOD and BUDGET for the claim:
On Tue, 23 Dec 2008 10:29:05 -0800, Jim Lux <james.p.lux@jpl.nasa.gov>
wrote:
>At HF and VHF, you should be able to do power measurements to a tenth of
>a dB, with moderate care.

1. That budget (with an ironic eye towards the language's claim of "moderate") is a generous $1000 - with that budget being invested solely towards the measurement (and not in the capital equipment of transmitter and antenna) through the costs of ancillary equipment acquisition and of guarantees of absolute accuracy as further

described below.

2. That frequency is 14.1MHz.

3. That power is 10mW.

4. That application is measuring the full power applied from a 100W rated Ham grade transmitter/transceiver directly (or through a directional coupler) to
a. an unloaded quarterwave thin antenna sited over 120 half-wave radials placed slightly above, upon, or slightly below the ground (slightly being defined as that recommended by an NEC modeling tool for ground radial modeling); or
b. an unloaded halfwave thin antenna sited in free space.

5. That fully expressed tolerances for all components, capital and ancillary equipment involved where the budget also absorbs their cost of determination of their contribution to error.

6. That fully expressed tolerances for sources of system error.

7. That outcome of accuracy of power determination being applied to the nominal 100W of power at the load and not the nominal 10mW of power to the sensor.

* * * * * * * *

This will be a very short thread devoid of conclusion when the poster(s) suddenly become aware of the expense exceeding the budget. For those who challenge this artificial budgetary limitation, try asking Congress for a bailout.

73's
Richard Clark, KB7QHC

127. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 19:26:32 UTC
From: Dave <noone@nowhere.com>
Message-ID: <I388l.3120$BC4.2898@nwrddc02.gnilink.net>
Source record: 18451

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:cfd25186-3e53-4db5-9bfe-0f8a1814a0b0@t26g2000prh.googlegroups.com...
On Jan 4, 10:35 am, "Dave" <no...@nowhere.com> wrote:

<the summary of the complete idiocy snipped>

the one true thing he said:
>Art Unwin KB9MZ........xg (uk)

art, take all that, get it published in any journal on physics or
electromagnetics and i'll nominate you for the nobel prize!

128. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 19:34:20 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <691b377f-1a2b-4c44-b93b-256678fe1dc8@i24g2000prf.googlegroups.com>
Source record: 18452

On Jan 4, 12:00 pm, Art Unwin wrote:

> If you wish to be specific about a particular point...
>
> There is no basis for introducing reflections from the end of a
> radiator...

Specifically, Art, then how do you explain the result shown in the link below?

The reflection seen there is not imaginary, It is the result of a good, but not perfect termination by a UHF TV transmit antenna to about 1,500 feet of 75 ohm transmission line.

http://i62.photobucket.com/albums/h85/rfry-100/RFPulseMeasurement.gif

RF

129. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 20:12:20 UTC
From: Walter Maxwell <walt@w2du.com>
Message-ID: <IK88l.3301$716.1674@newsfe13.iad>
Source record: 18453

Measuring power to 0.1 dB? Jim, this is still January, April 1 is four months away. Aren't you a little early for April Fool's Day?

Walt, W2DU

130. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 20:43:06 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6a670b1f-7594-4a66-8d7f-7973e72f6ad4@a26g2000prf.googlegroups.com>
Source record: 18454

On Jan 4, 2:12 pm, "Walter Maxwell" <w...@w2du.com> wrote:
> Measuring power to 0.1 dB? Jim, this is still January, April 1 is four months
> away. Aren't you a little early for April Fool's Day?
>
> Walt, W2DU

Wow
Walter Maxwell has joined Richard Clark in an effort to label Jim in
front of everybody
as a fool. Thats right, these two bozoes have decided to gang up on
Jim trying to discrace him
because there is a difference of opinion. Jim was drawn into the
subject because he was not aware
of Richard's background and Walt joined in in an effort to cover up
Richards critisicm of his new aproach to make money i.e. his book
called reflections which is just a bunch of BS with respect what
happen s at the end of a fractional wave antenna.
He will get some money from unsuspecting hams to this group and maybe
roars of joy from some in the nasty stabbing of the poster named Jim.
Walter and Richard deserve each other in this personal attack on a
poster. Both of you need to join the kb9....poster who is intent
of disrupting this group by injecting rudeness and injury to its
members.
Art Unwin KB9MZ....xg (uk)

131. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 20:55:08 UTC
From: Walter Maxwell <walt@w2du.com>
Message-ID: <Pm98l.119018$sC4.105717@newsfe04.iad>
Source record: 18455

Richard, Art says we're bozos. Did you know that? I didn't. When did this come about? I don't believe I was born that way. Yeah, and when was it we decided to gang up on Jim? And what kind of a stabbing device did we plan to use on him? I can't remember.

And please, Art, did you have to put us in the same class as that kb9? I don't think Jim is the fool here.

Walt, W2DU

132. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 20:56:45 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <aa0d46cb-5912-4eb7-89bd-7dca594a48bc@p2g2000prn.googlegroups.com>
Source record: 18456

On Jan 4, 1:34 pm, Richard Fry <r...@adams.net> wrote:
> On Jan 4, 12:00 pm, Art Unwin wrote:
>
> > If you wish to be specific about a particular point...
>
> > There is no basis for introducing reflections from the end of a
> > radiator...
>
> ---------------
>
> Specifically, Art, then how do you explain the result shown in the
> link below?
>
> The reflection seen there is not imaginary, It is the result of a
> good, but not perfect termination by a UHF TV transmit antenna to
> about 1,500 feet of 75 ohm transmission line.
>
> http://i62.photobucket.com/albums/h85/rfry-100/RFPulseMeasurement.gif
>
> RF

You can send me a private e mail if you wish, but if you have a
problem that you
need adressing then make a separate thread/posting to the group as a
whole
with a suitable title relative to what you want to be addressed.
For myself I am not in your employ thus I am not required to follow
your demands
I am sure your requirements for an auguement can be addressed by you
in joining
other threads
Art Unwin KB9MZ

133. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 21:13:55 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <642dcccc-bc35-4637-ac1b-e69664a5b4d4@x16g2000prn.googlegroups.com>
Source record: 18457

```
On Jan 4, 1:26 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:cfd25186-3e53-4db5-9bfe-0f8a1814a0b0@t26g2000prh.googlegroups.com...
> On Jan 4, 10:35 am, "Dave" <no...@nowhere.com> wrote:
>
> <the summary of the complete idiocy snipped>
>
> the one true thing he said:
>
> >Art Unwin KB9MZ........xg   (uk)
>
> art, take all that, get it published in any journal on physics or
> electromagnetics and i'll nominate you for the nobel prize!

I just wanted to clear the field with respect to your wanderings from
what has been actually said by me
to establish the true basis of your attacks. That is why I have
restated again my position to combat your lies.
It is your idea that I should publish it not mine. I am happy to
supply a record of my work and will supply more as I procede.
It is not necessary to me to get aproval of what I present but I am
willing to debate possible errors in my work as long as it is directly
to the point
and not as a basis for mocking. This action is what I call a matter of
sharing my work to provide a difference viewpoint with respect to
radiation.
Initially it was demanded of me to supply the math and this has been
done by another person independently of any input from me. As a
doctor working for M.I.T I feel he is qualified enough on the subject
such that he deserved a hearing as well as a certain respect.
As yet nobody has shown any reason why the mathematics should not be
accepted so until that point comes about my work stands
Art Unwin KB9MZ
```

134. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 21:33:49 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <7531370f-fe2b-4cfa-96e2-033198272752@z27g2000prd.googlegroups.com>
Source record: 18458

On Jan 4, 2:56 pm, Art Unwin wrote:
> On Jan 4, 1:34 pm, Richard Fry <r...@adams.net> wrote:
>
> > Specifically, Art, then how do you explain the result shown in the
> > link below?

> I am not in your employ thus I am not required to follow your demands.

Yet you challenge others to respond to your posts here, when probably none is in your employ.

Your evasion of comment on r.r.a.a. to what I posted has the strong likelihood that either you didn't comprehend the meaning of the test report in my link, or that you did, and want to avoid the fact that it proves your belief about reflections to be invalid.

RF

135. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 21:54:16 UTC
From: Dave <noone@nowhere.com>
Message-ID: <cea8l.3409$Es4.303@nwrddc01.gnilink.net>
Source record: 18459

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:642dcccc-bc35-4637-ac1b-e69664a5b4d4@x16g2000prn.googlegroups.com...
> As a doctor working for M.I.T I feel he is qualified enough on the subject
>such that he deserved a hearing as well as a certain respect.

then get him to come back and explain himself, you obviously can't
understand what he was talking about if he is that far above you.

>As yet nobody has shown any reason why the mathematics should not be
>accepted so until that point comes about my work stands

you haven't shown any math that could be disproven... besides adding one 't'
to an equation that didn't need it.

136. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 22:11:36 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <94d84a9a-249b-4bea-ba74-18df194f4119@35g2000pry.googlegroups.com>
Source record: 18460

On Jan 4, 2:55 pm, "Walter Maxwell" <w...@w2du.com> wrote:
> Richard, Art says we're bozos. Did you know that? I didn't. When did this come
> about? I don't believe I was born that way. Yeah, and when was it we decided to
> gang up on Jim? And what kind of a stabbing device did we plan to use on him? I
> can't remember.
>
> And please, Art, did you have to put us in the same class as that kb9? I don't
> think Jim is the fool here.
>
> Walt, W2DU

Walter both you and Richard take a delight in hurting people as your
histories shows.
I suppose you can call anybody who opposes you in a discussion
personal insults,
names or anything else to achieve your aim to harm those who do not
provide an
alliance with you and what you say. Both of you have done it many
times before
and will probably do it again to unsuspecting posters. I just want to
ensure that
newcomers recognise both of you for what manner of men (should I use
that term?)
you actually are. Forewarned means fore armed and that goes for your
crappy book also
that you hawk for money with hams on the pretence you are supplying
scientific hams
and not the unsuspoecting :"
ordinary "hams.
And YES I put you in the same class as KB9......
since your intention of destruction to this newsgroup is the same as
his
as you have just shown by this ugly attack with intent to hurt.
You and Richard deserve his companionship as you are like people in
what you do
Art Unwin KB9MZ

137. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 22:27:57 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5fe9a5cf-000d-4138-a798-86c16d35605e@r37g2000prr.googlegroups.com>
Source record: 18461

On Jan 4, 3:54 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:642dcccc-bc35-4637-ac1b-e69664a5b4d4@x16g2000prn.googlegroups.com...
>
> > As a doctor working for M.I.T I feel he is qualified enough on the subject
> >such that he deserved a hearing as well as a certain respect.
>
> then get him to come back and explain himself, you obviously can't
> understand what he was talking about if he is that far above you.
>
> >As yet nobody has shown any reason why the mathematics should not be
> >accepted so until that point comes about my work stands
>
> you haven't shown any math that could be disproven... besides adding one 't'
> to an equation that didn't need it.

You are welcome to your opinion! To change my thoughts how ever you
need to provide fact that specifically
address what I state as what is untrue. If you can't be specific in
providing relavent discussion
then I am comfortable with what I have found.
I would love to read something that addresses my findings
that prove them to be in error so I may rethink my position, a
position that any
engineer should be happy to do rather than throwing things to hurt.
I have made no effort to hide my identity as the owner of the stated
thoughts.
The foundation of my work is the elargement of a static law to make it
a dynamic field in accordance with the laws of Maxwell.
Since you and others have rejected the feasability of that aproach as
well as the accompanying math I see no reason why you should pursue
me! I agree to disagree, what is so wrong with that?
Art
I am open to changing my mind if proven in error but the fact is that
all I get is diversions to discuss at the behest of other posters

138. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 22:44:13 UTC
From: richardharrison@webtv.net
Message-ID: <19664-49613BBD-8011@storefull-3172.bay.webtv.net>
Source record: 18462

Art wrote:
"I recognise that with the above atatements I am overturning facts that are accepted where all the statements is a continuity of showing that the law of statics when made into a arbitrary dynamic field in equilibrium provides of equilibrium and particles together with particle spin provided by the action of the weak force in the science of radiation."

Bafflegab! Who needs it?

Clayton R. Paul and Syed A. Nasar on page 2 of "Introduction To Electromagnetic Fields":
"In 1864, Maxwell proposed "A Dynamical Theory of the Electromagnetic Field" and thus unified the experimental researches of over a century through a set of equations known as Maxwell`s equations. These equations were later verified experimentally by Hertz in 1887. It is generally accepted that all macroscopic electromagnetic phenomena are governed by Maxwell`s equations."

No corrections or addenda are needed.

Best regards, Richard Harrison, KB5WZI

139. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 23:34:42 UTC
From: richardharrison@webtv.net
Message-ID: <19664-49614792-8031@storefull-3172.bay.webtv.net>
Source record: 18464

Art wrote:
"And YES I put you in the same class as KB9...."

Art is overheated.

0.1 dB could be a power gain of 1.02 or 0.977.

If the power were 100, and the power read 102 or 98 that would be about 0.1 dB (from Terman`s Handbook).

My Bird Model 43 has a specified accuracy of +5% or -5% of the full-scale meter reading. It is a reasonably accurate meter for field use. If the scale was 100 and it should be reading 50, it could read 55 or 45 and be within specification.

My usual hope when making commercial measurements was within 1.0 dB.

Best regards, Richard Harrison, KB5WZI

140. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-04 23:36:38 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <TFb8l.10405$D32.6593@flpi146.ffdc.sbc.com>
Source record: 18463

Art Unwin wrote:
> On Jan 4, 2:12 pm, "Walter Maxwell" <w...@w2du.com> wrote:
>> Measuring power to 0.1 dB? Jim, this is still January, April 1 is four months
>> away. Aren't you a little early for April Fool's Day?
>>
>> Walt, W2DU
>
> Wow
> Walter Maxwell has joined Richard Clark in an effort to label Jim in
> front of everybody
> as a fool. Thats right, these two bozoes have decided to gang up on
> Jim trying to discrace him
> because there is a difference of opinion. Jim was drawn into the
> subject because he was not aware
> of Richard's background and Walt joined in in an effort to cover up
> Richards critisicm of his new aproach to make money i.e. his book
> called reflections which is just a bunch of BS with respect what
> happen s at the end of a fractional wave antenna.
> He will get some money from unsuspecting hams to this group and maybe
> roars of joy from some in the nasty stabbing of the poster named Jim.
> Walter and Richard deserve each other in this personal attack on a
> poster. Both of you need to join the kb9....poster who is intent
> of disrupting this group by injecting rudeness and injury to its
> members.
> Art Unwin KB9MZ....xg (uk)

Calm down, Art, it's a disagreement, not an assassination. If you'll
just wait a day or two, you'll most likely learn something.
73,
Tom Donaly, KA6RUH

141. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 00:31:03 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <92a0b6e9-f2c0-4872-ad17-67a75fa3a5b7@b38g2000prf.googlegroups.com>
Source record: 18465

On Jan 4, 5:36 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> Art Unwin wrote:
> > On Jan 4, 2:12 pm, "Walter Maxwell" <w...@w2du.com> wrote:
> >> Measuring power to 0.1 dB? Jim, this is still January, April 1 is four months
> >> away. Aren't you a little early for April Fool's Day?
>
> >> Walt, W2DU
>
> > Wow
> > Walter Maxwell has joined Richard Clark in an effort to label Jim in
> > front of everybody
> > as a fool. Thats right, these two bozoes have decided to gang up on
> > Jim trying to discrace him
> > because there is a difference of opinion. Jim was drawn into the
> > subject because he was not aware
> > of Richard's background and Walt joined in in an effort to cover up
> > Richards critisicm of his new aproach to make money i.e. his book
> > called reflections which is just a bunch of BS with respect what
> > happen s at the end of a fractional wave antenna.
> > He will get some money from unsuspecting hams to this group and maybe
> > roars of joy from some in the nasty stabbing of the poster named Jim.
> > Walter and Richard deserve each other in this personal attack on a
> > poster. Both of you need to join the kb9....poster who is intent
> > of disrupting this group by injecting rudeness and injury to its
> > members.
> > Art Unwin KB9MZ....xg (uk)
>
> Calm down, Art, it's a disagreement, not an assassination. If you'll
> just wait a day or two, you'll most likely learn something.
> 73,
> Tom Donaly, KA6RUH

You are probably correct but he called him a fool not that he was
mistaken
\so he meant to hurt. I am not willing to stand by for a day and do
nothing
for his defence. I have my faults I suppose
Best regards
Art

142. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 01:02:06 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <60a0ac78-d4ff-4124-bb0d-4809f896e60f@r15g2000prh.googlegroups.com>
Source record: 18466

On Jan 4, 4:44 pm, richardharri...@webtv.net (Richard Harrison) wrote:
> Art wrote:
>
> "I recognise that with the above atatements I am overturning facts that
> are accepted where all the statements is a continuity of showing that
> the law of statics when made into a arbitrary dynamic field in
> equilibrium provides of equilibrium and particles together with particle
> spin provided by the action of the weak force in the science of
> radiation."
>
> Bafflegab! Who needs it?
>
> Clayton R. Paul and Syed A. Nasar on page 2 of "Introduction To
> Electromagnetic Fields":
> "In 1864, Maxwell proposed "A Dynamical Theory of the Electromagnetic
> Field" and thus unified the experimental researches of over a century
> through a set of equations known as Maxwell`s equations. These equations
> were later verified experimentally by Hertz in 1887. It is generally
> accepted that all macroscopic electromagnetic phenomena are governed by
> Maxwell`s equations."
>
> No corrections or addenda are needed.
>
> Best regards, Richard Harrison, KB5WZI

Bull.
Maxwell made an addition to the laws provided.
It was this addition he was lauded for. The addition he made
was to bring the formula suplied to him for condensing by justifying
the = sign
which is required for mathematics to show equilibrium exists and
Newtons law was being followed.
What he did was to ensure that all the units designated added up to
zero. To do this he added the Maxwell correction
which he named as the displacement current now designated as the root
of skin depth resistance.
It was decades later that Foucault found a match that satisfied the
metrics that Maxwell addedto satify the requirements of mathematics.
Maxwell supplied no evidence of experimentation of his own at that
time and was functioning as a mathematician
in the condensing of laws established by others via
experimentation ,.
the majority of which were seen to be duplicates.
I have read nothing that disputes the above account tho the lack of

communication during those times suggest that it was others
like Heaviside and Green and many others were the owners of various
discoveries such that arrangements were changed to disguise theft.
This same problem is still occuring in academia where a scientist was
laid off after a discovery he made and the remaining two scientists
took ownership of this years Nobel prize..
Some books condense this history by ommision but these acts do not
rewrite history or apply redactions to the white paper he wrote
that still exists.Now Richard, if your posting was made to suggest
something else you are welcome to respond.

143. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 01:18:45 UTC
From: Walter Maxwell <walt@w2du.com>
Message-ID: <Zdd8l.92971$X05.67302@newsfe03.iad>
Source record: 18467

Art, I may be a bozo in your mind, but apparently you lack a sense of humor. My jibe at Jim was in fun, and I'm sure he took it that way. I'm also sure he wasn't in any way hurt by my humor, which in your own mind seems to think he was.

Walt

144. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 02:58:23 UTC
From: richardharrison@webtv.net
Message-ID: <23936-4961774F-8558@storefull-3171.bay.webtv.net>
Source record: 18468

Art wrote:
"-----i.e. his book called "Reflections" which is just a bunch of BS with respect to what happens at the end of a fractional wave antenna."

Everyone should have access to the 3rd. edition of "Antennas" by Kraus, Marthelka, and associates. It is a true treasure. On page 177 is found Figure 6-7, Approximate natural-current distribution for thin, linear, center-fed antennas of various lengths.`

In each case, at the open-circuit end current drops to near zero. No surprise, as Terman says on page 866 of his 1955 opus:
"Under most circumstances the losses are sufficiently low and the ratio of wire length to diameter sufficiently great so that to a first approximation the current distribution can be taken as that for a line with zero losses; it then has the characteristics discussed in Sec. 4-5."

Section 4-5 is titled: "The Effect of Attenuation on Voltage and Current Distribution".

Point is that antennas share current distribution characteristics with transmission lines, and Sec. 4-5 is in Terman`s Chapter 4 (Transmission Lines). This chapter starts on page 82 of "Electronic And Radio Engineering" from that wonderful year 1955. The transmission line chapter shows in excellent detail how incident and reflected waves combine, and the energy patterns produced on antennas as well as on lines.

Walter Maxwell is in-step with Terman and Kraus.

Best regards, Richard Harrison, KB5WZI

145. Re: QSL.Net and QTH.Net Announcement ~ 73 - Al Waller [K3TKJ]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 03:18:34 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <41aeaca5-2b44-48f3-83f8-943b920bea5e@c36g2000prc.googlegroups.com>
Source record: 18469
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.swap

On Jan 1, 7:34 pm, RHF <rhf-newsgro...@pacbell.net> wrote:
> QSL.Net and QTH.Net Announcement ~ 73 - Al Waller [K3TKJ]http://www.qsl.net/index.html
> .
> QSL.Net and QTH.Net "Server Migration Update"
> -from- Scott [KA9FOX]http://www.qsl.net/index.html
> .
> ~ RHF
> .

=STATUS= QSL .Net and QTH.Net Server Migration
It is expected that on Monday morning 5 JAN 2009.
The sites back online ASAP after the data is received.
-per- Scott [KA9FOX]
.

146. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 03:51:18 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a6aef7aa-ac07-4abf-bdda-af9cd1df1009@k1g2000prb.googlegroups.com>
Source record: 18470

On Jan 4, 8:58 pm, richardharri...@webtv.net (Richard Harrison) wrote:
> Art wrote:
>
> "-----i.e. his book called "Reflections" which is just a bunch of BS
> with respect to what happens at the end of a fractional wave antenna."
>
> Everyone should have access to the 3rd. edition of "Antennas" by Kraus,
> Marthelka, and associates. It is a true treasure. On page 177 is found
> Figure 6-7, Approximate natural-current distribution for thin, linear,
> center-fed antennas of various lengths.`
>
> In each case, at the open-circuit end current drops to near zero. No
> surprise, as Terman says on page 866 of his 1955 opus:
> "Under most circumstances the losses are sufficiently low and the ratio
> of wire length to diameter sufficiently great so that to a first
> approximation the current distribution can be taken as that for a line
> with zero losses; it then has the characteristics discussed in Sec.
> 4-5."
>
> Section 4-5 is titled: "The Effect of Attenuation on Voltage and Current
> Distribution".
>
> Point is that antennas share current distribution characteristics with
> transmission lines, and Sec. 4-5 is in Terman`s Chapter 4 (Transmission
> Lines). This chapter starts on page 82 of "Electronic And Radio
> Engineering" from that wonderful year 1955. The transmission line
> chapter shows in excellent detail how incident and reflected waves
> combine, and the energy patterns produced on antennas as well as on
> lines.
>
> Walter Maxwell is in-step with Terman and Kraus.
>
> Best regards, Richard Harrison, KB5WZI

What does it take for you to understand that I am NOT in agreement
with the books?
Your lemmings aproach that if it is printed in a book it must be true
is just not my style.
'I see no discontinuety at the ends of the antenna so the law on
discontinuity does not apply..
I do see a discontinuity in a transmission line so the laws on
discontinuity do apply..
As in the past I have stated why I am not in agreement with the books
as I cannot justify it via first principles.

I have asked for input as to what the discontinuity is that creates a reflection which requires the application of the law.
nobody has explaned to my satisfaction the position taken by the books. My suspicion is that idea of discontinuity was assigned prior to the Foucault discovery when the pertinent facts were unknown tho I do suspect some residences are wired with an open circuit in lines to save wire and thus costs required for a closed circuit
Grin

147. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 05:03:25 UTC
From: richardharrison@webtv.net
Message-ID: <27515-4961949D-2533@storefull-3173.bay.webtv.net>
Source record: 18471

Art wrote:
"As in the past I stated why I am not in agreement with the books as I cannot justify the principles."

On the topic of current distribution, I believe my eyes. I`ve plotted the current distribution of all the elements, driven and parasitic, in an HF curtain antenna array of 4 bays and reflectors. During the data acquisition it was driven by a 50 KW transmitter.

We hung thermoammeters in loops suspended below the elements and towed them along with ropes while we read them using the transit`s telescope. We recorded the readings at regular intervals. As you already guessed they conformed very well to the curves printed in all the books that art disdains (smiley face).

We also checked signal strengths in targeted countries and compared them with a reference half-wave dipole suspended at the same elevation as the center of the array and replacing it for 5 minutes on a 5-minute cycle. The characteristics of the new array coincided with the design and scaled model tests very well.

Seeing is believing!

Best regards, Richard Harrison, KB5WZI

148. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 05:26:18 UTC
From: jimlux@earthlink.net
Message-ID: <f5dfd3c7-d4df-42f2-bddf-e12bf6d3271c@d36g2000prf.googlegroups.com>
Source record: 18472

On Jan 4, 10:55 am, Richard Clark <kb7...@comcast.net> wrote:
> In recent correspondence we have been regaled with the possibilities,
> the probabilities, the certainties that some fastidious, and
> well-heeled Ham "could" achieve the determination of RF power to
> within 0.1dB of its actual value.
>
> >At HF and VHF, you should be able to do power measurements to a tenth of
> >a dB, with moderate care.
>
> 1. That budget (with an ironic eye towards the language's claim of
> "moderate") is a generous $1000 - with that budget being invested
> solely towards the measurement (and not in the capital equipment of
> transmitter and antenna) through the costs of ancillary equipment
> acquisition and of guarantees of absolute accuracy as further
> described below.
>
> 2. That frequency is 14.1MHz.
>
> 3. That power is 10mW.
>
> 4. That application is measuring the full power applied from a 100W
> rated Ham grade transmitter/transceiver directly (or through a
> directional coupler) to
> a. an unloaded quarterwave thin antenna sited over 120 half-wave
> radials placed slightly above, upon, or slightly below the ground
> (slightly being defined as that recommended by an NEC modeling tool
> for ground radial modeling); or
> b. an unloaded halfwave thin antenna sited in free space.
>
> 5. That fully expressed tolerances for all components, capital and
> ancillary equipment involved where the budget also absorbs their cost
> of determination of their contribution to error.
>
> 6. That fully expressed tolerances for sources of system error.
>
> 7. That outcome of accuracy of power determination being applied to
> the nominal 100W of power at the load and not the nominal 10mW of
> power to the sensor.
>
> * * * * * * * *
>
> This will be a very short thread devoid of conclusion when the
> poster(s) suddenly become aware of the expense exceeding the budget.
> For those who challenge this artificial budgetary limitation, try

> asking Congress for a bailout.
>
> 73's
> Richard Clark, KB7QHC

No problem. Send money. This is, after all, something I do for a living. I assume, of course, that your $1000 budget assumes labor is free? (the usual situation for ham measurements)

As you are well aware, most of the cost of accurate (and perhaps precise) measurements that are calibrated is not in the equipment, but in the knowledge and effort in making the measurement and doing the uncertainty analysis to prove that what you say is the measurement is within some known distance of the measurand. After all, one could beat your $1000 budget by saying that you should start with sand and iron ore, and invest copious effort in smelting, refining, machining, etc... Certainly, the cost of preparing the uncertainty analysis is low, being paper and pencil, aside from the labor. The books sold by Lindsay Books might be an example of how one can start with scrap metal, and wind up with a machine shop, albeit at the investment of substantial time.

If one has to pay for the skilled labor, either directly, or indirectly by buying a piece of equipment designed, manufactured, or calibrated by someone else, it's another thing entirely, eh?

I will concede that there is a catch.. if one is investing one's free labor, it is conceivable that the time required to start from first principles and raw materials would be long enough that your standards or equipment would drift enough to prevent achieving the measurement accuracy needed. It's the "you can't use a striped snake as a scale/ ruler, because it keeps moving and growing" problem.

However, from an academic perspective, your challenge is interesting. It would be interesting to see a decent article in QST or QEX that would describe readily achievable measurement accuracies for hams (and do away with that horrible term you see in ads and equipment reviews: "lab-grade"). Interesting, but not as interesting as other things I might spend my free time on.

Jim, W6RMK

149. Re: NEC Evaluations

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 05:39:12 UTC
From: jimlux@earthlink.net
Message-ID: <0ce9bc3a-8115-4472-9d74-c287da70ded9@r36g2000prf.googlegroups.com>
Source record: 18473

> The case is this error still eclipes your 0.1dB by a vast margin.
>
> 73's
> Richard Clark, KB7QHC

Look.. you're asking for specifics and details. That's out of scope for a discussion like this. In the context of a discussion list, to which all of us contribute as an avocation (at least, I suspect that nobody is getting paid to participate in rec.anything), I assert, with some casual backup, that it is possible for an amateur to make power measurements such as those to validate a NEC model to an accuracy of 0.1dB. You assert that it isn't, and ask that I provide details beyond my casual assertion.

We can go back and forth about metrology, but, realistically, I'm not about to go dragging out data sheets and doing an uncertainty analysis which is of very little value to me, personally, and realistically, of little value to anyone on this list.

As with many precision measurement problems, the method has to fit the thing being measured, so to spend a lot of time and effort on any arbitrary contrived example (such as the one in this thread) isn't necessarily going to be general or applicable to any other examples. So why beat ourselves up about it.

The folks who pay me seem to be happy with the measurements I do (and I assure you, I do measurements or generate signals to better precision than we've been talking about here, some are even published in the peer reviewed literature) . The folks who pay you are presumably happy with the measurements you do. Neither of them pay us to solve ham radio's problems.

Pace,

Jim

150. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 06:30:27 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <lm83m4def5plebi665eobvgcvb0an7mnqt@4ax.com>
Source record: 18474

On Sun, 04 Jan 2009 10:55:21 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>well-heeled Ham "could" achieve the determination of RF power to
>within 0.1dB of its actual value.

RF power at 14.1MHz or including all the spurs and harmonics that come
with it? They're probably not much of an issue with the typical ham
100watt xmitter, but certainly are a problem with QRP hardware that
sometimes has no output LPF of any kind.

Also, do you want the 50 ohm terminated RF power, or measured through
the line to a random antenna load?

>3. That power is 10mW.

0.1dB is about 2.3% accuracy. Plenty of lab grade hardware around,
but none with 10mw full scale sensor:
<http://www.bird-electronic.com/products/subcategory.aspx?sid=79>

However, with a $1000 prize, I guess something cheaper will be
required. How about a:
<http://www.ohr.com/wattmeter.htm>
Not anywhere near as accurate as you want, but for a single 14.1Mhz
frequency, I would have no problem using a properly calibrated signal
generator to create a calibration chart. Also, some environmental
isolation and a temperature compensation chart will be useful.

Ummm..... why do you need such accuracy? Is there some kind of QRP
ultra low power contest that I don't know about? Amateur metrology?

Send the $1000 to the address below.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

151. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 07:16:26 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <xti8l.92997$X05.27357@newsfe03.iad>
Source record: 18475

"JB" <nospam@goofball.net> wrote in message
news:Djq7l.2631$BC4.1732@nwrddc02.gnilink.net...
> >> Mineral Oil (available at your local drug store).
> > >
> > > Just be prepared for some strange looks when you purchase a gallon of
> > > mineral oil all at once. :-O
> >
> > Is motor oil a conductor?
>
> Might burn and sludge up your resistor. Lots of additives you just don't
> need.
>
> I had a cantenna for 20 years with light mineral oil. there was a little
> seepage to the top of the lid through the vent. I actually had
transformer
> oil but never used it because of the thought of that stuff seeping. It
> really is a lot cleaner. Check feed stores, Vet supply stores, paint
> stores, hardware. Check this out:
> http://www.pugetsystems.com/submerged.php
>

When I was in the Navy, we had some gear that used a high power TWT. It was immersed in a bath of a fluorocarbon called FC-75, trade name Fluorinert. Good heat conductor, great insulator, totally inert. Supposedly, you could drink it. It's still around. Google FC-75 and wikipedia will tell you all about it. $68/ten gallons is a little pricey for my Cantenna but you might not think so.

Here's a summary of that chemical family's characteristics for the curious:
http://www.acota.co.uk/products/fluorinert-electronic-liquids

152. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 12:16:09 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <HWm8l.8113$pr6.127@flpi149.ffdc.sbc.com>
Source record: 18476

Richard Harrison wrote:
> Point is that antennas share current distribution characteristics with
> transmission lines, ...

Here is a transmission line simulation of half of a
dipole in free space. The resistivity of the wire has
been adjusted to simulate radiation loss resulting in
a feedpoint impedance of 35 ohms.

http://www.w5dxp.com/stub_dip.EZ

If the line is terminated in its Z0 impedance of
approximately 620 ohms, the current distribution
clearly shows the forward current including phase
shift.
--
73, Cecil http://www.w5dxp.com

153. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 12:24:08 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <FZm8l.13368$c45.3073@nlpi065.nbdc.sbc.com>
Source record: 18477

Art Unwin wrote:
> 'I see no discontinuety at the ends of the antenna so the law on
> discontinuity does not apply..
> I do see a discontinuity in a transmission line so the laws on
> discontinuity do apply..

A #14 horizontal wire 30 feet above ground is a "single-
wire above-ground transmission line" line with a
Z0 = 138*log(4D/d) = 600 ohms where 'd' is the diameter
of the wire and 'D' is the height above ground. The ground
is the other half of the transmission line.
--
73, Cecil http://www.w5dxp.com

154. Nagoya NA-701

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 12:54:18 UTC
From: Kris <kkomaricaMAKNI@OVOgmail.com>
Message-ID: <gjsvuu$g2j$1@localhost.localdomain>
Source record: 18478

Hello

Is Nagoya NA-701 tuned for 144-148 mhz (american ham band) or just 144-146 mhz as used in europe.
Tnx!

73

155. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 14:03:04 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ed3d22d7-61e5-4741-96bc-fecd68321d47@g3g2000pre.googlegroups.com>
Source record: 18479

On Jan 5, 6:24 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > 'I see no discontinuety at the ends of the antenna so the law on
> > discontinuity does not apply..
> > I do see a discontinuity in a transmission line so the laws on
> > discontinuity do apply..
>
> A #14 horizontal wire 30 feet above ground is a "single-
> wire above-ground transmission line" line with a
> Z0 = 138*log(4D/d) = 600 ohms where 'd' is the diameter
> of the wire and 'D' is the height above ground. The ground
> is the other half of the transmission line.
> --
> 73, Cecil http://www.w5dxp.com

Common aurgument revolve about accounterbility for surrounding
fields. Your " transmission line" is hardly a conventional one to use
in such auguements
But then again my abilities in this area are not sufficient for
auguement or debate which is why I ask questions
Best regards
Art

156. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 16:45:53 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <49623947$0$590$c5fe31e7@reader.usenet4all.se>
Source record: 18480
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"John Smith" <assemblywizard@gmail.com> wrote in message
news:gjpl5q$8go$1@news.albasani.net...
> Jeff Liebermann wrote:
>
> >> ...
>>> ... The thermal resistance of the flange mount was too high for
>> one device to handle the load at the rated temperatures. However, 4
>> devices did the trick.
>>
>>> Barry L. Ornitz, PhD WA4VZQ
>
> Yeah, all that, and then try to sink 5KW+ into a paint can ... 20 X 1000
> ohm resistors is very minimum, in a tubular aluminum heat-sink-no less, in
> my humble opinion ... as when you are in key-down, and your attention is
> diverted, things can get warm, quickly, or so it seems!
>
>
That's where the crisco comes in handy!
>
>
>
> Regards,
> JS

157. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 16:46:45 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <4962397b$0$590$c5fe31e7@reader.usenet4all.se>
Source record: 18481
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
"HankG" <hgxrp@yahoo.com> wrote in message
news:gjqj4r$932$1@news.motzarella.org...
>
> "Allodoxaphobia" <bit-bucket@config.com> wrote in message
> news:slrnglt9jd.1hjp.bit-bucket@shell.config.com...
>> On Fri, 02 Jan 2009 15:36:17 -0500, Billy Burpelson wrote:
>>>
>>> I am a bit puzzled. IIRC, the silicone in women's breast implants
>>> would/could/did leak and cause fairly serious health problems. Yet, Dr.
>>> Ornitz says "Silicone oils are excellent from a health standpoint" and
>>> Mr. Smith says: "food grade".
>>>
>>> Could anyone take a shot at explaining this apparent dichotomy?
>>
>> Plaintiffs' lawyers and defendants' lawyers....
>
> In the food industry, it is necessary to provide lubricants, coolants,
> etc., for the proper operation of equipment and preparation of product.
> The same holds true in the pharmaceutical/medical device industries, where
> silicone (medical grade 360) is used to lubricate rubber stoppers which
> are inserted by machine into vials, etc.
>
> There are at least 2 classifications: (1) product contact, and (2)
> incidental product contact. These are essentially the same; just a matter
> of degree.
>
> They (silicones) are not a food ingredient.
>
>
The crisco is!
>
>
> HankG
>
```

158. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 17:00:09 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <49623c9f$0$587$c5fe31e7@reader.usenet4all.se>
Source record: 18482
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"Billy Burpelson" <billy@burpelsonafb.net> wrote in message
news:_Zy7l.12686$YU2.7375@nlpi066.nbdc.sbc.com...
>
>> "RF BURNS" <rfburns422@yahoo.com> wrote in message
>> news:495e88fe$0$17069$6e1ede2f@read.cnntp.org...
>>> "KC8QJP" <KC8QJP@yahoo.com> wrote in message
>>> news:495cdbce$0$589$c5fe31e7@reader.usenet4all.se...
>>>> a crisco can works well
>>>>
>>> http://www.radiobanter.com/showpost.php?p=130773&postcount=1
>
> Dave wrote:
>
>> leave the crisco in it and after tuning up you can fry your dinner!
>
> ...and fry your arteries with all the cholesterol!
>
>
We make deep fried fatback sandwiches with it.

159. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 17:06:47 UTC
From: richardharrison@webtv.net
Message-ID: <25093-49623E27-149@storefull-3172.bay.webtv.net>
Source record: 18483

Art wrote:
"Bull."

Maxwell published and his equations have been successfully used ever since.

My ARRL Antenna Book says in its chapter on "Computer Programs":
"The availability of computers in the 1960s provided antenna designers with an alternative. They could develop software to simulate the performance of antennas. In general, these techniques either numerically solve Maxwell`s equations by discretizing the problem using intergral techniques such as Moment Methods (MOM) as discussed in Sec. 14-11, or differential techniques such as finite elements or finite difference-time domain."

Is the "Antenna Book" bull too?

Best regards, Richard Harrison, KB5WZI

160. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 17:17:02 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <23d4m4pvc8iu7123vjm10eriolmjj5pqq8@4ax.com>
Source record: 18484

On Sun, 4 Jan 2009 21:26:18 -0800 (PST), jimlux@earthlink.net wrote:

>After all, one could beat
>your $1000 budget by saying that you should start with sand and iron
>ore, and invest copious effort in smelting, refining, machining,
>etc... Certainly, the cost of preparing the uncertainty analysis is
>low, being paper and pencil, aside from the labor. The books sold by
>Lindsay Books might be an example of how one can start with scrap
>metal, and wind up with a machine shop, albeit at the investment of
>substantial time.

Well Jim,

"Beating" the budget is a strange progression toward tackling a
problem, couched in sentimentality worthy of "Tess of the
D'Urbervilles."

Half that budget could buy the RF Head to the HP 8902 measuring
receiver. In my various standards labs, we would rent it for a month
at 1/10th the cost. $50 and fully traceable with an equivalent of
$9500 acquisition potential available from a budget barely nicked. If
you prefer to build it up from components of sand and iron, an abject
collapse of alternative solutions, then the remaining budget has no
utility. The defeatism of "sand and iron ore" capped that off
majestically.

I well anticipated that putting a budget to this would cast a pall of
failure if this problem's solution were cut off from infinite
resource. I'm amused it came with the sallowness of antiquity.

On Sun, 4 Jan 2009 21:39:12 -0800 (PST), jimlux@earthlink.net wrote:
>I'm not
>about to go dragging out data sheets and doing an uncertainty analysis
>which is of very little value to me, personally, and realistically, of
>little value to anyone on this list.

I would tend to agree that technology, accuracy, scientific method,
measurement, and bench work have very little to do with the parade of
ego that passes as correspondence here. Typically, lurkers and those
put off by this lack of substance in response to their postings here
approach me through email for technical resolution.

However, I am happy to accord to the recreational purpose in posting
to the group. Many have expressed value in my own poesy. I am
willing to admit that value runs both positive and negative - Art
would strangle on his spit if he didn't have a target. ;-)

73's
Richard Clark, KB7QHC

161. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 18:07:24 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b0239676-593d-43c2-ab60-a4e211ec7c63@o40g2000prn.googlegroups.com>
Source record: 18485

On Jan 5, 11:06 am, richardharri...@webtv.net (Richard Harrison)
wrote:
> Art wrote:
>
> "Bull."
>
> Maxwell published and his equations have been successfully used ever
> since.
>
> My ARRL Antenna Book says in its chapter on "Computer Programs":
> "The availability of computers in the 1960s provided antenna designers
> with an alternative. They could develop software to simulate the
> performance of antennas. In general, these techniques either numerically
> solve Maxwell`s equations by discretizing the problem using intergral
> techniques such as Moment Methods (MOM) as discussed in Sec. 14-11, or
> differential techniques such as finite elements or finite
> difference-time domain."
>
> Is the "Antenna Book" bull too?
>
> Best regards, Richard Harrison, KB5WZI

O.K. you win. Maxwell never did add the correction factor later to be
known as the displacement factor.
It is not known how that addition came about as Gauss Faraday and
others never included it in their findings
It is known however, that the name assigned to this addition was by
Maxwell while others were watching T.V.
Obviously somebody had sneaked in an addition to the supplied data
while others were engrossed on the T.V.
as the football game was ongoing.
Maxwell and computer programs were not mentioned at that time nor was
the ARRL handbook, these came about much later
where the antenna was viewed as a vanishingly thin radiator where the
inside diameter was too small to non existent because of the skin
depth that met each other from both side thus cutting of passage of
anything from the top of a radiator.
Because of the reflection created by the thin radiator the current
refersed direction and travelled down much faster as the circular
fiels
now aided the flow of current instead of resisting it like it did on
the upward direction. Richard, right on. You have got it right without
a doubt. I am now convinced. Presumably you are happy now you have
been vindicated and can now put your pen and pencil down.

162. Re: The $1000 Power Measurement Challenge

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 18:29:22 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <34j4m4dm32pau1cs83vqigkeks52upfs14@4ax.com>
Source record: 18486

On Sun, 04 Jan 2009 22:30:27 -0800, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>On Sun, 04 Jan 2009 10:55:21 -0800, Richard Clark <kb7qhc@comcast.net>
>wrote:
>
>>well-heeled Ham "could" achieve the determination of RF power to
>>within 0.1dB of its actual value.
>
>RF power at 14.1MHz or including all the spurs and harmonics that come
>with it? They're probably not much of an issue with the typical ham
>100watt xmitter, but certainly are a problem with QRP hardware that
>sometimes has no output LPF of any kind.

Hi Jeff,

Power is heat in this particular scenario. All forms of heat
contribution lend to error. The specification (in part):
4. That application is measuring the full power applied from a 100W
rated Ham grade transmitter/transceiver
is sufficient and necessary for the challenge's purposes.

>Also, do you want the 50 ohm terminated RF power, or measured through
>the line to a random antenna load?
7. That outcome of accuracy of power determination being applied to
the nominal 100W of power at the load and not the nominal 10mW of
power to the sensor.

Consult the complete part 4 specification for alternatives in the
load.

>>3. That power is 10mW.
>
>0.1dB is about 2.3% accuracy. Plenty of lab grade hardware around,

That is why I selected that power level. An instrument does not
encompass a system, however.

>but none with 10mw full scale sensor:
><http://www.bird-electronic.com/products/subcategory.aspx?sid=79>

None? And this is in the same span of a paragraph regaling the
commonplace accessibility of lab grade hardware? I now have to ask
what kind of lab are you thinking of?

>However, with a $1000 prize,

Prize? Was the posting so long as for the purpose of $1000 to become
so aggrandized?

>I guess something cheaper will be
>required. How about a:
><http://www.ohr.com/wattmeter.htm>
>Not anywhere near as accurate as you want, but for a single 14.1Mhz
>frequency, I would have no problem using a properly calibrated signal
>generator to create a calibration chart. Also, some environmental
>isolation and a temperature compensation chart will be useful.

Accuracy is in the calibration. I have calibrated some pretty rough
looking gear to accuracies that better commercial equipment. The
specification was purposely tailored for Amateur application, to the
least constraint, to the maximum of accuracy, for the cheapest cost.

>Ummm..... why do you need such accuracy?

I don't.

>Is there some kind of QRP
>ultra low power contest that I don't know about?

Possibly. There are a multitude of activities you may be unaware of,
and I would be the last to know.

>Amateur metrology?

Yes, a conceptual strain apparently. In this age where the closest a
Ham gets to technology is pushing a credit card across the display
case for a new toy, this has proven to be asking for too much.

>Send the $1000 to the address below.

Send it for what? Do I sign as Treasury Secretary Paulson?

73's
Richard Clark, KB7QHC

163. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 19:52:12 UTC
From: richardharrison@webtv.net
Message-ID: <28979-496264EC-66@storefull-3171.bay.webtv.net>
Source record: 18487

Art wrote:
"You have got it right eithout a doubt. I am now convinced."

Iappreciate the concession. Maxwell by most accounts richly deserves the credit he won.

I received over a dozen books for Christmas all on electromagnetism. I am trying to become familiar with them. One of the group is, "The Holistic Inspirations of Physics" by Val Duser. Chapter 18 is titled: "Maxwell, Field Theory, and Mechanical Models". On page 274 it says: "In the history of the rise of the concept of the electromagnetic field, James Clerk Maxwell holds pride of place. Maxwell`s equations of electromagnetism are a part of classical physics least modified by the introduction of twentieth century theories. Maxwell`s equations trumped both Newtonian mechanics and classical thermodynamics in the formulation of relativity theory and quantum mechanics. Einstein modified Newton`s laws of motion in order to preserve Maxwell`s equations in special relativity. Max Planck modified the laws of dlassical thermodynamics (making energy discrete rather than continuous) to preserve Maxwell`s theory of radiation in early quantum theory." There`s more but I`ll not bore more. Read the book.

Best regards, Richard Harrison, KB5WZI

164. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-05 20:55:13 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <css4m4lrd1ofcus5lknbsjabu8glpvf4hs@4ax.com>
Source record: 18488

On Mon, 5 Jan 2009 13:52:12 -0600, richardharrison@webtv.net (Richard Harrison) wrote:

>I received over a dozen books for Christmas all on electromagnetism. I
>am trying to become familiar with them. One of the group is, "The
>Holistic Inspirations of Physics" by Val Duser. Chapter 18 is titled:
>"Maxwell, Field Theory, and Mechanical Models". On page 274 it says:
>"In the history of the rise of the concept of the electromagnetic field,
>James Clerk Maxwell holds pride of place. Maxwell`s equations of
>electromagnetism are a part of classical physics least modified by the
>introduction of twentieth century theories. Maxwell`s equations trumped
>both Newtonian mechanics and classical thermodynamics in the formulation
>of relativity theory and quantum mechanics. Einstein modified Newton`s
>laws of motion in order to preserve Maxwell`s equations in special
>relativity. Max Planck modified the laws of dlassical thermodynamics
>(making energy discrete rather than continuous) to preserve Maxwell`s
>theory of radiation in early quantum theory." There`s more but I`ll not
>bore more. Read the book.

Hi Richard,

A commendable selection to quote, and far from boring.

73's
Richard Clark, KB7QHC

165. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-06 01:03:13 UTC
From: kb9rqz@yahoo.com
Message-ID: <eeb5m41rf080jmggdd85sdd1ihjdgs7mn4@4ax.com>
Source record: 18489
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

166. Re: Nagoya NA-701

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-06 11:04:42 UTC
From: Harry H <harryharms@hotmail.com>
Message-ID: <eVG8l.8311$cu.1324@news-server.bigpond.net.au>
Source record: 18490

"Kris" <kkomaricaMAKNI@OVOgmail.com> wrote in message
news:gjsvuu$g2j$1@localhost.localdomain...
> Hello
>
> Is Nagoya NA-701 tuned for 144-148 mhz (american ham band) or just 144-146
> mhz as used in europe.
> Tnx!
>
> 73

I bought one and yes it does cover the full 144-148 Mhz band.
HH in Australia

167. Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-06 22:00:43 UTC
From: James barrett <xucaen@gmail.com>
Message-ID: <e1932b86-148c-491c-850a-2b799d54b2b7@n33g2000pri.googlegroups.com>
Source record: 18491

I've read some Q&A about ladder line and I didn't see exactly my question. I want to run 450 ohm ladder line into the house. my tuner has a built-in balun for a ladder line so I think I can just run the ladder line all the way to the tuner.

How do I physically attach the ladder line to the house? All I can think of is to nail it right through the spacers onto the side of the house. But I don't know if the nails will interfere with transmission at all.

A second that comes to mind when considering this setup: if I run the ladder line all the way to the tuner, how do I ground it?

Thanks,
kb1odg

168. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-06 22:30:47 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <rYQ8l.13513$c45.7161@nlpi065.nbdc.sbc.com>
Source record: 18492

James barrett wrote:
> How do I physically attach the ladder line to the house?

I use electric fence insulators.

> A second that comes to mind when considering this setup: if I run the
> ladder line all the way to the tuner, how do I ground it?

No RF ground required.
--
73, Cecil http://www.w5dxp.com

169. Re: Vertical Monopole Radiation Characteristics

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 00:54:07 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <9d4b16bd-fb99-4d98-87cd-5efeac1ecf79@p2g2000prf.googlegroups.com>
Source record: 18493

On Dec 31 2008, 4:10 pm, Roy Lewallen <w...@eznec.com> wrote:
> dBi is more than just dB. It's field strength (in dB) relative to a
> known standard.

Roy, certainly you must recognize that the term dBi is not a direct unit, or measure of field intensity (field strength). The direct, primary unit of measure of field intensity in accurate, common use is volts/meter (V/m).

The term dBi is only a measure of the relative gain of a particular radiator in particular directions stated in decibels with respect to an isotropic radiator.

Other things equal, the field intensity at a given location is determined by the gain of a transmit antenna system along paths serving that location ALONG WITH the matched, r-f power applied to the feedpoint of that antenna.

The gain of a transmit antenna system in dBi includes nothing about the absolute amount of power it radiates in various directions. Therefore by itself, antenna gain(s) in dBi cannot define the absolute field intensity in standard units/sub-units of V/m that such an antenna can produce at a given location.

Ergo "dBi" is not a measure of absolute field intensity (field strength).

RF

170. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 02:36:49 UTC
From: kb9rqz@yahoo.com
Message-ID: <u958m4d2fqo9sbslj380avbi5g7s5kc5lu@4ax.com>
Source record: 18494
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

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nor is Konstans@hotmail.com ever
btw i can be found at
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but the cowards asking lack the gut to act

171. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 04:44:03 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <onW8l.600$Ex.283@bignews8.bellsouth.net>
Source record: 18495

Some have tried using 1-ft lengths (or so) of PVC at the corners of the
house.
Cut a slot in one end of the PVC, put a nail-hole or two near the other
end - secure the line in the slot of the pvc using nylon ty-raps.

"James barrett" <xucaen@gmail.com> wrote in message
news:e1932b86-148c-491c-850a-2b799d54b2b7@n33g2000pri.googlegroups.com...
> I've read some Q&A about ladder line and I didn't see exactly my
> question. I want to run 450 ohm ladder line into the house. my tuner
> has a built-in balun for a ladder line so I think I can just run the
> ladder line all the way to the tuner.
>
> How do I physically attach the ladder line to the house? All I can
> think of is to nail it right through the spacers onto the side of the
> house. But I don't know if the nails will interfere with transmission
> at all.
>
> A second that comes to mind when considering this setup: if I run the
> ladder line all the way to the tuner, how do I ground it?
>
>
> Thanks,
> kb1odg

172. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 05:33:24 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <tcf8m4p1c89q790h6rnna5sakrvcukhf5p@4ax.com>
Source record: 18496

On Tue, 6 Jan 2009 14:00:43 -0800 (PST), James barrett
<xucaen@gmail.com> wrote:

>How do I physically attach the ladder line to the house?

<http://www.fishock.com/energizedFencing/insulators.htm>
<http://www.fencesafe.com/insulators.html>
<http://www.redhillgeneralstore.com/efwoodins.htm>
etc. Search for "electric fence insulators".

If you want to be really creative, you could just build a spacer from
ABS or PVC pipe, using a flange mount at one end, and a hole drilled
in the pipe to support the wire. Maybe a plastic "T" at the end to
support both wires on one insulator. Be creative.

No ground required for a balanced system. However, methinks it's a
good idea to ground the radio and the antenna tuner case.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

173. Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 07:05:01 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/recruitment-1-1231311901@panix.com>
Source record: 18497
Cross-posted to:
rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team. We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.
```

174. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 13:22:19 UTC
From: Dave <dave@dave.dave>
Message-ID: <-pOdndmoTa0WMfnUnZ2dnUVZ_uCdnZ2d@earthlink.com>
Source record: 18498

James barrett wrote:
> I've read some Q&A about ladder line and I didn't see exactly my
> question. I want to run 450 ohm ladder line into the house. my tuner
> has a built-in balun for a ladder line so I think I can just run the
> ladder line all the way to the tuner.
>
> How do I physically attach the ladder line to the house? All I can
> think of is to nail it right through the spacers onto the side of the
> house. But I don't know if the nails will interfere with transmission
> at all.
>
> A second that comes to mind when considering this setup: if I run the
> ladder line all the way to the tuner, how do I ground it?
>
>
> Thanks,
> kb1odg

Use coaxial cable to get through the wall, then a BalUn outside to
transition to the balanced transmission line.

175. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 14:22:30 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <8P29l.849$e13.131@bignews5.bellsouth.net>
Source record: 18499

"Dave" <dave@dave.dave> wrote in message
news:-pOdndmoTa0WMfnUnZ2dnUVZ_uCdnZ2d@earthlink.com...
> James barrett wrote:
>> I've read some Q&A about ladder line and I didn't see exactly my
>> question. I want to run 450 ohm ladder line into the house. my tuner
>> has a built-in balun for a ladder line so I think I can just run the
>> ladder line all the way to the tuner.
>>
>> How do I physically attach the ladder line to the house? All I can
>> think of is to nail it right through the spacers onto the side of the
>> house. But I don't know if the nails will interfere with transmission
>> at all.
>>
>> A second that comes to mind when considering this setup: if I run the
>> ladder line all the way to the tuner, how do I ground it?
>>
>>
>> Thanks,
>> kb1odg
>
> Use coaxial cable to get through the wall, then a BalUn outside to
> transition to the balanced transmission line.

I'm running a Van Gordon All Bander dipole. It utilizes 450 twinlead from the dipole, thru the barrier into the house and connects to the 4:1 balun in my MFJ-989C manual roller inductor tuner.

Instead of drilling a hole through the cinder blocks of my basement wall (finished), I made up a barrier insert from a piece of 2x4" lumber to fit under the lip of my window. I drilled two holes through the 2x4" lumber spaced at the same distance as the conductors in the twinlead. I then used a router bit to connect the dots. A very thin router bit. In fact, I think it was the bit from my cut in any direction saw that I bought several years ago and can't think of the name of it at the moment. They were all the rage on TV. It rotates like a drill bit or router bit. I hope you can follow me.

I made the cut in the barrier board for the twinlead tight enough that I haven't even bothered to silicone up the gap, it is that tight.

I haven't had any problems with it at all. No fires, no arcing, no scorching the wood. I think it would take a lot more power to do that than my 1kw Ameritron AL-80A can produce.

Is it a PITA (Pain In The Ass)? Yes. But it gets me any band that I want, including six meters (in fine fashion too). If you go the coax route, you'll end up with a G5RV that won't take more than 200 watts without frying the twinlead, or you'll end up with a trapped doublet that only gives you a few kilohertz operating bandwidth on most bands. Chances are that some bands will be unusable unless you have a good tuner (no, not an autotuner - they don't have enough "swing").

Running a piece of coax into twinlead with an antenna with high SWR can generate high enough voltages to punch a hole through the coax' dielectric. After that hole has been made, the voltage needed to jump that arc from then on will be much lower, meaning that your signal will sound crappy and you may have problems with your rig.

I put up with the 450 ohm twinlead all of the way into the house because it provides me with the most bands in the smallest space. It will also handle a kilowatt without protest.

Oh, I haven't seen a 4:1 balun that is worth what it costs to ship to your door that sells for less than $139. I've gone through three brands lately. Brands that were supposed to be (and used to be) top shelf. Makes me wish I had held on to the good one that I bought years ago. That'll learn me.

Good luck.

Ed, N2ECW

176. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 14:23:23 UTC
From: ltdoc@yahoo.com
Message-ID: <710ef265-ef86-4364-ba82-7b17c0c3a868@u18g2000pro.googlegroups.com>
Source record: 18500

James,
Since it's been a while since ladder line has been in common use, there aren't many 'standard' ways of doing things in common usage anymore. So, as long as you keep a few things in mind, your imagination will supply you with any number of 'ways' to do things. Sharp bends, being close to metal things, and 'deforming' the feed line's shape too much are things to avoid. After that, it's more or less whatever you can think of, sort of. Lot's of 'wiggle' room in that, your millage may vary, etc.
Good luck.
- 'Doc

177. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 14:25:58 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <34Bu9gb2tLZJFwD$@g3ohx.demon.co.uk>
Source record: 18351

In message <-pOdndmoTa0WMfnUnZ2dnUVZ_uCdnZ2d@earthlink.com>, Dave
<dave@dave.dave> writes
>James barrett wrote:
>> I've read some Q&A about ladder line and I didn't see exactly my
>> question. I want to run 450 ohm ladder line into the house. my tuner
>> has a built-in balun for a ladder line so I think I can just run the
>> ladder line all the way to the tuner.
>> How do I physically attach the ladder line to the house? All I can
>> think of is to nail it right through the spacers onto the side of the
>> house. But I don't know if the nails will interfere with transmission
>> at all.
>> A second that comes to mind when considering this setup: if I run
>>the
>> ladder line all the way to the tuner, how do I ground it?
>> Thanks,
>> kb1odg
>
>Use coaxial cable to get through the wall, then a BalUn outside to
>transition to the balanced transmission line.

Baluns don't like 'funny' impedances. Better to use 75 ohm twin through
the wall. If you don't have any lying around, maybe a bit of domestic
twin power cable/cord could be pressed into service.
--
Ian

178. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 15:34:10 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <df99041b-bced-4610-af89-17a6d9763313@z28g2000prd.googlegroups.com>
Source record: 18352

On Jan 3, 10:37 am, Art Unwin wrote:
> There is absolutely NO evidence that
> reflection occurs in any shape or form at the
> material ends of a radiator and all that pertains
> to such. PERIOD.

Art, the link below leads to empirical proof that such reflections exist.

H. Gihring and G. Brown of RCA measured the relative current distribution parallel to the axis of monopole radiators of several lengths and widths, using an r-f current probe driving a thermal meter.

The current distribution measured for the three radiator lengths plotted all show the presence of reflections from the top of the vertical wire, and in all three cases, current falls to zero at the end of the radiator.

These are all fractional wavelength radiators not meeting your definition of an antenna in "equilibrium."

This demonstrates that r-f current does not travel on the outside of a wire on the way to the open end, and return from the open end along a non-radiating path down the center of that conductor, as you believe.

http://i62.photobucket.com/albums/h85/rfry-100/CurrentOnWireAntennas.gif

RF

179. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 15:36:13 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <fii9m45bp196blrof01dt310oohuk8p3en@4ax.com>
Source record: 18353

On Wed, 07 Jan 2009 13:22:19 +0000, Dave <dave@dave.dave> wrote:

>James barrett wrote:
>> I've read some Q&A about ladder line and I didn't see exactly my
>> question. I want to run 450 ohm ladder line into the house. my tuner
>> has a built-in balun for a ladder line so I think I can just run the
>> ladder line all the way to the tuner.
>>
>> How do I physically attach the ladder line to the house? All I can
>> think of is to nail it right through the spacers onto the side of the
>> house. But I don't know if the nails will interfere with transmission
>> at all.
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>> A second that comes to mind when considering this setup: if I run the
>> ladder line all the way to the tuner, how do I ground it?
>>
>>
>> Thanks,
>> kb1odg
>
>Use coaxial cable to get through the wall, then a BalUn outside to
>transition to the balanced transmission line.

I've had good luck bringing 450-ohm line through the window using
MFJ's 4602 window feed through board. It has ceramic feed through
insulators for the balanced line, more feedthrough's for a random
wire, three coax lines and a ground wire. Even includes weather
stripping and a burgler bar.

Bob
k5qwg

180. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 16:30:35 UTC
From: Edward Feustel <efeustel@hughes.net>
Message-ID: <ruk9m4l83nqm2gpjp0g271eq2qbrf507em@4ax.com>
Source record: 18354

On Tue, 6 Jan 2009 14:00:43 -0800 (PST), James barrett
<xucaen@gmail.com> wrote:

>I've read some Q&A about ladder line and I didn't see exactly my
>question. I want to run 450 ohm ladder line into the house. my tuner
>has a built-in balun for a ladder line so I think I can just run the
>ladder line all the way to the tuner.
>
>How do I physically attach the ladder line to the house? All I can
>think of is to nail it right through the spacers onto the side of the
>house. But I don't know if the nails will interfere with transmission
>at all.
>
>A second that comes to mind when considering this setup: if I run the
>ladder line all the way to the tuner, how do I ground it?
>
>
>Thanks,
>kb1odg
James,
You don't mention whether your antenna is resonant or not.
Nor do you mention where your feed line enters the house.

I use 600 ohm ladder line to feed my 220 foot dipole from Antenna
tuner to Ten Tec L Tuner located near a basement window.

There are a number of problems that I have solved since my antenna
is between two trees about 300 feet apart.

I support it using Dacron rope at both ends. One end is fixed.
the other goes through a pulley to a 40 lb sealed box of cat litter.
This helps to prevent the destruction of the antenna by wind-
whipped trees.

The antenna may be overkill: #10 copperweld and W7FY feed line.
However, 40 lbs does not keep the antenna from flexing +-6-8 feet..
You need spring action of some sort to prevent the feed line from
being ripped loose from the house or point to which it is first
attached.

I use plain string/twine to make an attachment from house to a
spreader in the line. The string is adjusted so that the line is
straight to the point where the string is attached to the house entry
point and so that the line above where the string is attached is
"draped" providing the ability for the antenna to go up or down 6-8
feet from its normal position. Under NE ice conditions it does drop

that much and in high winds it can go up the 8 feet.

I bring the line into the house through a basement window in
which a Plexiglas insert has feed through insulators for external
ground and the feed line. The string limits tension and flex on those
insulators.

Feed line from the insulators goes to the tuner when operating
and to ground when not.

There are feed line lightning arrestors that use spark plugs as
grounding elements. I have not used these as I am worried
that standing wave voltage nodes that I have on the line might trigger
the spark plugs when running high power since I use the antenna
from 160-10 on CW and SSB.

If you have questions about my arrangement, I'll be happy to try
to answer them.

Ed, N5EI

181. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 16:46:55 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <LZ49l.1655$FM6.1045@flpi143.ffdc.sbc.com>
Source record: 18355

Ed Cregger wrote:
> Instead of drilling a hole through the cinder blocks of my basement wall
> (finished), I made up a barrier insert from a piece of 2x4" lumber to fit
> under the lip of my window.

MFJ offers six window-mounted feed through panels for such.
Their numbers are 4600-4605. MFJ-4600 has four balanced
and two coaxial feed-throughs.

> Oh, I haven't seen a 4:1 balun that is worth what it costs to ship to your
> door that sells for less than $139. I've gone through three brands lately.

If one doesn't know what magnitude of impedance is
being encountered by the balun, the best balun
solution is a husky 1:1 current (choke) balun, not
a 4:1 voltage balun which is designed to deal with
200 ohms, not 2000+j2000 ohms.
--
73, Cecil http://www.w5dxp.com

182. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 17:47:29 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <RU59l.2532$Db2.1298@edtnps83>
Source record: 18356

"James barrett" <xucaen@gmail.com> wrote in message
news:e1932b86-148c-491c-850a-2b799d54b2b7@n33g2000pri.googlegroups.com...
> I've read some Q&A about ladder line and I didn't see exactly my
> question. I want to run 450 ohm ladder line into the house. my tuner
> has a built-in balun for a ladder line so I think I can just run the
> ladder line all the way to the tuner.
>
> How do I physically attach the ladder line to the house? All I can
> think of is to nail it right through the spacers onto the side of the
> house. But I don't know if the nails will interfere with transmission
> at all.
>
> A second that comes to mind when considering this setup: if I run the
> ladder line all the way to the tuner, how do I ground it?
>
>
> Thanks,
> kb1odg

I have thought of running ladder line through the wood above the
basement wall, and accross the joists above a suspended ceiling.
My main concerns are: the very high field intesity on the plane of
the transmission line, and the high voltage present when using a
short dipole. For example with 100 W in; a 100 ft dipole, 55 ft
of transmission line on 1.9 MHz shows: 400 V/m (peak) only 6"
from each side of the ladder line, and a peak input voltage of
2.4 kV.

While the above is an extreme example I think some analysis
needs to be done before attempting such an instalation. With
all the satellite coax, and house wiring in the ceiling I wondered
how much TVI I would get. On 40 m I estimate about 8 V/m
(peak) from the antenna (1Kw out) at the TV. It is enough to
get into the remote control circuitry, and turn on the TV menu
blocking out the picture.

73,

Frank

183. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-07 22:21:12 UTC
From: Dave <noone@nowhere.com>
Message-ID: <sV99l.4663$Es4.658@nwrddc01.gnilink.net>
Source record: 18357

"Richard Fry" <rfry@adams.net> wrote in message
news:df99041b-bced-4610-af89-17a6d9763313@z28g2000prd.googlegroups.com...
On Jan 3, 10:37 am, Art Unwin wrote:
>> There is absolutely NO evidence that
>> reflection occurs in any shape or form at the
>> material ends of a radiator and all that pertains
>> to such. PERIOD.
>Art, the link below leads to empirical proof that such reflections
>exist.

don't confuse him with facts, especially facts out of books... they are all
out of date since they don't have his latest theories included in them.

184. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 02:56:02 UTC
From: ltdoc@yahoo.com
Message-ID: <512f778c-cbc9-4e0e-b579-c35980ecb5d2@40g2000prx.googlegroups.com>
Source record: 18358

Frank,
The 'simple' answer? Keep away from 'stuff' it may interfere with.
As for the worst case thing with high voltage? Change your antenna
arrangement.
How about hanging that ladder line from the suspended ceiling? Out of
the typical 'foot traffic zones'? Anyone asks, tell'em it's an RF
railroad line to your antenna. Sound crazy? so what, 'they' think
we're crazy anyway...
- 'Doc

185. discount Air max 95 shoeswww.gotoorder.cn

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 08:08:46 UTC
From: salewholehe@sina.com
Message-ID: <cc5c2921-430e-4760-a6b9-6d395f4b124f@i18g2000prf.googlegroups.com>
Source record: 18359
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

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For more products pls visit:www.gotoorder.cn

186. Re: QSL.Net and QTH.Net Announcement ~ 73 - Al Waller [K3TKJ]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 11:08:15 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <e87c3e81-084a-4c7d-a584-74e371b94659@r36g2000prf.googlegroups.com>
Source record: 18360
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.swap

On Jan 4, 7:18 pm, RHF <rhf-newsgro...@pacbell.net> wrote:
> On Jan 1, 7:34 pm, RHF <rhf-newsgro...@pacbell.net> wrote:
>
> > QSL.Net and QTH.Net Announcement ~ 73 - Al Waller [K3TKJ]http://www.qsl.net/index.html
> > .
> > QSL.Net and QTH.Net "Server Migration Update"
> > -from- Scott [KA9FOX]http://www.qsl.net/index.html
> > .
> > ~ RHF
> > .
>
> =STATUS= QSL .Net and QTH.Net Server Migration
> It is expected that on Monday morning 5 JAN 2009.
> The sites back online ASAP after the data is received.
> -per- Scott [KA9FOX]
> .

=STATUS= QSL .Net and QTH.Net Server Migration
Same Main WebPage Message for
QSL = http://www.qsl.net/#status
-and-
QTH = http://www.qth.net/#status
Both still appear to be a Work-in-Progress . . .

~ RHF
.

187. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 13:23:19 UTC
From: Dave <dave@dave.dave>
Message-ID: <3pCdnVqr6LrVY_jUnZ2dnUVZ_sHinZ2d@earthlink.com>
Source record: 18361

Bob Miller wrote:

>
> I've had good luck bringing 450-ohm line through the window using
> MFJ's 4602 window feed through board. It has ceramic feed through
> insulators for the balanced line, more feedthrough's for a random
> wire, three coax lines and a ground wire. Even includes weather
> stripping and a burgler bar.
>
> Bob
> k5qwg

That's through a window, not through a wall. I use the MFJ myself.

If I did want to use non-resonant antennas I would locate a tuner at the antenna feedpoint, not at the generator (transmitter).

188. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 13:50:33 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <Stn9l.1190$Ex.912@bignews8.bellsouth.net>
Source record: 18362

"Dave" <dave@dave.dave> wrote in message
news:3pCdnVqr6LrVY_jUnZ2dnUVZ_sHinZ2d@earthlink.com...
> Bob Miller wrote:
>
>>
>> I've had good luck bringing 450-ohm line through the window using
>> MFJ's 4602 window feed through board. It has ceramic feed through
>> insulators for the balanced line, more feedthrough's for a random
>> wire, three coax lines and a ground wire. Even includes weather
>> stripping and a burgler bar.
>>
>> Bob
>> k5qwg
> That's through a window, not through a wall. I use the MFJ myself.
>
> If I did want to use non-resonant antennas I would locate a tuner at the
> antenna feedpoint, not at the generator (transmitter).

Then you would cheat yourself of a fair amount of propagation and some of the lower and higher frequencies available with such a set up.

You're not going to keep RF out of the shack, regardless of which system you use. You might be able to keep some of the hot spots outside, but often times they are close enough to the station that it is really a waste of time.

This fascination with resonance is a leftover from CB thinking. How many warships utilize resonant antennas? Yet they communicate the world over.

The aversion to transmatches is a ham cultural trait that has no basis in reality, just as the CB'ers are hooked on resonant 50 ohm antennas. It's a characteristic of the culture(s) of both types of operators, with no basis in practical operating engineering.

Ed, N2ECW

189. Replacement of tower section

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 14:51:08 UTC
From: Tim Shoppa <shoppa@trailing-edge.com>
Message-ID: <585f2310-ad37-4298-b78b-474d1b09d8c8@n2g2000vbl.googlegroups.com>
Source record: 18363

Hanging from the bottom of a 120-foot tower, no longer attached to
the ground but still suspended in mid-air:

https://www.arrl.org/news/features/1998/0901/3/w1aw-l.jpg

The levitating tower:

https://www.arrl.org/news/features/1998/0901/3/w1aw-h.jpg

Pictures in context:

https://www.arrl.org/news/features/1998/0901/3/

It seems vaguely possible to replace intermediate tower sections using
this method too...!

Tim N3QE

190. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 16:05:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Wup9l.1475$%54.841@nlpi070.nbdc.sbc.com>
Source record: 18364

Ed Cregger wrote:
> You're not going to keep RF out of the shack, regardless of which system you
> use.

My no-tuner HF antenna system at: http://www.w5dxp.com/notuner.htm
has negligible measured RF-in-the-shack even though the antenna is
a non-resonant length on most HF bands.
--
73, Cecil http://www.w5dxp.com

191. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 16:49:08 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <ecbcm41bbsp7nk24e7va500mlitgld3801@4ax.com>
Source record: 18369

On Thu, 8 Jan 2009 08:50:33 -0500, "Ed Cregger"
<ecregger@bellsouff.net> wrote:

>
>"Dave" <dave@dave.dave> wrote in message
>news:3pCdnVqr6LrVY_jUnZ2dnUVZ_sHinZ2d@earthlink.com...
>> Bob Miller wrote:
>>
>>>
>>> I've had good luck bringing 450-ohm line through the window using
>>> MFJ's 4602 window feed through board. It has ceramic feed through
>>> insulators for the balanced line, more feedthrough's for a random
>>> wire, three coax lines and a ground wire. Even includes weather
>>> stripping and a burgler bar.
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>>> Bob
>>> k5qwg
>> That's through a window, not through a wall. I use the MFJ myself.
>>
>> If I did want to use non-resonant antennas I would locate a tuner at the
>> antenna feedpoint, not at the generator (transmitter).
>
>
>Then you would cheat yourself of a fair amount of propagation and some of
>the lower and higher frequencies available with such a set up.
>
>You're not going to keep RF out of the shack, regardless of which system you
>use.

FYI my 80 meter dipole with ladder line all way to the indoor tuner
does not emit RFI in the shack that I can notice, even when put into
all band use.

bob
k5qwg

> You might be able to keep some of the hot spots outside, but often
>times they are close enough to the station that it is really a waste of
>time.
>
>This fascination with resonance is a leftover from CB thinking. How many
>warships utilize resonant antennas? Yet they communicate the world over.
>
>The aversion to transmatches is a ham cultural trait that has no basis in
>reality, just as the CB'ers are hooked on resonant 50 ohm antennas. It's a

>characteristic of the culture(s) of both types of operators, with no basis
>in practical operating engineering.
>
>Ed, N2ECW
>
>

192. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 16:53:00 UTC
From: nm5k@wt.net
Message-ID: <6431e039-ae45-4d23-b0eb-e0aa22225684@p2g2000prf.googlegroups.com>
Source record: 18365

On Jan 8, 7:50 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:

>
> The aversion to transmatches is a ham cultural trait that has no basis in
> reality, just as the CB'ers are hooked on resonant 50 ohm antennas. It's a
> characteristic of the culture(s) of both types of operators, with no basis
> in practical operating engineering.
>
> Ed, N2ECW

I wouldn't say that. As an example, I've done tests showing that no
matter how careful I am with the tuner, it's settings, decent open
wire feeder, etc, I could never quite equal the performance of a coax
fed
dipole when feeding the same antenna using the tuner and ladder line.
Quite close granted, and to many people a non issue, but there *was*
a difference. Of course, the coax fed dipoles I use would generally
be considered a single band antenna. But that's no problem here.
But if I have my way, I avoid tuners if possible. I'm trading the
ability of fairly efficient multi band use, for the slightly more
efficient
coax fed single band antenna. I want to radiate every drop of RF I
can.
Also the settings of the tuner are fairly critical for the most
efficient
use. I have a 989c also, and I have done extensive testing with it
using various settings vs efficiency.
I found with the usual T network tuner such as the 989c, you might
be able to tune a load with 25 or more settings. But only the setting
using the least inductance will be fairly low loss. All of the
settings
that use more inductance than required show more tuner loss.
Up to about 20% of your power is lost in a worst case scenario.
So that is another issue. Small, being as one can make sure to
use the least inductance, but it's just another thing to fuss with
when changing bands.
Myself, I prefer to use multiple element antenna elements to
provide multi band capability. The system efficiency is very high,
and I don't have to do anything when I change bands.
It's not using a resonant antenna that makes it very efficient.
It's the ability to use the 50 ohm radio to a low loss 50 ohm
feed line, straight to the appx 50 ohm antenna without any
semi lossy mickey mouse stuff in between. :/
Now if I were required to use only one wire for all bands, I
wouldn't have any problems using ladder line and the tuner

to feed a single dipole. It will work quite well, and being I don't have the coax fed to compare to, no one will notice the difference.
But I bet they would notice a slight difference if I did have both to compare to. The reason I know this is because I have tried it. "75m" I could see the difference on receive, no real need to compare on air reports.
But I did anyway, and as expected, they saw about the same difference between the two systems.
When comparing the ladder line and tuner system vs the coax system, if I had a signal that was 40 db over S9 on the tuner system, it would bump up to about 45 db over S9 with the coax feed.
For me to see that large a difference on receive, the tuner loss can not be considered to be just an illusion or not based in reality.
I have no problems with anyone else using one, but I think it's a stretch to say that anyone that prefers to avoid one is trying to emulate a CB'er.. :/

193. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 16:53:50 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <ycq9l.3208$Db2.2654@edtnps83>
Source record: 18366

> The 'simple' answer? Keep away from 'stuff' it may interfere with.
> As for the worst case thing with high voltage? Change your antenna
> arrangement.
> How about hanging that ladder line from the suspended ceiling? Out of
> the typical 'foot traffic zones'? Anyone asks, tell'em it's an RF
> railroad line to your antenna. Sound crazy? so what, 'they' think
> we're crazy anyway...
> - 'Doc

Most of the wiring in the ceiling is what I put there. I just wanted to
demonstrate some of the problems associated with such an instalation.
Passing high voltage lines through wood -- even with a ceramic
sleeve -- is what really bothered me. The fact is I have room for
a 200 ft dipole, but on 160 m there are still high voltages on the
transmission line. I have pretty much made up my mind to build
a remote tuner, but the parts are very expensive.

Frank

194. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 17:31:39 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <neWdnUDH8N7mpfvUnZ2dnUVZ_rfinZ2d@posted.easystreetonline>
Source record: 18367

nm5k@wt.net wrote:
> On Jan 8, 7:50 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:
>
>> The aversion to transmatches is a ham cultural trait that has no basis in
>> reality, just as the CB'ers are hooked on resonant 50 ohm antennas. It's a
>> characteristic of the culture(s) of both types of operators, with no basis
>> in practical operating engineering.
>>
>> Ed, N2ECW
>
> I wouldn't say that. As an example, I've done tests showing that no
> matter how careful I am with the tuner, it's settings, decent open
> wire feeder, etc, I could never quite equal the performance of a coax
> fed
> dipole when feeding the same antenna using the tuner and ladder line.
> Quite close granted, and to many people a non issue, but there *was*
> a difference. Of course, the coax fed dipoles I use would generally
> be considered a single band antenna. But that's no problem here.
> But if I have my way, I avoid tuners if possible. I'm trading the
> ability of fairly efficient multi band use, for the slightly more
> efficient
> coax fed single band antenna. I want to radiate every drop of RF I
> can.

There are actually a couple of different consequences to using a non-resonant antenna, and they're often confused or lumped together. The first is the potential for tuner loss. In many, but not all cases, it can be made negligible -- after all, 25% power loss is only a little more than 1 dB. But of course no argument can be made against someone who considers "every drop" -- even a fraction of a dB -- important. The rest of us can usually use a tuner without any perceptible reduction in signal strength. We do need to keep in mind, however, that there are cases where tuner efficiency can be truly bad, and avoid them when possible.

But amateurs tend to use multiband antennas without any thought at all to radiation pattern. When the frequency gets considerably higher than a dipole's resonant frequency, the pattern changes. So there's a good chance that the pattern will have nulls in at least some directions where you might want to communicate. In those cases, the difference between a half wavelength dipole and much longer dipole can be striking. People who don't understand the reason for the difference often mistakenly attribute it to a change in efficiency rather than pattern.

> Also the settings of the tuner are fairly critical for the most
> efficient

> use. I have a 989c also, and I have done extensive testing with it
> using various settings vs efficiency.
> I found with the usual T network tuner such as the 989c, you might
> be able to tune a load with 25 or more settings. But only the setting
> using the least inductance will be fairly low loss. All of the
> settings
> that use more inductance than required show more tuner loss.
> Up to about 20% of your power is lost in a worst case scenario.
> So that is another issue. Small, being as one can make sure to
> use the least inductance, but it's just another thing to fuss with
> when changing bands.
It's relatively easy to measure tuner efficiency when it's working into a nice resistive load. But I'm curious about how you measured the power the tuner was delivering to a more realistic non-resonant load impedance. The only way I can think of to do it with any semblance of accuracy is to connect two identical tuners back-to-back and measure the power out of the combination. Is that how you did it? If not, how?

> . . .

Roy Lewallen, W7EL

195. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 18:48:19 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jPr9l.10709$D32.6597@flpi146.ffdc.sbc.com>
Source record: 18368

nm5k@wt.net wrote:
> When comparing the ladder line and tuner system vs the
> coax system, if I had a signal that was 40 db over S9
> on the tuner system, it would bump up to about 45 db over
> S9 with the coax feed.

Balanced tuner or balun plus unbalanced tuner?
If balun, what kind? Was the balun seeing its
designed-for impedance?

What do you think would be the A/B results for
a resonant coax-fed dipole vs my notuner dipole?

http://www.w5dxp.com/notuner.htm
--
73, Cecil http://www.w5dxp.com

196. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 20:29:36 UTC
From: nm5k@wt.net
Message-ID: <aba78c18-c7fc-42de-9e81-4cabd9e166a7@b38g2000prf.googlegroups.com>
Source record: 18370

On Jan 8, 11:31 am, Roy Lewallen <w...@eznec.com> wrote:

>
> But amateurs tend to use multiband antennas without any thought at all
> to radiation pattern. When the frequency gets considerably higher than a
> dipole's resonant frequency, the pattern changes. So there's a good
> chance that the pattern will have nulls in at least some directions
> where you might want to communicate. In those cases, the difference
> between a half wavelength dipole and much longer dipole can be striking.

That's another reason why I prefer the separate elements for multi
band use, vs the single wire.
I generally prefer the normal dipole pattern on most of the bands
I use.

>
> It's relatively easy to measure tuner efficiency when it's working into
> a nice resistive load. But I'm curious about how you measured the power
> the tuner was delivering to a more realistic non-resonant load
> impedance. The only way I can think of to do it with any semblance of
> accuracy is to connect two identical tuners back-to-back and measure the
> power out of the combination. Is that how you did it? If not, how?

It's been so long since I did that, I forgot exactly how I came to
that conclusion.
But I think I was using my resonant coax fed dipole as the load,
and pretty sure I had dual watt meters. One before the tuner,
and another after the tuner. The tuner has an antenna switch
to bypass the tuner.
I believe what I did was measure the power on both meters with
the tuner bypassed, and then tried using the tuner as a "line
flattener", more than an actual tuner, being the system was
already resonant.
I tried various settings of the tuner, trying quite a few variations
in inductance vs cap settings to see if I could notice much loss
with the tuner inline. The radio was my old IC 730 and I used
full power for the tests. The meter after the radio was used to
verify the appx power from the radio, and it stayed fairly constant
in all the tests. The meter after the tuner was used to check
the power at that point in the line.
In all cases, the tuner would indicate a "flat" match with all
the various settings, so any variation in the output of the
radio should have been small, and the meter after it verified
this.
But the meter on the other side of the tuner could vary

anywhere from about 20% less, to almost unnoticeable
difference, depending on the inductance setting of the tuner.
This test didn't tell me much about the losses using
non resonant loads fed with ladder line, but I suspect that
the loss would still be greatly defendant on the inductance
setting.
I would think the loss would greatly vary just depending
on the load at the moment. Could be high, as if feeding a
half size dipole with a T network tuner, or pretty low with
other longer wire lengths.
I didn't try to worry about the exact loss in numbers, but
I could see the problem cropping up fairly easy if one were
lazy about using the least inductance setting, or if using a
tuner with a tapped coil that was not the optimum setting.
My tuner uses a roller inductor, which lets me tune to
exactly the best spot on the coil, but some tuners tap
and switch the coil position. With some of those, loss
could be more noticeable if it's compromise setting was
way off from optimum.
Another thing I noticed that was it didn't take a whole
lot of extra inductance for the losses to begin to show.
Basically, I found there is only one tuner setting that
will give you fairly low loss in such a case. The one
using the least inductance to get a usable match
for the radio. All the other settings would show quite
a bit more loss, and it didn't take too much more
inductance to start seeing 10-15-20 % decreases in
output from the tuner. And all these settings show
a perfect match to the radio.
But if using the least inductance in such a case, the
meter reading was so close as to almost be the same
vs bypassing the tuner.
So you can use a tuner and have low loss if you
are careful about tuning.
Sure, even 20% won't make much of a difference on
the other end, but I'd prefer not to lose it none the less.
I'm usually on the noisy lower bands, and I rarely run
an amp anymore. That's why I insist on every drop.
In the summer, I usually need every drop.. :/
I also prefer coax anyway just due to the convenience.
But if I run ladder line, I run ladder line the whole way.
I don't like running coax to ladder line. I either use
one or the other.

197. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 20:36:22 UTC
From: nm5k@wt.net
Message-ID: <ccf518c0-51b6-4634-b308-c5bcfe2a9bb5@i18g2000prf.googlegroups.com>
Source record: 18371

```
On Jan 8, 12:48 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> n...@wt.net wrote:
> > When comparing the ladder line and tuner system vs the
> > coax system, if I had a signal that was 40 db over S9
> > on the tuner system, it would bump up to about 45 db over
> > S9 with the coax feed.
>
> Balanced tuner or balun plus unbalanced tuner?
> If balun, what kind? Was the balun seeing its
> designed-for impedance?
>
> What do you think would be the A/B results for
> a resonant coax-fed dipole vs my notuner dipole?
>

Probably about the same. In theory you would have
slightly less loss than the coax, but at the lower
frequencies even the coax has very low loss.
So being the losses for both are very low, I don't think
you would be able to see much difference.
Or that's my gut hunch anyway..
Yours would probably be better than the coax if the
run was several hundred feet. At that distance, the
slight difference might begin to show up more.
Also if used at fairly high frequencies, you might
have an advantage. Depends on how good the coax
is how much it would be.
```

198. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 21:57:15 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6c6930de-633d-431f-a483-9fb8e57ed48d@s9g2000prm.googlegroups.com>
Source record: 18372

On Jan 7, 4:21 pm, "Dave" <no...@nowhere.com> wrote:
> "Richard Fry" <r...@adams.net> wrote in message
>
> news:df99041b-bced-4610-af89-17a6d9763313@z28g2000prd.googlegroups.com...
> On Jan 3, 10:37 am, Art Unwin wrote:
>
> >> There is absolutely NO evidence that
> >> reflection occurs in any shape or form at the
> >> material ends of a radiator and all that pertains
> >> to such. PERIOD.
> >Art, the link below leads to empirical proof that such reflections
> >exist.
>
> don't confuse him with facts, especially facts out of books... they are all
> out of date since they don't have his latest theories included in them.

If graphs of current flow is to be generated it must provide a graph
of the lead edge of the current to compare with the trailing edge at
an instant of time, because it is a time varing current.

For a fractional wave antenna skin depth or resistance on the surface
does not disappear until the trailing edge of the RF pulse reaches the
antenna top. In the mean time current rises at the top as the fields
collapse which means that the lead current is prevented from turning
around because skin resistance is still being maintained Thus it has
no other choice to pursue a closed circuit other than travel on the
inside of the radiator and being shielded by the surface eddy currents
produced by the trailing current end.
If by some phenoma the current was able to flow down the outside of
the radiator it must also produce eddy current which thus allows for
radiation from what originaly was a puise to a duallity of current
flow, each of which creating radiation without frequency remaining
constant.
There is no reasonable reason to depart from the closed circuit ideals
to manufacture an incomplete sequence of events not supported by
science but printed in books. Otherwise there will be no progress in
the understanding of radiation until the actions of eddy current or
the weak force is fully understood with its ejection of particles from
diamagnetic materials.
I will not add to this thread as it is surround by closed minds of the
aged.
Have a great day
Art Unwin......KB9MZ.....xg

199. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-08 22:44:08 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <Ykv9l.3867$PH1.3066@edtnps82>
Source record: 18373

> don't confuse him with facts, especially facts out of books... they are
> all out of date since they don't have his latest theories included in
> them.

I think he is laughting at us all, and just seeing what can be gotten away
with.
Nobody with an engineering degree would ever write something like the
following:

"Calculus is based on homogenous materials or planes where you can
refer dy/dx to some thing aproaching zero. In the case of using this
aproach where the antenna diameter aproaches zero this is an invalid
aproach for accuracy but O.K. for aproximations. So much for the
foibles of theoretical mathematics".

200. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 00:14:45 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <c822ac2d-af0a-47bb-8f69-b9abc533fa7a@t39g2000prh.googlegroups.com>
Source record: 18374

On Jan 8, 3:57 pm, Art Unwin wrote:
> If graphs of current flow is to be generated it must provide a graph
> of the lead edge of the current to compare with the trailing edge at
> an instant of time, because it is a time varing current.

Art -
In your perception you have merged my r-f pulse measurement link with
my link to a relevant I.R.E. paper by Gihring & Brown of RCA.

But while both of these links show the existence of reflections, they
can not be combined in any manner to reach the conclusion stated in
your post clip quoted above.

Regardless of that, you continued your post with...

>For a fractional wave antenna skin depth or resistance on the surface
>does not disappear until the trailing edge of the RF pulse reaches the
>antenna top. In the mean time current rises at the top as the fields
>collapse which means that the lead current is prevented from turning
>around because skin resistance is still being maintained. Thus it has
>no other choice to pursue a closed circuit other than travel on thenside
>of the radiator and being shielded by the surface eddy currents
>produced by the trailing current end. etc

Art, consider just the Gihring/Brown measurements linked to earlier in
this thread. They were made using a continuous, non-pulsed r-f
waveform, so none of your beliefs posted above will apply.

Yet the current distribution measured along the lengths of those
radiators by Gihring/Brown proves the existence of reflections from
the end of such radiators, and that such reflected r-f current does
not return from the end of such radiators via a non-radiating path
through the center of the same conductor, as you suppose.

>I will not add to this thread as it is surround by closed minds of the aged.

But not for the reason you state next above, I'd wager.

RF

201. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 00:26:35 UTC
From: Dave <noone@nowhere.com>
Message-ID: <%Qw9l.4907$Es4.2696@nwrddc01.gnilink.net>
Source record: 18375

"Richard Fry" <rfry@adams.net> wrote in message
news:c822ac2d-af0a-47bb-8f69-b9abc533fa7a@t39g2000prh.googlegroups.com...
On Jan 8, 3:57 pm, Art Unwin wrote:
> If graphs of current flow is to be generated it must provide a graph
> of the lead edge of the current to compare with the trailing edge at
> an instant of time, because it is a time varing current.

Art -
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But while both of these links show the existence of reflections, they
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>does not disappear until the trailing edge of the RF pulse reaches the
>antenna top. In the mean time current rises at the top as the fields
>collapse which means that the lead current is prevented from turning
>around because skin resistance is still being maintained. Thus it has
>no other choice to pursue a closed circuit other than travel on thenside
>of the radiator and being shielded by the surface eddy currents
>produced by the trailing current end. etc

Art, consider just the Gihring/Brown measurements linked to earlier in
this thread. They were made using a continuous, non-pulsed r-f
waveform, so none of your beliefs posted above will apply.

Yet the current distribution measured along the lengths of those
radiators by Gihring/Brown proves the existence of reflections from
the end of such radiators, and that such reflected r-f current does
not return from the end of such radiators via a non-radiating path
through the center of the same conductor, as you suppose.

>I will not add to this thread as it is surround by closed minds of the
aged.

But not for the reason you state next above, I'd wager.

RF

of course not, you have shown him real facts... he can't fight real facts,
they just confuse him, so he'll go away and come back later and say that you
were completely wrong and that he proved it. and then go right back to
spouting the same old magical levitating diamagnetic neutrino bafflegab.

202. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 00:32:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <bccda68a-af20-46ac-9f8d-a02391407b4c@s1g2000prg.googlegroups.com>
Source record: 18376

On Jan 8, 6:14 pm, Richard Fry <r...@adams.net> wrote:
> On Jan 8, 3:57 pm, Art Unwin wrote:
>
> > If graphs of current flow is to be generated it must provide a graph
> > of the lead edge of the current to compare with the trailing edge at
> > an instant of time, because it is a time varing current.
>
> Art -
> In your perception you have merged my r-f pulse measurement link with
> my link to a relevant I.R.E. paper by Gihring & Brown of RCA.

Your posting was incomplete leaving more questiios than answers other
than the answers you applied so I obsoleted it.
I have have had not connection whatever , to my knowledge. of any
paper by Gihring and Brown
thus there is no reason for communication between us.
I say something and the reaction of the group states you can't. I have
no control how others think
so I move along on my own until something relevant comes along to
which I can apply a semblance of logic.

snip>
>
>
> >I will not add to this thread as it is surround by closed minds of the aged.
>
> But not for the reason you state next above, I'd wager.
>
> RF

203. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 00:39:46 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <bb7ce34a-28a6-4c6e-bb3e-0d5370c83cf6@r10g2000prf.googlegroups.com>
Source record: 18377

On Jan 8, 4:44 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> > don't confuse him with facts, especially facts out of books... they are
> > all out of date since they don't have his latest theories included in
> > them.
>
> I think he is laughting at us all, and just seeing what can be gotten away
> with.
> Nobody with an engineering degree would ever write something like the
> following:
>
> "Calculus is based on homogenous materials or planes where you can
> refer dy/dx to some thing aproaching zero. In the case of using this
> aproach where the antenna diameter aproaches zero this is an invalid
> aproach for accuracy but O.K. for aproximations. So much for the
> foibles of theoretical mathematics".

Frank
You know that the term of dy/dx is absent of metrics unless limits are
applied.
If the object is to measure the plane at hand it obviously must
represent a homogeneous plane
when the limits applied. This was established long before I was born
so it was not I who made it up
Laugh away it is good for you.
Art

204. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 01:34:10 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ea9e8a1e-31ef-4df8-ae9c-f5c0948765dd@f40g2000pri.googlegroups.com>
Source record: 18378

On Jan 2, 6:31 pm, da...@drumheller.org wrote:
> I've been using 4Nec2, a freeware antenna modeling program based on
> NEC-2 (Numerical Electromagnetic Code). I'm wondering if anyone could
> provide some insight as to just how it models current at the ends of
> wires that are not connected to anything (a.k.a. "free ends" or "open
> ends").
>
> Does NEC-2 model "end caps" at free ends, which is equivalent to
> assuming wires are solid, or does it just set the current equal to
> zero at the free ends, which is equivalent to assuming wires are
> hollow? Is it possible that it does both, but the specific model is
> determined by the choice of computational kernel (extended vs.
> standard)?
>
> I've tried looking through some of the NEC-2 documentation, but I
> can't find a definitive answer.
>
> -Dave, K3WQ

David
I see no reference with respect to the ratio between diameters so It
must reflect
solid conductors. If the elements were hollow there could be current
flow within the tube together with skin depth. However, the
communication must be consistent with straight line projectory and
thus the center of the tube would act like a Faraday cage. This is
different to current flow in the center of a solid radiator since
there can be no eddy current within a material of a RF radiator.
Remember, no matter how you read the NEC files equations arrived at
are often approximations since many time portions of equations are
assumed to be negligeable compared to the overall scheme of things and
thus deleted. Do that a few times and it is not known whether the
solutions is a greater or smaller approximation , only a closer
approximation that that created by a planar design. As a U.S.Senator
from Illinois once stated, a dollar here and a millions there and
pretty soon we are talking about real money (Sen Dirksen of Peoria)
Regards
Art

205. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 02:00:02 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <bgni36-246.ln1@mail.specsol.com>
Source record: 18379

Art Unwin <ArthurUnwin@gmail.com> wrote:

> You know that the term of dy/dx is absent of metrics unless limits are
> applied.

Bassackwards as usual.

dy/dy is differentiation, it is integration that has limits.

--
Jim Pennino

Remove .spam.sux to reply.

206. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 03:10:11 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <nez9l.3988$PH1.2772@edtnps82>
Source record: 18380

>Frank
>You know that the term of dy/dx is absent of metrics unless limits are
>applied.
>If the object is to measure the plane at hand it obviously must
>represent a homogeneous plane
>when the limits applied. This was established long before I was born
>so it was not I who made it up
>Laugh away it is good for you.
>Art

Your terminology is confusing: "The term of dy/dx". What does "term"
mean? How is it absent of metrics? I assume by "Metrics" you mean
a numeric value. dy/dx implies there is a function: y = f(x), for which
the derivative, f '(x) exists. The calculation of a derivative is trivial,
and assigning a numeric result simply involves substituting in
f ' (x) at x = a. I don't understand what you mean by applying limits
to a derivative. As long as the function is continuous, then the
derivative exists. Are you considering the "Newton Quotient"?
Why is the Newton Quotient relevant, when simple differentiation
methods will achieve the same answer.

What are you measuring in a plane? A plane is represented by a
linear equation in x, y, and z: such as:
a(x - xo)+b(y - yo)+c(z - zo) = 0. The coefficients a, b, and c
are a set of direction numbers of a normal to the plane.
Taking the derivative (dy/dx) of such a function implies a
"Partial" derivative, such that the "z" terms vanish, and you are
left with an equation of a line y = m*x+b, where the solution
is obviously "m". As for the homogeneity of a plane; you are introducing
a 4th dimension. What is the 4th variable? Subject to partial
differentiation
with respect to x; the 4th variable disapears anyway.

Did I get it right? I find the way you explain math is very difficult for
me to follow. Note: I am not laughing at you -- I assume you are
laughing at us who respond.

Frank

207. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 04:00:29 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <50ed20d3-6c98-4dd7-b601-7cd8d688a1fa@i24g2000prf.googlegroups.com>
Source record: 18381

On Jan 8, 9:10 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> >Frank
> >You know that the term of dy/dx is absent of metrics unless limits are
> >applied.
> >If the object is to measure the plane at hand it obviously must
> >represent a homogeneous plane
> >when the limits applied. This was established long before I was born
> >so it was not I who made it up
> >Laugh away it is good for you.
> >Art
>
> Your terminology is confusing: "The term of dy/dx". What does "term"
> mean? How is it absent of metrics? I assume by "Metrics" you mean
> a numeric value. dy/dx implies there is a function: y = f(x), for which
> the derivative, f '(x) exists. The calculation of a derivative is trivial,
> and assigning a numeric result simply involves substituting in
> f ' (x) at x = a.   I don't understand what you mean by applying limits
> to a derivative. As long as the function is continuous, then the
> derivative exists. Are you considering the "Newton Quotient"?
> Why is the Newton Quotient relevant, when simple differentiation
> methods will achieve the same answer.
>
> What are you measuring in a plane? A plane is represented by a
> linear equation in x, y, and z: such as:
> a(x - xo)+b(y - yo)+c(z - zo) = 0. The coefficients a, b, and c
> are a set of direction numbers of a normal to the plane.
> Taking the derivative (dy/dx) of such a function implies a
> "Partial" derivative, such that the "z" terms vanish, and you are
> left with an equation of a line y = m*x+b, where the solution
> is obviously "m". As for the homogeneity of a plane; you are introducing
> a 4th dimension. What is the 4th variable? Subject to partial
> differentiation
> with respect to x; the 4th variable disapears anyway.
>
> Did I get it right? I find the way you explain math is very difficult for
> me to follow. Note: I am not laughing at you -- I assume you are
> laughing at us who respond.
>
> Frank

No Frank I was careless.
When you are determining the area under a curve, the curve has an
equation
When the graph is roughly drawn out you draw a narrow vertical strip

that represents dy/dx
That strip has no specific thickness as it represents a vanishingly thin strip.
If the area represented a cross section of a radiator the thickness of that strip is then a problem.
As a radiator dx could represent the skin depth or it could represent the distance from the surface to the center line and thus the cross section would not be homogenous, same density etc
The problem then becomes what is the true skin depth density in relation to the inner core which allows for the application of the material resistance.
Now I see skin depth as the point that eddy current becomes a contained current circuit without discontinuity. The books define skin depth as a relation of decay which is not how I see things so we have a difference in proving things one way or the other. I then added aunconnected problem by drifting towards integration and limits ie travelling back from integration to the differation format which was a silly mistake for which I have been already reprimanded by the nets monitor who looks out for those things rather than the technical content. I really believe that the answer lays
on Maxwells laws and not with the approximation supplied by Uda/Yagi.
Computor programs say the same thing via the tipping radiator which all deny so there is no possible solution to be arrived at that satisfies all unless somebody provides answers that reflect Maxwell and not Yagi/Uda rather than "I said so" as every thing is known and is in the books that I own. At no time have I taken your postings as mocking or otherwise insincere as you are the only person who used a antenna program in conjuction with my beliefs which shows radiators as not being parallel with the surface of the Earth where others refused to check in any way. As I stated in an earlier posting one must graph the current levels at the top of a radiator by superimposing both graphs where both the leading and trailing currents arrive at the end (time separation of half a period)so that current direction can be determined since in one case there is no eddy current and the other case does have eddy currents(flow resistance) on the surface which thus determines current flow direction at each point.
Best regards
Art

208. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 05:32:18 UTC
From: richardharrison@webtv.net
Message-ID: <25094-4966E162-638@storefull-3172.bay.webtv.net>
Source record: 18382

Art wrote:
"For a fractional wave antenna, skin depth or resistance on the surface does not disappear until the trailing edge of the RF pulse reaches rhe antenna top."

Assume an open-circuited whip antenna fed with RF. The leading edge of the first current cycle reaching the antenna tip can continue forward no farther as it abruptly has run out of conducting parh. It must reverse directions on the surface of the conductor as it has no where else to go.

This reversed current is called the reflected current. The reflection is nearly 100%. I forward plus I reflected add to zero at the open circuit because they are about equal in magnitude and opposite in phase, caused by travel in opposite directions.

E forward plus E reflected add to X2 as they are in-phase and of the same magnitude at the open circuit.

Skin-effect causes both currents, forward and reflected, to ride the surface of the conductor.

Atenna RF current encounters more inductance in a onductor`s center than on its surface because there are magnetic force lines inside the conductor as well as outside encircling its current. Lines inside the wire only encircle the current beneath them. The exact center of the wire is encircled by all magnetic lines of force inside and on the surface of the conductor. It therefore poses the most opposition to RF current. It is encircled by lines of magnetic force from currents at all depths in and on a conductor. So, the deeper the current, the more opposition from inductive reactance to its flow, and that`s the way it is.

Best regards, Richard Harrison, KB5WZI

209. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 06:07:30 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a04db228-29f8-4fa4-8203-cc23b959f835@40g2000prx.googlegroups.com>
Source record: 18383

On Jan 8, 11:32 pm, richardharri...@webtv.net (Richard Harrison)
wrote:
> Art wrote:
>
> "For a fractional wave antenna, skin depth or resistance on the surface
> does not disappear until the trailing edge of the RF pulse reaches rhe
> antenna top."
>
> Assume an open-circuited whip antenna fed with RF. The leading edge of
> the first current cycle reaching the antenna tip can continue forward no
> farther as it abruptly has run out of conducting parh. It must reverse
> directions on the surface of the conductor as it has no where else to
> go.
>
> This reversed current is called the reflected current. The reflection is
> nearly 100%. I forward plus I reflected add to zero at the open circuit
> because they are about equal in magnitude and opposite in phase, caused
> by travel in opposite directions.
>
> E forward plus E reflected add to X2 as they are in-phase and of the
> same magnitude at the open circuit.
>
> Skin-effect causes both currents, forward and reflected, to ride the
> surface of the conductor.
>
> Atenna RF current encounters more inductance in a onductor`s center than
> on its surface because there are magnetic force lines inside the
> conductor as well as outside encircling its current. Lines inside the
> wire only encircle the current beneath them. The exact center of the
> wire is encircled by all magnetic lines of force inside and on the
> surface of the conductor. It therefore poses the most opposition to RF
> current. It is encircled by lines of magnetic force from currents at all
> depths in and on a conductor. So, the deeper the current, the more
> opposition from inductive reactance to its flow, and that`s the way it
> is.
>
> Best regards, Richard Harrison, KB5WZI

By golly As I stated before you are correct in your own mind
and I have no intention of changing your attitude as you age.
I acknowledge that we differ in our descriptions but until you provide
scientific proof as opposed to your personal opinion it will continue
to remain that way
regardless.

From now on because of our differences I see no need to respond to
your quotes
Nothing personal intended.
Best regards and farewell
Art
Art

210. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 06:20:15 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <v4ndm45bokgs4pifoe9chdd1o3u7ginaaa@4ax.com>
Source record: 18384

On Fri, 2 Jan 2009 16:31:08 -0800 (PST), david@drumheller.org wrote:

>Does NEC-2 model "end caps" at free ends, which is equivalent to
>assuming wires are solid, or does it just set the current equal to
>zero at the free ends, which is equivalent to assuming wires are
>hollow? Is it possible that it does both, but the specific model is
>determined by the choice of computational kernel (extended vs.
>standard)?

This presumes you are seeking a wire that has no current anywhere in its interior. Clearly there is no such conductor as any conduction via electrons (or the charge carrier of holes) must circulate about an atom's nucleus which necessarily imposes an interior current for half the orbit. The only exemption would be unless the conductor is one atom thick where there would be no interior. This would then become a quantum wire which would have problems of its own (called a coulomb blockade). As such a topic is clearly beyond the scope of discussion here, for all practical purposes wire is considered to be a bulk, even for NEC-n and the notion of "end caps" is an artifact of other, external considerations.

>I've tried looking through some of the NEC-2 documentation, but I
>can't find a definitive answer.

NEC-n designers are not interested in anticipating the questions to a vast multitude of speculative scenarios exploring the edges of QED. For instance, modern economics doesn't provide a definitive answer to this question either (economists don't really find those same issues germane either).

* * * * * * * * *

However, this question can be put to any NEC-n modeling package, and an answer provided quickly with some effort - if you are a skilled modeler. Further, the same question AND its NEC-n modeled answer can be weighed at the bench for validity.

At the risk of introducing a practical example that can be tested at the bench (knowing full well how that can tax the practical skills of many arm-chair theorists), let's proceed with a simple experiment.

First, we approach the situation with a radiator that is both hollow AND solid. Yes, a contradiction on the face of it, but explanation will serve. A coax that is terminated at both ends with female BNC connections has those ends capped with male shorting plugs. The net effect is that the "conductor" has two paths, one that is the exterior shield, and one that is the interior conductor. The shield and

conductor are shorted together at both ends. With such a connection, we necessarily have a solid.

We drive the exterior shield with a direct connection. Let's simply make it the vertical radiator against a field of radial ground wires. To all intents and purposes, the coax is a slightly thickish radiator. We can physically measure the current excitation along the length of the exterior path quite simply. When we take the numbers and compare it to the NEC-n model for a vertical radiator of equal thickness against a field of radial wires, we find a very close agreement in results.

NEC-n has been validated in the field.

If we break one of the male shorting caps open to insert a current meter (replacing the shorting cap with the meter inside the coax); then we discover there is no practical current inside the coax along the inner conductor. This should be no mystery as it is a classic expectation of Freshman physical science. {I will note here for the purists that I have explicitly stated no "practical" current. There is no one in this group who could possibly measure the impractical current.}

To create the NEC-n model would require constructing a cage of wires to simulate the shield, implanting an interior conductor to simulate the inner conductor and shorting both ends. This is not a intellectual leap, merely an hour's worth of careful design. I will leave it to someone ELSE who cares about the issue to report the current distribution of that interior wire. A very similar example is already available at:
http://home.comcast.net/~kb7qhc/antennas/verticals/Cage/cage.htm
so complaints of the lack of resources, time, effort, understanding, and the rest are hollow.

Barring reports to the contrary (and speculation counts for naught), NEC-n remains validated in the field. I would like to see that failure demonstrated, but untutored Arthru wholly lacks the skill in the matter, so I won't hold my breath for his demonstration.

Then the only step that remains is to open the interior wire (in either/both the physical real model and/or the model) and take new current distribution numbers. This fully qualifies as an hollow conductor (you can even remove the interior wire entirely to fully qualify to the question).

The question is solved through the model without need for browsing documentation.

If this doesn't serve, then the question wasn't all that important as an issue in the first place. If this is a serious question, then it is a necessary test. Barring reports of enumerated results, it then the question becomes yet another troll. I would note this same test fully quashes Arthru's speculations of interior currents of a

radiator.

No appeals to Gauss, Newton, Maxwell, or Einstein were necessary in the production of this posting as results are self evident to the skilled and naming those dead white scientists are employed only by hucksters trying to validate patents (aka ego certificates).

73's
Richard Clark, KB7QHC

211. POLO 5 T-shirt www.king-trade.cn

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 06:24:18 UTC
From: wholesaleww@sina.com
Message-ID: <92c921fa-bd29-4105-b068-82bc99bc277e@35g2000pry.googlegroups.com>
Source record: 18385
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

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212. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 06:58:44 UTC
From: richardharrison@webtv.net
Message-ID: <25093-4966F5A4-2133@storefull-3172.bay.webtv.net>
Source record: 18386

Art wrote:
"------in conjunction with my beliefs which shows radiators as not being parallel with the surface of the Earth where others refused to check in any way."

I`ve erected countless horizontal antennas. They worked as expected.

I agree that the ionosphere scrambles polarizations so that a distant signal may have been launched from either a horizontal or vertical antenna and be received almost as well on an antenna of the other of those polarizations.

Line of sight propagation is different. The same polarization is needed for linearly polarized antennas at both ends of a path. This is experience, not opinion. I`ve experimented with polarization and optimized countless terestrial microwave paths. I found I could aim dish elevations with a carpenter`s level and never improve by trying to adjust for maximum limiter current by refining the polarization adjustment. The antennas were already parallel at both ends of the path.

Tending to cross-polarize line of sight antennas increases path loss.

Best regards, Richard Harrison, KB5WZI

213. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 12:26:12 UTC
From: Dave <noone@nowhere.com>
Message-ID: <EnH9l.4503$BC4.873@nwrddc02.gnilink.net>
Source record: 18387

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:a04db228-29f8-4fa4-8203-cc23b959f835@40g2000prx.googlegroups.com...
On Jan 8, 11:32 pm, richardharri...@webtv.net (Richard Harrison)
wrote:
> Art wrote:
>
> "For a fractional wave antenna, skin depth or resistance on the surface
> does not disappear until the trailing edge of the RF pulse reaches rhe
> antenna top."
>
> Assume an open-circuited whip antenna fed with RF. The leading edge of
> the first current cycle reaching the antenna tip can continue forward no
> farther as it abruptly has run out of conducting parh. It must reverse
> directions on the surface of the conductor as it has no where else to
> go.
>
> This reversed current is called the reflected current. The reflection is
> nearly 100%. I forward plus I reflected add to zero at the open circuit
> because they are about equal in magnitude and opposite in phase, caused
> by travel in opposite directions.
>
> E forward plus E reflected add to X2 as they are in-phase and of the
> same magnitude at the open circuit.
>
> Skin-effect causes both currents, forward and reflected, to ride the
> surface of the conductor.
>
> Atenna RF current encounters more inductance in a onductor`s center than
> on its surface because there are magnetic force lines inside the
> conductor as well as outside encircling its current. Lines inside the
> wire only encircle the current beneath them. The exact center of the
> wire is encircled by all magnetic lines of force inside and on the
> surface of the conductor. It therefore poses the most opposition to RF
> current. It is encircled by lines of magnetic force from currents at all
> depths in and on a conductor. So, the deeper the current, the more
> opposition from inductive reactance to its flow, and that`s the way it
> is.
>
> Best regards, Richard Harrison, KB5WZI

By golly As I stated before you are correct in your own mind
and I have no intention of changing your attitude as you age.
I acknowledge that we differ in our descriptions but until you provide
scientific proof as opposed to your personal opinion it will continue

to remain that way
regardless.
From now on because of our differences I see no need to respond to
your quotes
Nothing personal intended.
Best regards and farewell
Art
Art

ain't it great. show him facts and he calls them your opinions and ignores
them... yet question his opinions and you are an old fuddy duddy stuck on
the books that have been good for 100 years.

214. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 13:10:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <pYH9l.8458$8_3.2336@flpi147.ffdc.sbc.com>
Source record: 18388

Richard Harrison wrote:
> Skin-effect causes both currents, forward and reflected, to ride the
> surface of the conductor.

Some quantum electrodynamics might help. The electrons
in the conductor are the carriers and move hardly at
all at RF frequencies where electrons can be thought of
as vibrating in place, absorbing and emitting photons.

It is those photons that move at the speed of light and
RF photons cannot travel *inside* a conductor. The cloud
of photons in the space surrounding the conductor is the
same thing as Maxwell's RF electromagnetic field which,
as we assume from conventional physics, cannot exist
deep inside a conductor because of skin-effect.

Seems to me the present argument results from the
confusion between DC steady-state which is electron
flow not involving RF photons and RF "steady-state"
which cannot exist without RF photons.

Photons, unlike electrons, do not have a charge and
thus do not repel each other. Any number of photons
can occupy the same volume including forward and
reflected photons which form the standing wave
surrounding the conductor.

Let's say we have two pieces of coax with a 'T'
connector in the middle. If we short the inside
conductor to the outside conductor on both ends
and apply RF, what would we measure at the
center conductor of the 'T' in the middle?
--
73, Cecil http://www.w5dxp.com

215. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 13:46:50 UTC
From: Dave <dave@dave.dave>
Message-ID: <RL6dnQP595jWyPrUnZ2dnUVZ_jSdnZ2d@earthlink.com>
Source record: 18389

Ed Cregger wrote:
> "Dave" <dave@dave.dave> wrote in message

>>
>> If I did want to use non-resonant antennas I would locate a tuner at the
>> antenna feedpoint, not at the generator (transmitter).
>
>
> Then you would cheat yourself of a fair amount of propagation and some of
> the lower and higher frequencies available with such a set up.
>
> You're not going to keep RF out of the shack, regardless of which system you
> use. You might be able to keep some of the hot spots outside, but often
> times they are close enough to the station that it is really a waste of
> time.
>
> This fascination with resonance is a leftover from CB thinking. How many
> warships utilize resonant antennas? Yet they communicate the world over.
>
> The aversion to transmatches is a ham cultural trait that has no basis in
> reality, just as the CB'ers are hooked on resonant 50 ohm antennas. It's a
> characteristic of the culture(s) of both types of operators, with no basis
> in practical operating engineering.
>
> Ed, N2ECW

You don't read very well. And you seem a tad hostile.

I stated no "aversion" whatsoever to what are called "non-resonant"
antennas. I said that I'd locate the tuner at the antenna feedpoint. A
transmatch between the radio and the transmission line does little to
make the antenna work better.

CB thinking? You really have issues.

216. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 14:24:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Q6J9l.8507$hc1.6582@flpi150.ffdc.sbc.com>
Source record: 18390

Dave wrote:
> A transmatch between the radio and the transmission
> line does little to make the antenna work better.

That statement is true for a very lossy system but
not necessarily true for low-loss real-world systems.

Establishing a conjugate match at the antenna feedpoint
makes the antenna work better by allowing maximum
available power transfer to the antenna. A remote
autotuner at the base of the antenna can accomplish
that feat.

There seems to be developing the myth that a tuner
at the shack cannot accomplish that feat. Although
strictly technically true, a low-loss tuner and low-loss
transmission line can come close enough to achieving a
conjugate match at the antenna that almost all of the
available power is transferred to the antenna (if losses
are made negligible by good engineering practice).

It can be proved mathematically that in a lossless
system, a conjugate match is established at the
antenna feedpoint by the tuner located back in the
shack. A near-conjugate match is established in the
case of a low-loss system resulting in near-maximum
available power transfer to the antenna.
--
73, Cecil http://www.w5dxp.com

217. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 15:16:10 UTC
From: nm5k@wt.net
Message-ID: <f1313006-515a-497f-b18b-769d9325b353@w39g2000prb.googlegroups.com>
Source record: 18391

On Jan 9, 8:24 am, Cecil Moore <nos...@w5dxp.com> wrote:

>
> There seems to be developing the myth that a tuner
> at the shack cannot accomplish that feat. Although
> strictly technically true, a low-loss tuner and low-loss
> transmission line can come close enough to achieving a
> conjugate match at the antenna that almost all of the
> available power is transferred to the antenna (if losses
> are made negligible by good engineering practice).
>
> It can be proved mathematically that in a lossless
> system, a conjugate match is established at the
> antenna feedpoint by the tuner located back in the
> shack. A near-conjugate match is established in the
> case of a low-loss system resulting in near-maximum
> available power transfer to the antenna.
> --
> 73, Cecil http://www.w5dxp.com

Judging from my mobile antenna tinkering, I'd have to
say that is true.
As an example, with a short run of coax that feeds
the antenna, you would think that it would be required
to place the matching device or tuner at the feed point
of the vertical. And strictly speaking, it would be the
best place for it.
But... I've found that you can have very good results
if the tuner is at the radio end of the coax.
In actual operation, there seems to be little difference
in performance.
But the short piece of coax "maybe 10 ft long" is
fairly low loss on the lower HF frequencies.
So it's not a lossless system, but fairly low loss
considering the frequency and short length of
the line.
But if I run a long coax to the same antenna, I
would prefer to keep the tuner at the same place, in
front of the short 10 ft piece, and then run my long
cable from the radio to the tuner, which is still at
the car.
I often did this when using the radio at picnic
tables, tents, while using the mobile antenna on
the car.
My most recent installs on the two trucks place

the matching device at the antenna.
But in my older car I once used, I used the tuner
at the radio end. It was convenient, and let me
fine tune the match while driving.
There seems to be little difference in performance
that I can see using the short fairly low loss pieces
of coax. Not much difference where I place the
tuner. So this tends to back up your theory.

218. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 15:28:01 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <f%J9l.1630$Ex.97@bignews8.bellsouth.net>
Source record: 18392

"Dave" <dave@dave.dave> wrote in message
news:RL6dnQP595jWyPrUnZ2dnUVZ_jSdnZ2d@earthlink.com...
> Ed Cregger wrote:
>> "Dave" <dave@dave.dave> wrote in message
>
>>>
>>> If I did want to use non-resonant antennas I would locate a tuner at the
>>> antenna feedpoint, not at the generator (transmitter).
>>
>>
>> Then you would cheat yourself of a fair amount of propagation and some of
>> the lower and higher frequencies available with such a set up.
>>
>> You're not going to keep RF out of the shack, regardless of which system
>> you use. You might be able to keep some of the hot spots outside, but
>> often times they are close enough to the station that it is really a
>> waste of time.
>>
>> This fascination with resonance is a leftover from CB thinking. How many
>> warships utilize resonant antennas? Yet they communicate the world over.
>>
>> The aversion to transmatches is a ham cultural trait that has no basis in
>> reality, just as the CB'ers are hooked on resonant 50 ohm antennas. It's
>> a characteristic of the culture(s) of both types of operators, with no
>> basis in practical operating engineering.
>>
>> Ed, N2ECW
>
> You don't read very well. And you seem a tad hostile.
>
> I stated no "aversion" whatsoever to what are called "non-resonant"
> antennas. I said that I'd locate the tuner at the antenna feedpoint. A
> transmatch between the radio and the transmission line does little to make
> the antenna work better.
>
> CB thinking? You really have issues.

Actually, I read very well.

We are talking on a worldwide forum. Folks that take every single comment personally have missed that point of view and usually react negatively, as you.

If I wanted to raise hell and berate someone, this would be the last usenet group that I would use. Most folks here are scientifically oriented and would be no fun to irritate.

I am interested in two-way radio cultures. I own and use CB radios in addition to my amateur gear. I had my FCC commercial ticket long before encountering CB or ham radio. I was introduced to two-way radio while in the USAF, so my view of the cultures is quite different than many civilian radio cultures. No insult was or is intended.

When I say someone is oriented toward radio in a CB fashion, it is not necessarily an insult. Why would I insult myself?

I may be a bit hostile, that's true. Anyone in the amount of pain that I am in (and there are certainly millions with worse pain than mine) will be a bit short or curt at times. My apologies.

The marketing campaigns for CB gear in the seventies placed emphasis on a 50 ohm match with a resonant antenna. Many CB folks received all of their education in radio via those commercials.

Many hams, especially those that came from CB, would probably faint if they knew that commercial broadcast stations often have an "antenna tuner" at the base of their broadcast antennas. After all, tuners are no good, right? That was one of the points that I was trying to make. Kind of a preemptive strike on my part to reduce the number of complaints about folks running a dipole antenna configuration while using twinlead feedline with a transmatch at the station. I was not picking on you, nor was I trying to show you in a bad light.

Ed, N2ECW

219. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 15:33:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7cefbfdc-eac2-4097-93aa-8ad86874205b@o40g2000prn.googlegroups.com>
Source record: 18393

On Jan 9, 7:10 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Richard Harrison wrote:
> > Skin-effect causes both currents, forward and reflected, to ride the
> > surface of the conductor.
>
> Some quantum electrodynamics might help. The electrons
> in the conductor are the carriers and move hardly at
> all at RF frequencies where electrons can be thought of
> as vibrating in place, absorbing and emitting photons.
>
> It is those photons that move at the speed of light and
> RF photons cannot travel *inside* a conductor. The cloud
> of photons in the space surrounding the conductor is the
> same thing as Maxwell's RF electromagnetic field which,
> as we assume from conventional physics, cannot exist
> deep inside a conductor because of skin-effect.
>
> Seems to me the present argument results from the
> confusion between DC steady-state which is electron
> flow not involving RF photons and RF "steady-state"
> which cannot exist without RF photons.
>
> Photons, unlike electrons, do not have a charge and
> thus do not repel each other. Any number of photons
> can occupy the same volume including forward and
> reflected photons which form the standing wave
> surrounding the conductor.
>
> Let's say we have two pieces of coax with a 'T'
> connector in the middle. If we short the inside
> conductor to the outside conductor on both ends
> and apply RF, what would we measure at the
> center conductor of the 'T' in the middle?
> --
> 73, Cecil http://www.w5dxp.com

Cecil
I wish I could debate with you one on one where there are no snide
remarkes put in place.
Unfortunately my training is as a mechanical engineer where as a ham I
have spread out somewhat into the electrical field and advancing via
the rules of Maxwell and the other masters.
When you move out further with the introduction of protons my eyes
glaze over because I know nothing of such things.

Now this discussion started off with Gauss laws on statics with me
which finally lead to a antenna program that vindicated my stance. It
was the Gaussian aproach that has produced the endless discussion. So
let us put the problem on its head and start with the computer
programs and work backwards. There are two types of antenna
programs.The first type is EZNEC that applies mathematics to pre
designed scenarious which via experience with the books revolve around
planar designes to which it will supply an aswer that one would expect
again via experience from the books and the user is very happy. The
other style of program is an extension of the first where the program
is empowered to modify input dimensions such that the input moves
towards a radiator
that meets the intention of Maxwells laws in their entirety. I use the
latter program where as non of the group will use this type favoring
the basic EZNEC program It is now where we find that it is the details
of the two programs come into evidence. Hams by virtue of their
knowledge and readings
WILL insert a planar design to find the resulting characteristics. On
the other hand I just insert a handfull of numbers and ask the program
to rearrange inserted figures to obtain a certain gain e.t.c.
I can do this as I know that the program based on Maxwells laws will
pursue a line for the best array that meets my request. Now this group
owning only the EZNEC will always insert for a vertical antenna a
design that is at right angles to earth with a specific length of
radiator just like the books they have and it will provide an answer
that the books would expect.
I on the other hand being a mechanical engineer use a program that is
known to reflect the laws of the masters thus it is natural for be to
insert various numbers with no real meaning and leave it to the
experts to rearrange it for the best orientation to meet my request.
So How do these approaches differ.
The group using the EZNEC style of program will input a vertical
antenna at right angles to the Earth wich follows conventional
thinking
I as a mechanical engineer does not assume anything and thus provides
the problem to the program to unravel ie. the numbers provided are
random with respect to orientation.
The results provided is always a vertical that is tipped away from
right angles with respect to Earth.
This presents a paradox two programs providing different results.
Those using the planar aproach and using EZNEC get an orientation that
one sees in the books where-as.....
my program which has an optimiser (the ability to change orientation
in line with Maxwells laws)
provides a orientation of a vertical that is tipped sand supplies
superior results to that of a planar design which it always over rules
in it search for best results.
So the problem is not that the eddy current creats the tipping.
The problem is that a program exists that supplies orientations that
are contrary to those that are generaly in the books used as

tutorial's. Thus the question is a very simple one.
On what grounds can we accept one program that supplies responses that are not accounted for in tutorial books? One program supplies solutions that exceed the values supplied by the other,
yet the other program when supplied with the final orientation of an array or radiator that one program supplied will then show AGREEMENT with the other program?
Now my reversion to first principles produces disagreement even tho an alternative approach is not supplied. So as a mechanical engineer I give the problem to the experts to which there is silence
and an unwilliness to change to an open mind.
So Cecil I presented the facts what two different antenna programs used in the amateur antenna world supplies and ask, why should I NOT trust programs that utelize an optimizer aproach based on the laws of Maxwell and favor a program that use orientations that present tutorial books supply? A simple question unimpaired by the theories of particles etc which seems to be a source of annoyance.

My sincere regards
Art Unwin.....KB9MZ.....xg

220. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 19:00:40 UTC
From: richardharrison@webtv.net
Message-ID: <11959-49679ED8-2265@storefull-3173.bay.webtv.net>
Source record: 18394

Art wrote:
"So Cecil I presented the facts what two different antenna programs used in the amateur antenna would and ask, why should I NOT trust programs that utelize the laws of Maxwell and favor a program that use orientations that present tutorial books supply? A simple question inspired by theories of particles etc which seems to be a source of annoyance."

Antenna programs are tools. Their product qualities depend on user ability as much as upon the tool. Any program telling you to tilt the tower is wrong for one reason or another. Were that so, after a century of broadcasting there would be such transmitters and there aren`t.

Particles and EM waves are compatible. I recommend "Electromagnetism and the Sacred" by Lawrence W. Fagg, ISBN 0-8264-1147-9, which reconciles QED (Quantum Electromagnetism) and EMI (Electromagnetic Interaction).

Fagg also informs of the Four Forces of Nature. Art said we must account for "The Weak Force" in our determination, but never said which weak force he meant.

Fagg says on page 27:
"The strongest of the forces is the nuclear force, which, for example, keeps the quarks (the most elementary particles that are subject to the nuclear force) together in clumps of three to form protons and neutrons, and, in turn, keeps protons and neutrons together in the neucleus of an atom. Next in order of strength is the electromagnetic force, which is the fundamental mechanism that makes possible the operation of all living things including ourselves and most of the material world to which we relate. The third is known as the weak force, which comes into play in the radioactive decay of a nucleus and many other elementary particle phenomena. By far the weakest of the four is gravity.

I won`t bore with more. Read the book.

Best regards, Richard Harrison, KB5WZI

221. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 20:02:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <b3O9l.1598$%54.1073@nlpi070.nbdc.sbc.com>
Source record: 18395

nm5k@wt.net wrote:
> But if I run a long coax to the same antenna, I
> would prefer to keep the tuner at the same place, in
> front of the short 10 ft piece, and then run my long
> cable from the radio to the tuner, which is still at
> the car.

When the SWR is not 1:1 but is of a reasonable value:
A short coax run is usually low-loss. A long coax run
is usually not low-loss. When the tuner is located at
the transmitter, the near-conjugate match at the
antenna can only be achieved in a low-loss system.
Open-wire HF transmission line systems are usually
low-loss systems.
--
73, Cecil http://www.w5dxp.com

222. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-09 20:35:16 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7ed058d7-b9ed-4635-90f6-a1ac1d9388aa@s1g2000prg.googlegroups.com>
Source record: 18396

On Jan 9, 1:00 pm, richardharri...@webtv.net (Richard Harrison) wrote:
> Art wrote:
>
> "So Cecil I presented the facts what two different antenna programs used
> in the amateur antenna would and ask, why should I NOT trust programs
> that utelize the laws of Maxwell and favor a program that use
> orientations that present tutorial books supply? A simple question
> inspired by theories of particles etc which seems to be a source of
> annoyance."
>
> Antenna programs are tools. Their product qualities depend on user
> ability as much as upon the tool. Any program telling you to tilt the
> tower is wrong for one reason or another. Were that so, after a century
> of broadcasting there would be such transmitters and there aren`t.
>
> Particles and EM waves are compatible. I recommend "Electromagnetism and
> the Sacred" by Lawrence W. Fagg, ISBN 0-8264-1147-9, which reconciles
> QED (Quantum Electromagnetism) and EMI (Electromagnetic Interaction).
>
> Fagg also informs of the Four Forces of Nature. Art said we must account
> for "The Weak Force" in our determination, but never said which weak
> force he meant.
>
> Fagg says on page 27:
> "The strongest of the forces is the nuclear force, which, for example,
> keeps the quarks (the most elementary particles that are subject to the
> nuclear force) together in clumps of three to form protons and neutrons,
> and, in turn, keeps protons and neutrons together in the neucleus of an
> atom. Next in order of strength is the electromagnetic force, which is
> the fundamental mechanism that makes possible the operation of all
> living things including ourselves and most of the material world to
> which we relate. The third is known as the weak force, which comes into
> play in the radioactive decay of a nucleus and many other elementary
> particle phenomena. By far the weakest of the four is gravity.
>
> I won`t bore with more. Read the book.
>
> Best regards, Richard Harrison, KB5WZI

Richard you can read therefore you know what the question is. It is
very simple and it is related solely to antenna computor programs that
are used presently around the World. It is understanderble because of
your advanced age you avoid the use of computer. I have no problem
with regard to the proof that you can read but it is not relevent to

the question which you make every effort to avoid. You can venture to answer the question again based on your computer knoweledge but the question is based on the veracity of computer antenna programs in use today and nothing else as the Gaussian aproach appeared to be confusing. So it makes no use to quote books at this time because I agree to disagree whith comments based on the Gaussian aproach.
It is for that reason the question is now simplified where it only encompasing computer programs

223. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 04:53:39 UTC
From: richardharrison@webtv.net
Message-ID: <25093-496829D3-2604@storefull-3172.bay.webtv.net>
Source record: 18397

Art wrote:
"It is very simple and it is related solely to antenna computor programs
that are used presently around the World,"

Supposing that Art means: Does NEC-2 model wires as solid or hollow?

It makes no difference. Skin effect makes a hollow wire appear to be
solid.

Computer programs successfully predict antenna performance so they are
in demand the world over as Art noted. They make the tedious easy.

Best regards, Richard Harrison, KB5WZI

224. Re: Antenna Handbook [USMC] # MCRP 3-40.3C -was- Look What I Found

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 05:12:51 UTC
From: Otis Mukinfus <otis@otismukinfus.com>
Message-ID: <5gbgm4lgvblsbtqmtjvt3pr5lrmdruje3i@4ax.com>
Source record: 18398

On Thu, 1 Jan 2009 18:46:46 -0800 (PST), RHF <rhf-newsgroups@pacbell.net> wrote:

>On Dec 31 2008, 7:27ï¿½am, Dave <d...@dave.dave> wrote:
>- www.zerobeat.net/r3403c.pdf
> .
>Antenna Handbook [USMC] # MCRP 3-40.3C
>www.zerobeat.net/r3403c.pdf
>* Formerly Marine Corps Reference Publication
>(MCRP) 6-22D "Antenna Handbook"
>* For all personnel desiring information about
>Antenna Fundamentals.
>* Approx 165+ Pages in PDF File
> .

Thanks,

It looks like good stuff...

Otis Mukinfus

225. test Post

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 05:47:56 UTC
From: Otis Mukinfus <none@none.com>
Message-ID: <mjdgm45d3alqkbvdjofuu20r75dlvmvc5a@4ax.com>
Source record: 18399

```
test post
```

226. Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 11:12:19 UTC
From: Gary Smith <vkthree@gmail.com>
Message-ID: <gk9vqjbdq1@news-01.bur.connect.com.au>
Source record: 18400

Hi, i have a 2/70 verticle that is "chalking" on the outside of the white section. I think this is the right term for it. If you grab it white powdery remnants stay on your hands or clothes. How do you go about fixing this? Wash with soap and water then spray enamel on it maybe?

Thanks for any input...

Gary
VK3LCD

227. inverted L antenna for 1431KHz MW band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 12:01:49 UTC
From: tzitzikas <tzitzikas.3ae8c98@radiobanter.com>
Message-ID: <tzitzikas.3ae8c98@radiobanter.com>
Source record: 18409

hi.
i have a transmitter about 150 watt (output an 813 tube 1400vdc) at
1431khz (salonika greece) and the antenna that i'm using is an inverted
L antenna (with a less than 5l/16 length ,about 20m vertical segment and
40m horizontal segment). the coupler that i'm using now is l-type . at
http://www.geocities.com/tzitzikas_ee/antenna.gif you can see a
schematic of my coupler.
i would like to improve the efficiency of my antenna.
i would like to ask you which inverted L lenght is better for stronger
local signals:
1/2, 3/8, 5/16, 5/8 or 1/2 wavelenght? thanks

--
tzitzikas

228. Re: Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 12:32:07 UTC
From: Dave <noone@nowhere.com>
Message-ID: <bz0al.5208$Es4.2003@nwrddc01.gnilink.net>
Source record: 18401

"Gary Smith" <vkthree@gmail.com> wrote in message
news:gk9vqjbdq1@news-01.bur.connect.com.au...
Hi, i have a 2/70 verticle that is "chalking" on the outside of the
white section. I think this is the right term for it. If you grab it
white powdery remnants stay on your hands or clothes. How do you go
about fixing this? Wash with soap and water then spray enamel on it maybe?

Thanks for any input...

Gary
VK3LCD

yeah, maybe a light sanding also... but assuming its fiberglass be sure to
take care to not get the dust where you don't want to itch.

229. Re: How to estimate groundwave distance?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 12:39:15 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <b3b87f04-f1ba-4674-9c66-8962279ca3de@a26g2000prf.googlegroups.com>
Source record: 18402

On Dec 30 2008, 8:50 am, Eric wrote:
> Can anyone tell me the best way to estimate the groundwave coverage
> I'm likely to get on 75 meters?

NEC shows this for a theoretically perfect 1/4-wave vertical monopole system:

Frequency = 3.9 MHz
Conductivity = 5 mS/m
Applied Power = 100 watts

Groundwave Field at 10 miles = 31.7 µV/m
Groundwave Field at 20 miles = 14 µV/m

RF

230. Re: Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 15:04:31 UTC
From: Dave <dave@dave.dave>
Message-ID: <6bednf7oYMyeJPXUnZ2dnUVZ_qHinZ2d@earthlink.com>
Source record: 18403

Gary Smith wrote:
> Hi, i have a 2/70 verticle that is "chalking" on the outside of the
> white section. I think this is the right term for it. If you grab it
> white powdery remnants stay on your hands or clothes. How do you go
> about fixing this? Wash with soap and water then spray enamel on it maybe?
>
> Thanks for any input...
>
> Gary
> VK3LCD

Chemtrails.

231. Re: How to estimate groundwave distance?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 15:06:07 UTC
From: Dave <dave@dave.dave>
Message-ID: <6bednfnoYMzCJPXUnZ2dnUVZ_qHinZ2d@earthlink.com>
Source record: 18404

Richard Fry wrote:
> On Dec 30 2008, 8:50 am, Eric wrote:
>> Can anyone tell me the best way to estimate the groundwave coverage
>> I'm likely to get on 75 meters?
> ----------
>
> NEC shows this for a theoretically perfect 1/4-wave vertical monopole
> system:
>
> Frequency = 3.9 MHz
> Conductivity = 5 mS/m
> Applied Power = 100 watts
>
> Groundwave Field at 10 miles = 31.7 ï¿½V/m
> Groundwave Field at 20 miles = 14 ï¿½V/m
>
> RF

Wouldn't a 200 degree vertical work better?

232. Re: Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 15:38:22 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <0YGdnXz_zuDxXfXUnZ2dnUVZ_judnZ2d@earthlink.com>
Source record: 18405

"Gary Smith" <vkthree@gmail.com> wrote in message
news:gk9vqjbdq1@news-01.bur.connect.com.au...
> Hi, i have a 2/70 verticle that is "chalking" on the outside of the white
> section. I think this is the right term for it. If you grab it white
> powdery remnants stay on your hands or clothes. How do you go about fixing
> this? Wash with soap and water then spray enamel on it maybe?
>
> Thanks for any input...
>
> Gary
> VK3LCD

Here is an old file I picked up about 10 years ago. I was not the one that received the info from Celwave, but just copied off the internet for information.

****

Antenna Painting Instructions

The following is courtesy Celwave This is what I received when I asked

them for a recommendation of what to use in refinishing my 18 year old

PD455

Celwave receives requests for advice about refinishing weathered antenna radomes or changing the radome color for aesthetic

reasons. We do not take a position on any manufacturer's paint. However, Sherwin-Williams seems to make a product, which

should be compatible with radomes and not interfere with the antenna's electrical performance. The following suggestions are

not a substitute for detailed instructions and mix ratios provided by the paint manufacturer.

RADOME MATERIAL (Standard Color)

CELWAVE PRODUCT LINE

1. Spun Epoxy Fiberglass (Blue)

Penetrator Antennas (AxR, BxR
Series)

2. Polyester Impregnated Fiberglass (White)

Stationmaster Antennas (PDxx Omni
Series.)

3. Polyester Impregnated Fiberglass (Grey)

FR CELlite Panel Antennas (AP18, 19
Series)

4. ASA (Grey)

FR CELlite Panel Antennas (AP90
Series)

5. AES/ABS (White or Grey)

US Panel Antennas (Other APxx
Models)

6. Gel Coated Fiberglass Tubing (White)

Marine Antennas (Cel-1, 3 etc.)

Notes:

FOR RADOME

MATERIAL

USE THIS FINISH

#1, #2, #3

Primer and Top Coat

#4, #5

Primer may be required ----

(Top Coat retention may be tested with adhesive tape after
paint dries)

#6

Requires Pre-Treat (Acid Etch) to remove gloss, then Primer
and Top Coat

SHERWIN-WILLIAMS PRODUCTS:

Etch

P60G2 "Wash Primer"

Primer

D61H75 "Polane 2.8 Plus Spray Fil"

Top Coat

Polane Type "HS 2.8 Plus Polyurethane"

SURFACE PREPARATION:

Removal of surface contamination is normally accomplished by using an alcohol solvent, ethanol, propanol, isopropanol, or

butanol. A ten percent solution of methyl ethyl ketone in water can also be used whenever stubborn oil or grease is

encountered.

APPLICATION PROCEDURES:

Painting to be done indoors, as the uncured product is sensitive to moisture. Apply one coat of Polane 2.8 Plus Spray Fil

D61H75 Primer. It is designed to fill and/or hide profile and surface imperfections on metal castings, structural foam, plastic and

wood. Apply one coat of Polane HS 2.8 Plus Polyurethane Enamel Monochromatic Intermix Color System F63 Series.

FOR FURTHER S-W PRODUCT INFORMATION CONTACT:

Ralph Stadalman - Product Finishing Representative

The Sherwin-Williams Company

Chemical Coating Facility

3165 Tucker Road Bensalem, PA 19020

Voice = (215) 638-0104

Fax = (215) 638-1008

Rev: #5 10/05/98 DLS

File: PAINT.doc

End

233. Re: How to estimate groundwave distance?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 16:13:11 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <ca4fcd94-5093-498c-a8cb-591b4b38e577@i18g2000prf.googlegroups.com>
Source record: 18406

On Jan 10, 9:06 am, Dave <d...@dave.dave> wrote:
> Richard Fry wrote:
> > On Dec 30 2008, 8:50 am, Eric wrote:
> > NEC shows this for a theoretically perfect 1/4-wave vertical
> > monopole system: etc

I need to correct the values I posted earlier. I mis-read the larger
table I had constructed, which was apparent when calculating the
values for a ~200 degree vertical.

Frequency = 3.9 MHz
Conductivity = 5 mS/m
Applied Power = 100 watts

Groundwave Field at 10 miles = 131 µV/m (Correction)
Groundwave Field at 20 miles = 31.7 µV/m (Correction)

> Wouldn't a 200 degree vertical work better?

Yes, by a little over 2 dB (other things equal).

Groundwave Field at 10 miles = 167 µV/m
Groundwave Field at 20 miles = 41 µV/m

RF

234. Re: How to estimate groundwave distance?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 16:49:11 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <pq2dnY0FCaeZTPXUnZ2dnUVZ_qvinZ2d@earthlink.com>
Source record: 18407

"Richard Fry" <rfry@adams.net> wrote in message
news:ca4fcd94-5093-498c-a8cb-591b4b38e577@i18g2000prf.googlegroups.com...
On Jan 10, 9:06 am, Dave <d...@dave.dave> wrote:
> Richard Fry wrote:
> > On Dec 30 2008, 8:50 am, Eric wrote:
> > NEC shows this for a theoretically perfect 1/4-wave vertical
> > monopole system: etc

>I need to correct the values I posted earlier. I mis-read >the larger
>table I had constructed, which was apparent when >calculating the
>values for a ~200 degree vertical.

I don't work the low bands enough , but I would have thought someone would have just gave some prctical experiance instead of all the NEC stuff. Not many hams are going to put up a 60 some foot vertical and the required ground system for 80 meters.

Could not someone say that with horizontal dipoles about 30 feet up (or whatever is being used) you may get so many miles ground wave and during the day so many miles skywave and so many more at night ?

NEC and other programs are fine for predicting the coverage, but it does not take into account all the variatables that can be answered by the experiance of actual operations.

235. Re: Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 17:02:05 UTC
From: JB <nospam@goofball.net>
Message-ID: <hw4al.5264$Es4.2402@nwrddc01.gnilink.net>
Source record: 18408

"Gary Smith" <vkthree@gmail.com> wrote in message
news:gk9vqjbdq1@news-01.bur.connect.com.au...
> Hi, i have a 2/70 verticle that is "chalking" on the outside of the
> white section. I think this is the right term for it. If you grab it
> white powdery remnants stay on your hands or clothes. How do you go
> about fixing this? Wash with soap and water then spray enamel on it maybe?
>
> Thanks for any input...
>
> Gary
> VK3LCD

UV deterioration. Sand and use white Acrylic enamel. I have used it on
masts and Coax too. I have used other light Satin colors for camo effect
with no harm. Darker pigments may detune.

236. N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 17:24:11 UTC
From: ml <m@di.net>
Message-ID: <m-E7A0E3.12241110012009@news.optonline.net>
Source record: 18410

hi

Just wondering a few things

I see the center pin on a typical N connector is pretty small

How much power could it hold at HF and also uhf/vhf
frequencies? Assuming a modern day high quality N connector??

The other thing i pondered is that it seems the don't make
Pl259/so239 connectors for hardline, so what do guys use typically for
higher power DIN?

thanks

237. Re: inverted L antenna for 1431KHz MW band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 17:43:44 UTC
From: nm5k@wt.net
Message-ID: <e81dac82-b2ae-4c94-905d-8d5a97c34691@k1g2000prb.googlegroups.com>
Source record: 18411

On Jan 10, 6:01 am, tzitzikas <tzitzikas.3ae8...@radiobanter.com>
wrote:
> hi.
> i have a transmitter about 150 watt (output an 813 tube 1400vdc) at
> 1431khz (salonika greece) and the antenna that i'm using is an inverted
> L antenna (with a less than 5l/16 length ,about 20m vertical segment and
> 40m horizontal segment). the coupler that i'm using now is l-type .
athttp://www.geocities.com/tzitzikas_ee/antenna.gifyou can see a
> schematic of my coupler.
> i would like to improve the efficiency of my antenna.
> i would like to ask you which inverted L lenght is better for stronger
> local signals:
> 1/2, 3/8, 5/16, 5/8 or 1/2 wavelenght? thanks
>
> --
> tzitzikas

The only way to improve efficiency is to improve the ground
radial system.
With the exception of current distribution possibly effecting
efficiency, which again actually leads back to ground loss
around the base of the antenna, changing the length of the
radiator only effects the pattern.
And being you are transmitting to locals using ground or
space wave, you want the polarization to be as purely vertical
as possible. So unless you can erect the longer length radiators
as verticals, using the longer lengths would probably hurt you
rather than help. You will have more radiation from the
horizontal section of the radiator, which is not what you want.
As far as the radiator, one of the best ones to use has already
been mentioned. The "T" vertical. You want to use a balanced
top hat, or wires, so that the radiation from the horizontal sections
cancels out. That will leave you with a mostly vertical polarization.
So it sounds like the me the best radiator is the longest vertical
wire you can erect, with a T horizontal section, not as an Inv L.
Once you do that, the only way to improve efficiency is to add
more ground radials.
The longer length radiators will only help your case if they are
fully vertical. A short vertical section with the rest horizontal is
going to hurt you, not help. Well, unless you are working NVIS..
But this is not the case operating a local MW station to other
locals.

238. Re: How to estimate groundwave distance?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 18:05:45 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lunhm41gujiv2uaf7ubkpt61fmobhgou0m@4ax.com>
Source record: 18412

On Sat, 10 Jan 2009 11:49:11 -0500, "Ralph Mowery"
<rmowery28146@earthlink.net> wrote:

>I don't work the low bands enough , but I would have thought someone would
>have just gave some prctical experiance instead of all the NEC stuff. Not
>many hams are going to put up a 60 some foot vertical and the required
>ground system for 80 meters.

That's OK, not many hams read these threads either. They fully expect
they are doing their best, and certainly their experience proves it.

>Could not someone say that with horizontal dipoles about 30 feet up (or
>whatever is being used) you may get so many miles ground wave and during
>the day so many miles skywave and so many more at night ?

Those same Hams that don't read these threads, and don't build 60+
foot radiators with elaborate ground systems don't realize that
horizontal antennas don't have ground waves anyway. So what coverage
they do get is perfect and they probably got an ARRL award for
horizontal antenna ground wave WAC already when they sent in the
box-top of their favorite breakfast.

>NEC and other programs are fine for predicting the coverage, but it does not
>take into account all the variatables that can be answered by the
>experiance of actual operations.

NEC doesn't predict coverage, it is an antenna modeler, not a
propagation modeler (which would fit into your "other programs"). That
aside, these programs account for more variables than imagined by
those Hams that don't read these threads and don't build 60+ foot
radiators with elaborate ground systems. They have already had the
experience of actual operations and nothing is better than that.

So, why are we writing about those experienced, award winning Hams who
don't read these threads, expect ground wave from their horizontal
antenna, couldn't list more than one variatable and are satisfied with
sub-par to mediocre performance?

73's
Richard Clark, KB7QHC

239. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 18:32:53 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <pR5al.4225$PH1.1330@edtnps82>
Source record: 18413

>No Frank I was careless.
>When you are determining the area under a curve, the curve has an
>equation
>When the graph is roughly drawn out you draw a narrow vertical strip
>that represents dy/dx
>That strip has no specific thickness as it represents a vanishingly
>thin strip.

You appear to be confused with the defininition of the integral. You simply integrate the function over the desired range, and should not be concerned with irrelevant concepts, such as strip widths.

>If the area represented a cross section of a radiator the thickness of
>that strip is then a problem.

No such strip exists in integration.

>As a radiator dx could represent the skin depth or it could represent
>the distance from the surface to the center line and thus the cross

Not so; "dx" simply refers to the independant variable to be integrated. Note the first example of a "Reimann integral" at:
http://mathworld.wolfram.com/Integral.html

>section would not be homogenous, same density etc
>The problem then becomes what is the true skin depth density in
>relation to the inner core which allows for the application of the
>material resistance.

To determine the RF resistance of a conductor requires a solution involving "Kelvin/Thompson" functions; which are modified Bessel functions with a complex argument. See the following for details:
http://www.st-andrews.ac.uk/~www_pa/Scots_Guide/audio/skineffect/page1.html
Also:
http://mathworld.wolfram.com/Bei.html
http://mathworld.wolfram.com/Ber.html

>Now I see skin depth as the point that eddy current becomes a
>contained current circuit without discontinuity. The books define skin
>depth as a relation of decay which is not how I see things so we have
>a difference in proving things one way or the other.

Ansoft's (www.ansoft.com) "Maxwell" is a "Finite Element Modeling" (FEM) program which, among other things, can accurately produce a graphical representation of the current distribution in a cylindrical conductor. See examples at:

http://www3.telus.net/nighttrainexpress/skin%20depth.htm
These graphs are reproduced from an article in the November/December
issue of QEX magazine, pp20 - 29, by Rudy Severns, N6LF.

>I then added
>aunconnected problem by drifting towards integration and limits ie
>travelling back from integration to the differation format which was a
>silly mistake for which I have been already reprimanded by the nets
>monitor who looks out for those things rather than the technical
>content.

Sorry, I don't mean to be insulting, but I am baffled how you can
have such problems with elementary math; yet argue about
concepts taught in a third year electrical engineering degree
program with prerequisites in advanced calculus, partial differential
equations, and more.

>I really believe that the answer lays on Maxwells laws and not with
>the approximation supplied by Uda/Yagi.

I agree, but Yagi and Uda simply build experimental models. Which
is about all anybody could do in those days.

>Computor programs say the same thing via the tipping radiator which
>all deny so there is no possible solution to be arrived at that
>satisfies all unless somebody provides answers that reflect Maxwell
>and not Yagi/Uda rather than "I said so" as every thing is known and
>is in the books that I own. At no time have I taken your postings as
>mocking or otherwise insincere as you are the only person who used a
>antenna program in conjuction with my beliefs which shows radiators as
>not being parallel with the surface of the Earth where others refused
>to check in any way.

Many hams interested in low frequency DX use sloping (monopole) radiators,
which gives a slight improvement in low angle radiation.

>As I stated in an earlier posting one must graph
>the current levels at the top of a radiator by superimposing both
>graphs where both the leading and trailing currents arrive at the end
>(time separation of half a period)so that current direction can be
>determined since in one case there is no eddy current and the other
>case does have eddy currents(flow resistance) on the surface which
>thus determines current flow direction at each point.

Sorry, but you lost me again.

73,

Frank

240. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 21:46:58 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <85198f84-dee9-4b04-a03e-8349c9db5dbc@p36g2000prp.googlegroups.com>
Source record: 18414

On Jan 10, 12:32 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> >No Frank I was careless.
> >When you are determining the area under a curve, the curve has an
> >equation
> >When the graph is roughly drawn out you draw a narrow vertical strip
> >that represents dy/dx
> >That strip has no specific thickness as it represents a vanishingly
> >thin strip.
>
> You appear to be confused with the defininition of the integral. You
> simply integrate the function over the desired range, and should not be
> concerned with irrelevant concepts, such as strip widths.
>
> >If the area represented a cross section of a radiator the thickness of
> >that strip is then a problem.
>
> No such strip exists in integration.
>
> >As a radiator dx could represent the skin depth or it could represent
> >the distance from the surface to the center line and thus the cross
>
> Not so; "dx" simply refers to the independant variable to be integrated.
> Note the first example of a "Reimann integral"
at:http://mathworld.wolfram.com/Integral.html
>
> >section would not be homogenous, same density etc
> >The problem then becomes what is the true skin depth density in
> >relation to the inner core which allows for the application of the
> >material resistance.
>
> To determine the RF resistance of a conductor requires a
> solution involving "Kelvin/Thompson" functions; which are
> modified Bessel functions with a complex argument. See the
> following for
details:http://www.st-andrews.ac.uk/~www_pa/Scots_Guide/audio/skineffect/page...
> Also:http://mathworld.wolfram.com/Bei.htmlhttp://mathworld.wolfram.com/Ber.html
>
> >Now I see skin depth as the point that eddy current becomes a
> >contained current circuit without discontinuity. The books define skin
> >depth as a relation of decay which is not how I see things so we have
> >a difference in proving things one way or the other.
>
> Ansoft's (www.ansoft.com) "Maxwell" is a "Finite Element Modeling"
> (FEM) program which, among other things, can accurately produce

> a graphical representation of the current distribution in a cylindrical
> conductor. See examples at:http://www3.telus.net/nighttrainexpress/skin%20depth.htm
> These graphs are reproduced from an article in the November/December
> issue of QEX magazine, pp20 - 29, by Rudy Severns, N6LF.
>
> >I then added
> >aunconnected problem by drifting towards integration and limits ie
> >travelling back from integration to the differation format which was a
> >silly mistake for which I have been already reprimanded by the nets
> >monitor who looks out for those things rather than the technical
> >content.
>
> Sorry, I don't mean to be insulting, but I am baffled how you can
> have such problems with elementary math; yet argue about
> concepts taught in a third year electrical engineering degree
> program with prerequisites in advanced calculus, partial differential
> equations, and more.

Frank
I understand that you are baffled. I retired early from GE with a
heart attack which was then followed by a series of operations before
I again had a open heart op with 5 bypasses plus
and a few other side problems. My first heart attack to my memory
away, could not even read beyond one line. So I focussed on antennas
to keep myself alive and to reroute my brain.
With my tunnel vision retraining over the last decade plus I regained
a tunnel type memory where I focussed solely on antennas. With my
present project I have had to retrain in various aspect which required
leapfrogg some of the basics but with ten plus years of work, 3 steps
forward and two steps back I now consider myself something of an
expert on a subject which is long and deep but narrow in span. On my
antenna concept I am absolutely sure regarding what I have found, even
sought confirming examination but when I venture off channel with
respect to this group I go wonky
I believe that because of the latter my credibility suffers when I
communicate which energises a trend to insult rather than to take an
effort to follow what I have done and rechecked an unknown amount of
times over the years. Thus with the concept that all is known and if I
am correct it would have been done 100 years ago rises to the top
while ignoring things from my side that I have to
learn and review everything from first principles while using the
tools of today.
The first patent has been printed and will soon b e reviewed which
also includes a description from the times of Gauss. I look forward
to that time as it will pull into the open my discoveries.
In the mean time I will contunue to make my point on the newsgroup.
Main problem is that many have a antenna program but it apears none
have the more expensive optimizer and none have used the free versions
that are available. So the proof provided by NEC2 and 4 and mininec
is beyond this groups ability to come to grips with. The bottom line

is all povide the superior results
of tilted antennas thus the descision has to be made that all programs
are totally in error or all are
satisfactor descision that this group is not equipped to address. If
you want to follow my line of thinking because of my lapses into the
wonky side you can always use E mail rather than subject yourself to
the whims of the group. The bottom line of all this is that a
directional antenna for 160 metres is now available to which all hams
are anxious to avoid at all costs or to debunk all thoughts of
acceptance as all is known.
Best regards
Art

>
> >I really believe that the answer lays on Maxwells laws and not with
> >the approximation supplied by Uda/Yagi.
>
> I agree, but Yagi and Uda simply build experimental models. Which
> is about all anybody could do in those days.
>
> >Computor programs say the same thing via the tipping radiator which
> >all deny so there is no possible solution to be arrived at that
> >satisfies all unless somebody provides answers that reflect Maxwell
> >and not Yagi/Uda rather than "I said so" as every thing is known and
> >is in the books that I own. At no time have I taken your postings as
> >mocking or otherwise insincere as you are the only person who used a
> >antenna program in conjuction with my beliefs which shows radiators as
> >not being parallel with the surface of the Earth where others refused
> >to check in any way.
>
> Many hams interested in low frequency DX use sloping (monopole) radiators,
> which gives a slight improvement in low angle radiation.
>
> >As I stated in an earlier posting one must graph
> >the current levels at the top of a radiator by superimposing both
> >graphs where both the leading and trailing currents arrive at the end
> >(time separation of half a period)so that current direction can be
> >determined since in one case there is no eddy current and the other
> >case does have eddy currents(flow resistance) on the surface which
> >thus determines current flow direction at each point.
>
> Sorry, but you lost me again.

FRANK
When the leading edge of the half cycle reaches the open end of the
antenna the descision has to be made with the direction of movement.
Tradition is that current flows in a closed loop thus the descision is
between two or three routes
1 Capacitive coupling to ground as shown in some books to complete a
circuit
2 Turn around by ducking under the skin of the radiator to complete a

closed circuit
3 Invent a open circuit current flow which by turning around confronts its own tail which is producing
the eddy current resistance in the skin as it is yet to reach the end of the radiator.
From my point of view the leading edge cannot continue radiating or it will become a full size radiator. The material under the skin depth is an extremely low resistance path which cannot support the formation of eddy current as it has no access to a dialectric (air). This descision
also will not stray from the closed circuit traditions.
Now for the final eye popper, If a radiator is not in equilibrium there is a literal current flow on the outside which by the standard laws requires a literal current flow in the opposite direction.
Prior to the discovery of the eddy current users placed the return current in the air which prevented true understanding of radiation by using this flow as justification for radiation being produced by waves which was then extrapolated to prove that light was a matter of waves.
What I am asking for is a acceptance of particles at rest from the sun as being the true transportation of radiation which aligns directly with the suns rotation and the use of levitation of the particles from diamagnetic materials such as aluminum correr etc which cannot retain magnetism in the same proven methos used around the World when sorting and separating
materials in all the scrapyards,.As far as acceptance of particles emminating from nuclear burning of the sun in line with a cycle and their high density presence on Earth with the affinity for atraction for diamagnetic materials that has been accepted fully in the last few years in many reseach labs
in many diffgerent countries except....except... on this newsgroup
Art

>
> 73,
>
> Frank

241. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 22:06:58 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <p_8al.87494$9i5.44956@en-nntp-07.dc1.easynews.com>
Source record: 18415

ml wrote:
> hi
>
> Just wondering a few things
>
> I see the center pin on a typical N connector is pretty small
>
> How much power could it hold at HF and also uhf/vhf
> frequencies? Assuming a modern day high quality N connector??
>
> The other thing i pondered is that it seems the don't make
> Pl259/so239 connectors for hardline, so what do guys use typically for
> higher power DIN?
>

I don't know what you mean by 'hard line,' but 259/239 take legal power
and all I know everyone uses on RG8/ and up with legal power.

Marv

242. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 22:32:47 UTC
From: Dave <dave@dave.dave>
Message-ID: <F6ydnZoU0s-Sv_TUnZ2dnUVZ_g6dnZ2d@earthlink.com>
Source record: 18416

MTV wrote:
> ml wrote:
>> hi
>>
>> Just wondering a few things
>> I see the center pin on a typical N connector is pretty small
>>
>> How much power could it hold at HF and also uhf/vhf
>> frequencies? Assuming a modern day high quality N connector??
>>
>> The other thing i pondered is that it seems the don't make
>> Pl259/so239 connectors for hardline, so what do guys use typically
>> for higher power DIN?
>>
>
> I don't know what you mean by 'hard line,' but 259/239 take legal power
> and all I know everyone uses on RG8/ and up with legal power.
>
> Marv

At UHF? 1500 Watts through a PL-259?

243. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 22:33:51 UTC
From: Dave <dave@dave.dave>
Message-ID: <F6ydnZUU0s_Nv_TUnZ2dnUVZ_g4AAAAA@earthlink.com>
Source record: 18417

MTV wrote:
> ml wrote:
>> hi
>>
>> Just wondering a few things
>> I see the center pin on a typical N connector is pretty small
>>
>> How much power could it hold at HF and also uhf/vhf
>> frequencies? Assuming a modern day high quality N connector??
>>
>> The other thing i pondered is that it seems the don't make
>> Pl259/so239 connectors for hardline, so what do guys use typically
>> for higher power DIN?
>>
>
> I don't know what you mean by 'hard line,' but 259/239 take legal power
> and all I know everyone uses on RG8/ and up with legal power.
>
> Marv

At higher frequencies and/or long runs the RG8 is a poor choice.

244. Re: How to estimate groundwave distance?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 22:41:56 UTC
From: richardharrison@webtv.net
Message-ID: <28980-49692434-193@storefull-3171.bay.webtv.net>
Source record: 18420

Save wrote:
"Wouldn`t a 200 degree vertical wotk better?"

Field strength versus tower height rises with height up to about 225 degrees. See Fig. 2.1 on page 80 of E.A. laport`s "Radio Antenna Engineering".

Best regards, Richard Harrison, KB5WZI

245. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 22:42:34 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <uv9al.5318$Es4.3628@nwrddc01.gnilink.net>
Source record: 18418

```
"ml" <m@di.net> wrote in message
news:m-E7A0E3.122411100012009@news.optonline.net...
> hi
>
> Just wondering a few things
>
> I see the center pin on a typical N connector is pretty small
>
> How much power could it hold at HF and also uhf/vhf
> frequencies? Assuming a modern day high quality N connector??
>
> The other thing i pondered is that it seems the don't make
> Pl259/so239 connectors for hardline, so what do guys use typically for
> higher power DIN?
>
>
>
> thanks

Hi ml

Can you find this site on the Internet?

Jerry KD6JDJ
```

246. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 22:50:05 UTC
From: Dave <noone@nowhere.com>
Message-ID: <xC9al.5323$Es4.1968@nwrddc01.gnilink.net>
Source record: 18419

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:85198f84-dee9-4b04-a03e-8349c9db5dbc@p36g2000prp.googlegroups.com...
On Jan 10, 12:32 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
What I am asking for is a acceptance of particles at rest from the sun
as being the true transportation of radiation which aligns directly
with the suns rotation and the use of levitation of the particles from
diamagnetic materials such as aluminum correr etc which cannot retain
magnetism in the same proven methos used around the World when sorting

so, now you say my ferromagnetic radiators CAN'T work???

247. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 23:02:01 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2c84b8a4-745e-4238-8522-6eab8b772fee@r36g2000prf.googlegroups.com>
Source record: 18421

On Jan 10, 4:50 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in
messagenews:85198f84-dee9-4b04-a03e-8349c9db5dbc@p36g2000prp.googlegroups.com...
> On Jan 10, 12:32 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> What I am asking for is a acceptance of particles at rest from the sun
> as being the true transportation of radiation which aligns directly
> with the suns rotation and the use of levitation of the particles from
> diamagnetic materials such as aluminum correr etc which cannot retain
> magnetism in the same proven methos used around the World when sorting
>
> so, now you say my ferromagnetic radiators CAN'T work???

No
It depends on the power or current taken by the hysteresis which
limits
the displacement current/field generation. Without this generated
field
there is no displacement of diamagnetic materials, it is a very weak
force
even in ideal conditions. On the other hand it is possible that any
coating aplication
will do all the work that is required

248. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 23:10:31 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <27d4d334-3856-405e-9f1a-3c1837e686fe@k1g2000prb.googlegroups.com>
Source record: 18422

On Jan 10, 3:46 pm, Art Unwin wrote:
> ... If a radiator is not in equilibrium there is a literal current flow
> on the outside which by the standard laws requires a literal
> current flow in the opposite direction.

Art: Whether or not a radiator meets your definition of
"equilibrium," the r-f current flow along it ALWAYS falls to ~zero at
its unterminated end(s). It MUST do so, as no real, physical path to
conduct r-f current.exists beyond such a limit.

The near-total reflection of such current results in the standing wave
patterns seen in the plots linked below.

This link also shows that the reflected current travels along the
outside of the conductor. If it did not, it would NOT result in these
current distributions carefully measured by Gihring and Brown over 70
years ago, and which you continue to spurn.

http://i62.photobucket.com/albums/h85/rfry-100/CurrentOnWireAntennas.gif

RF

249. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-10 23:15:42 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <y_9al.5341$Es4.1205@nwrddc01.gnilink.net>
Source record: 18423

```
"Jerry" <jerrymartes@verizon.net> wrote in message
news:uv9al.5318$Es4.3628@nwrddc01.gnilink.net...
>
> "ml" <m@di.net> wrote in message
> news:m-E7A0E3.12241110012009@news.optonline.net...
>> hi
>>
>> Just wondering a few things
>>
>> I see the center pin on a typical N connector is pretty small
>>
>> How much power could it hold at HF and also uhf/vhf
>> frequencies? Assuming a modern day high quality N connector??
>>
>> The other thing i pondered is that it seems the don't make
>> Pl259/so239 connectors for hardline, so what do guys use typically for
>> higher power DIN?
>>
>>
>>
>> thanks
>
> Hi ml
>> Can you find this site on the Internet?
>> http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial.pdf

>
> Jerry KD6JDJ
>
```

250. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 00:52:02 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Sobal.5370$Es4.3682@nwrddc01.gnilink.net>
Source record: 18424

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:2c84b8a4-745e-4238-8522-6eab8b772fee@r36g2000prf.googlegroups.com...
On Jan 10, 4:50 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in
messagenews:85198f84-dee9-4b04-a03e-8349c9db5dbc@p36g2000prp.googlegroups.com...
> On Jan 10, 12:32 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> What I am asking for is a acceptance of particles at rest from the sun
> as being the true transportation of radiation which aligns directly
> with the suns rotation and the use of levitation of the particles from
> diamagnetic materials such as aluminum correr etc which cannot retain
> magnetism in the same proven methos used around the World when sorting
>
> so, now you say my ferromagnetic radiators CAN'T work???

No
It depends on the power or current taken by the hysteresis which
limits
the displacement current/field generation. Without this generated
field
there is no displacement of diamagnetic materials, it is a very weak
force
even in ideal conditions. On the other hand it is possible that any
coating aplication
will do all the work that is required

so even a coating that is not diamagnetic will levitate your magical jumping
neutrinos? why would they even light on my ferromagnetic antennas?? and
why would the ferromagnetic ones work better than diamagnetic ones?? can't
stand to see real world data??? well, this is it. ferromagnetic antennas DO
work, and they work very well... so your magical levitating solar
diamagnetic neutrino theory is a bunch of bull. oh, and unless i have
missed a measurement here and there, reflected currents from the ends of
antennas DO flow on the outside of the conductor and are very measurable....
i do it all the time... so stuff that up your pipe and smoke it!

251. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 00:59:06 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a55d3c36-43e3-4a71-89c3-64a49a3aaf2e@f40g2000pri.googlegroups.com>
Source record: 18425

On Jan 10, 5:10 pm, Richard Fry <r...@adams.net> wrote:
> On Jan 10, 3:46 pm, Art Unwin wrote:
>
> > ... If a radiator is not in equilibrium there is a literal current flow
> > on the outside which by the standard laws requires a literal
> > current flow in the opposite direction.
>
> Art: Whether or not a radiator meets your definition of
> "equilibrium," the r-f current flow along it ALWAYS falls to ~zero at
> its unterminated end(s). It MUST do so, as no real, physical path to
> conduct r-f current.exists beyond such a limit.
>
> The near-total reflection of such current results in the standing wave
RF just look at what you have written and I suppose shouted in
response to my post

I gave the reasons for my line of thinking having gone thru the
routine of reading and accepting
what the books say.
You spurned my statement giving no reason why it should not be
accepted
Not surprising really as that is the pattern of this group.
Before that I raised the question that if antenna programs all agreed
on the sloping radiator as being the best is that a reason on which I
can declare programs as proof as what I do.
Yup, no answers either because I was spurned or nobody is familiar
with the programs to supply an answer.
Now you throw at me the books together with some sort of abstract and
demand that I should fall in line with everybody else. Well once apon
a time I was a lemming and believed all that was in print.
Now I am examining everything, point by point for my own satisfaction
and coming up with different solutions. Yes I am well aware of the
books that are thrown at me and now I am thinking for myself
which if anybody is going to progress all must do. For that you object
because apparently your request comes first in your mind. Now look at
what you wrote again in a logical fashion and then retire to the
outhouse and think about the rationalisation of the modes of progress
that I supplied
and you state why some would be rejected and why together why
something totally trumps what I stated or answer the question on
antenna computer programs.
On the other hand if you have a question start a new thread !

> current distributions carefully measured by Gihring and Brown over 70
> years ago, and which you continue to spurn.

>
>
> RF

252. Re: Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 03:47:15 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <485b09e7-925a-402e-b4ca-f0c7a531b57f@n33g2000pri.googlegroups.com>
Source record: 18426

On Jan 10, 6:12 am, Gary Smith <vkth...@gmail.com> wrote:
> Hi, i have a 2/70 verticle that is "chalking" on the outside of the
> white section. I think this is the right term for it. If you grab it
> white powdery remnants stay on your hands or clothes. How do you go
> about fixing this? Wash with soap and water then spray enamel on it maybe?
>
> Thanks for any input...
>
> Gary
> VK3LCD

acrylic enamel auto paint. I did a camo paint job and the neighbors
thought I took yhe antenna down.

Jimmie

253. Re: How to estimate groundwave distance?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 03:57:26 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <xP2dnSwis7q18_TUnZ2dnUVZ_tHinZ2d@posted.easystreetonline>
Source record: 18427

Ralph Mowery wrote:
>
> I don't work the low bands enough , but I would have thought someone would
> have just gave some prctical experiance instead of all the NEC stuff. Not
> many hams are going to put up a 60 some foot vertical and the required
> ground system for 80 meters.
>
> Could not someone say that with horizontal dipoles about 30 feet up (or
> whatever is being used) you may get so many miles ground wave and during
> the day so many miles skywave and so many more at night ?

The basic problem is that there isn't a simple answer to your question.
Any simple answer you'd get would be wrong much or most of the time.

It's safe to say that you won't get any ground wave communication at all
with a horizontal antenna, unless a vertical feedline is radiating. The
range with a vertical antenna depends on the noise level, which changes
day to day, season to season, and day to night, as well as ground
conductivity and power level. The ARRL Antenna Book gives a "typical"
ground wave range of around 60 miles at 3.5 MHz, but of course this
depends on the factors I've mentioned, among others -- it's one of those
"simple" answers.

Sky wave communication range depends on the condition of the ionosphere.
Sometimes you'll be able to communicate hundreds of miles, sometimes
zero. There is no range you can depend on. If you're interested in the
performance of a low dipole on 80 meters, I highly recommend _Near
Vertical Incidence Skywave Communication_ by Fiedler and Farmer.

> NEC and other programs are fine for predicting the coverage, but it does not
> take into account all the variatables that can be answered by the
> experiance of actual operations.

Unfortunately, experience doesn't take into account all the variables
either. No one or group of people have experience with all possible
antennas, ground conditions, ionospheric conditions, and noise levels,
so one person's experience is likely to be different from another's.
The value of modeling is that it allows you to see which factors are
important and in what way, so you can get a better idea of what
performance you might get under your particular set of circumstances --
rather than someone else's.

Roy Lewallen, W7EL

254. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 04:29:19 UTC
From: Fred McKenzie <fmmck@aol.com>
Message-ID: <fmmck-E4168F.23291810012009@news.mixmin.net>
Source record: 18428

In article <m-E7A0E3.12241110012009@news.optonline.net>, ml <m@di.net>
wrote:

> The other thing i pondered is that it seems the don't make
> Pl259/so239 connectors for hardline, so what do guys use typically for
> higher power DIN?

ML-

I would expect hardline manufacturers to use a standard connector intended for the power and frequency involved, but designed to fit the end of their cable.

When hardline is chosen because of low loss rather than needing high power, it is often used for long runs with a short flexible cable at the end to connect to equipment. In this application, use of type N connectors is common, with a female connector custom made to fit the hardline.

You can get adapters for PL259/SO239, but those are lousy connectors for RF. Their impedance is not constant from one end to the other!

Fred
K4DII

255. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 05:13:46 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e13daa31-3c18-4e17-8561-353608c7ef5d@w39g2000prb.googlegroups.com>
Source record: 18429

On Jan 10, 10:29 pm, Fred McKenzie <fm...@aol.com> wrote:
> In article <m-E7A0E3.12241110012...@news.optonline.net>, ml <m...@di.net>
> wrote:
>
> > The other thing i pondered is that it seems the don't make
> > Pl259/so239 connectors for hardline, so what do guys use typically for
> > higher power DIN?
>
> ML-
>
> I would expect hardline manufacturers to use a standard connector
> intended for the power and frequency involved, but designed to fit the
> end of their cable.
>
> When hardline is chosen because of low loss rather than needing high
> power, it is often used for long runs with a short flexible cable at the
> end to connect to equipment. In this application, use of type N
> connectors is common, with a female connector custom made to fit the
> hardline.
>
> You can get adapters for PL259/SO239, but those are lousy connectors for
> RF. Their impedance is not constant from one end to the other!
>
> Fred
> K4DII

What I use on 7/8 hardline is a copper reducer with a barrel connecter
soldered
into one end and then I screw the combination over the hard line. Now
you have an output from the hardline that can fit most things . One
time I filled the copper reducer with dielectric before I inserted the
barrel connecter but could see no difference using max power.
Certainly a lot cheaper
than Andrews connectors and if the coax route is not ideal it is easy
and inexpensive to add flexible lengths at tight corners, such as
emerging from underground piping. Hardline gets extremely rigid and
the outer insulation is subject to cracking in the winter time which
is when I seem to have to work on things.
Art

256. Stop Israeli terrorism against Palestine’s children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 07:33:24 UTC
From: asd <telbana2@gmail.com>
Message-ID: <bbff08ec-e81a-4d3a-8248-efa408c8e8c1@m22g2000vbp.googlegroups.com>
Source record: 18430

See the Zionist terrorism against Palestine’s children

http://www.slide.com/r/Cr-oz5Wx5D_4b_n7quhfYQ_7CoJPFnUM?

257. Re: Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 09:35:10 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <j0jal.2343$Ex.736@bignews8.bellsouth.net>
Source record: 18431

"Gary Smith" <vkthree@gmail.com> wrote in message
news:gk9vqjbdq1@news-01.bur.connect.com.au...
> Hi, i have a 2/70 verticle that is "chalking" on the outside of the white
> section. I think this is the right term for it. If you grab it white
> powdery remnants stay on your hands or clothes. How do you go about fixing
> this? Wash with soap and water then spray enamel on it maybe?
>
> Thanks for any input...
>
> Gary
> VK3LCD

Find a paint with a good UV blocker. It sounds like the sunlight is
adversely affecting the binder in the fiberglass.

Ed, N2ECW

258. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 09:46:52 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <hbjal.2347$Ex.434@bignews8.bellsouth.net>
Source record: 18432

"Cecil Moore" <nospam@w5dxp.com> wrote

> If one doesn't know what magnitude of impedance is
> being encountered by the balun, the best balun
> solution is a husky 1:1 current (choke) balun, not
> a 4:1 voltage balun which is designed to deal with
> 200 ohms, not 2000+j2000 ohms.
> --
> 73, Cecil http://www.w5dxp.com

I used to be good at this stuff, Cecil, but that was long ago.

The only balun that has worked with any success so far has been the built-in balun (4:1 allegedly) in my MFJ-989C. That I can get to work. When hooking up other baluns and using the coax output on my tuner, none of the other baluns work worth a hoot with one exception. I have an LDG 1:1 200 watt balun that will tune my Van Gordon All Bander from one end to the other of the HF spectrum, using just the internal tuner of my Yaesu FT-890AT. Go figure.

I used to be a fairly sharp cookie at this stuff, but those days are in the past. Got a serious case of "brick brain syndrome", if you know what I mean?

To my way of thinking (which is probably incorrect), using the 4:1 balun would broaden the impedances that I could match versus the 1:1 balun. What you are saying is just the opposite. Please elaborate. I will be most grateful.

Ed, N2ECW

259. Re: Stop Israeli terrorism against Palestine&#65533;s children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 11:33:55 UTC
From: tzitzikas <tzitzikas.3afde17@radiobanter.com>
Message-ID: <tzitzikas.3afde17@radiobanter.com>
Source record: 18443

asd;662958 Wrote:
> See the Zionist terrorism against Palestine&#65533;s children
>
> http://www.slide.com/r/Cr-oz5Wx5D_4b_n7quhfYQ_7CoJPFnUM?

israel kills inoccent people. many of them are childrens and womens.
Greek citizens support Palestine&#65533;s people!

--
tzitzikas

260. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 12:50:32 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <d9e86843-7932-43f6-89e6-0072225f0b2a@s9g2000prm.googlegroups.com>
Source record: 18433

On Jan 10, 6:59 pm, Art Unwin wrote:

> I gave the reasons for my line of thinking having gone thru the
> routine of reading and accepting what the books say. You
> spurned my statement giving no reason why it should not be
> accepted.

Not so, Art.

The simplest reason that you should abandon your line of thinking about there being no current reflection from the unterminated end along the outside of all radiators is that such beliefs were proven invalid by the measured results of Gihring and Brown over 70 years ago -- as shown in the excerpt of their IRE paper which has been linked to twice, now.

RF

261. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 14:40:15 UTC
From: Dave <noone@nowhere.com>
Message-ID: <jxnal.5903$Es4.2766@nwrddc01.gnilink.net>
Source record: 18434

"Richard Fry" <rfry@adams.net> wrote in message
news:d9e86843-7932-43f6-89e6-0072225f0b2a@s9g2000prm.googlegroups.com...
On Jan 10, 6:59 pm, Art Unwin wrote:

> I gave the reasons for my line of thinking having gone thru the
> routine of reading and accepting what the books say. You
> spurned my statement giving no reason why it should not be
> accepted.

Not so, Art.

The simplest reason that you should abandon your line of thinking
about there being no current reflection from the unterminated end
along the outside of all radiators is that such beliefs were proven
invalid by the measured results of Gihring and Brown over 70 years ago
-- as shown in the excerpt of their IRE paper which has been linked to
twice, now.

RF

the more it gets quoted the more he will consider it lemming talk and reject
it. art is in his own little world now, full of magical levitating
diamagnetic neutrinos and burrowing anti-eddy currents up the middle of
conductors... of course, where those currents go when they reach the
feedpoint would be an interesting thing to hear, maybe art can comment on
that for a while... they probably just jump up to the surface again and go
around in circles.

262. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 14:59:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <6Pnal.4772$jZ1.1771@flpi144.ffdc.sbc.com>
Source record: 18435

Ed Cregger wrote:
> I have an LDG 1:1 200 watt
> balun that will tune my Van Gordon All Bander from one end to the other of
> the HF spectrum, using just the internal tuner of my Yaesu FT-890AT. Go
> figure.

If this is the 80m dipole with 100' of ladder-line, one
can look at my notuner all-band-HF antenna to see why
100' is a good fixed length for the ladder-line. 100'
is near a current maximum point (loop) on all HF bands.
If one varies the length of the ladder-line from 90' to
115', one doesn't even need a tuner and a 1:1 current-
balun-choke is ideal.

http://www.w5dxp.com/pnts130.gif

> To my way of thinking (which is probably incorrect), using the 4:1 balun
> would broaden the impedances that I could match versus the 1:1 balun. What
> you are saying is just the opposite. Please elaborate. I will be most
> grateful.

A 4:1 balun is a very good transformer over a narrow range.
Most are voltage baluns that do not balance currents and
therefore do little to discourage common-mode currents. Test
a balun looking into 2000+j2000 and see what happens. One
of my 4:1 baluns got so hot I couldn't touch the case. The
best balun design, IMO, is one where flux in the ferrite
is caused only by common-mode current and not by
differential-mode current.

Here's some useful information:

http://www.dxengineering.com/TechArticles.asp?ID={3E5220F7-2D0F-45B5-85F7-3B654F804C4F}
--
73, Cecil http://www.w5dxp.com

263. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 15:09:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <AYnal.17432$Ws1.4372@nlpi064.nbdc.sbc.com>
Source record: 18436

Art Unwin wrote:
> When you move out further with the introduction of protons my eyes
> glaze over because I know nothing of such things.

Actually, photons are easier to understand than Maxwell's
equations. Maybe it would help if you researched the
ability of electron carriers to absorb and/or emit
photons plus the physical characteristics of electrons
and photons. Wikipedia has fairly good sections on
these two elementary particles.

http://en.wikipedia.org/wiki/Photon

http://en.wikipedia.org/wiki/Electron
--
73, Cecil http://www.w5dxp.com

264. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 15:47:30 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <YAoal.8776$pr6.7589@flpi149.ffdc.sbc.com>
Source record: 18437

Cecil Moore wrote:
> http://www.dxengineering.com/TechArticles.asp?ID={3E5220F7-2D0F-45B5-85F7-3B654F804C4F}

If anyone has trouble with that URL, you may need to cut
and paste the entire URL into your browser.
--
73, Cecil http://www.w5dxp.com

265. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 16:37:20 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2aeb39a7-2b44-4780-878e-d82701380466@z28g2000prd.googlegroups.com>
Source record: 18438

On Jan 11, 9:09 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > When you move out further with the introduction of protons my eyes
> > glaze over because I know nothing of such things.
>
> Actually, photons are easier to understand than Maxwell's
> equations. Maybe it would help if you researched the
> ability of electron carriers to absorb and/or emit
> photons plus the physical characteristics of electrons
> and photons. Wikipedia has fairly good sections on
> these two elementary particles.
>
> http://en.wikipedia.org/wiki/Photon
>
> http://en.wikipedia.org/wiki/Electron
> --
> 73, Cecil http://www.w5dxp.com

Cecil, I try to read all sides but the botton line is that
communication is definitely linked to the Sun.
Also It is known that antennas are made from diagmagnetic material and
the expansion of Gaussian law implies the presence of particles.
The books support Maxwells equations to its limits and none of the
above violate those same principles when based on mathematics. I
understand that words like photon and quarks are parotted around and
it may be correct but I have no indication of what their reaction is
with respect
to a rejection force of diamagnetic materials. If it was proven that a
particle from the sun when resting on a diagmagnetic surface loses its
original qualities via a radical change in the particle itself then I
would be forced to consider it. But that is only a theory that is not
backed up by known facts. That is why I turn the subject on its head
when I turn to computer programs which are a fact of life and in use.
Thus the question is reduced from these other aproaches by asking the
question,
why do antenna programs agree that a vertical antenna must be tilted
for best results? Forget the theoretical routes that current takes and
also the presence of particles I have brought the question
of antennas to the level of every body. There is the Eznec program
available to all so all can tackle this paradox for themselves very,
very simply. Input a vertical full wave antenna at various angles in a
resonant form and see what angle is best. Simple oh so simple. No
arguements, no disputes, no presentation of selected articles just a
simple personal homework assignment which is very specific to which

there is only one answer. for say vertical radiation.
No, it is not in the books so it has to be YOUR findings as in
homework
When the answers come back I will place an answer on my page that is
acceptable to all programs in existance. If you have a program with an
optimiser then the project takes less that 5 minuits.
If you use your own programs it will take longer after which you will
be confident of the answer you arrive at. It is very cold outside so
you really have nothing better to do than to shut Art's mouth up once
and for all with a fact that is inescapable of escape from, one that
satisfies all.
Vertical full wave antenna, frequency 14.00Mhz ,diameter 1 inch
material aluminum
Art

266. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 16:47:55 UTC
From: Dave <noone@nowhere.com>
Message-ID: <%opal.5126$BC4.1099@nwrddc02.gnilink.net>
Source record: 18439

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:2aeb39a7-2b44-4780-878e-d82701380466@z28g2000prd.googlegroups.com...
Also It is known that antennas are made from diagmagnetic material and
the expansion of Gaussian law implies the presence of particles.
I have ferromagnetic antennas that art can't explain. obviously they work
and i have never seen any magical levitating neutrinos jumping off them!
Vertical full wave antenna, frequency 14.00Mhz ,diameter 1 inch
material aluminum
Art
change that material to steel and see if it still works!

267. Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 17:07:00 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <bb97e2a3-14d4-4d30-bbdc-ca5b781efeab@q30g2000prq.googlegroups.com>
Source record: 18440

Cecil
To provide a specific answer to your post that photons must be part of
a
phenomina that I propose. I cannot implant the photon such that it
makes my stance more credible. I would consider you a hero if YOU show
how a photon
fits in with radiation in accordance with Maxwells laws
.....
The books state that a photon is a particle without mass.
It comes about by separation from a particle by a different name it
never the less a particle with mass.
The photon as a particle cannot be a wave since its extremities cannot
be determines as with a particle.

If a photon has no mass it cannot have spin which is reliant on
Newtons laws
which requires a circular force around a central point of mass itself.
Since it is now proven that Neutrinos do have mass as a particle in
the last few years the massless state of a photon must come under
question.
So why procede into dividing particles into those with mass and those
without mass when all can agree that they are indeed particles which
may or may not change its constituents at some time and at some place
that cannot be determined where as the particle from the sun named
Neutrinos is accepted as a particle with mass and that has a presence
here on Earth?
Because this is a known fact I prefer at this time not to challenge in
favor of a theory. That is my logic which I pursue which is a
plausable explanation of levitation in use and visible in industry
around the World and has the mathematical authenticity of Maxwell laws
Best regards
So is it not better

268. Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 17:07:43 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ef369d61-d0cb-4de2-9de7-07c02abd4b46@v5g2000prm.googlegroups.com>
Source record: 18441

Cecil
To provide a specific answer to your post that photons must be part of a
phenomina that I propose. I cannot implant the photon such that it makes my stance more credible. I would consider you a hero if YOU show how a photon
fits in with radiation in accordance with Maxwells laws
.....
The books state that a photon is a particle without mass.
It comes about by separation from a particle by a different name it never the less a particle with mass.
The photon as a particle cannot be a wave since its extremities cannot be determines as with a particle.

If a photon has no mass it cannot have spin which is reliant on Newtons laws
which requires a circular force around a central point of mass itself.
Since it is now proven that Neutrinos do have mass as a particle in the last few years the massless state of a photon must come under question.
So why procede into dividing particles into those with mass and those without mass when all can agree that they are indeed particles which may or may not change its constituents at some time and at some place that cannot be determined where as the particle from the sun named Neutrinos is accepted as a particle with mass and that has a presence here on Earth?
Because this is a known fact I prefer at this time not to challenge in favor of a theory. That is my logic which I pursue which is a plausable explanation of levitation in use and visible in industry around the World and has the mathematical authenticity of Maxwell laws
Best regards
So is it not better

269. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 17:11:09 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <185462a4-3973-476e-ae73-6f56cc209358@40g2000prx.googlegroups.com>
Source record: 18442

```
On Jan 11, 8:40 am, "Dave" <no...@nowhere.com> wrote:
>   "Richard Fry" <r...@adams.net> wrote in
messagenews:d9e86843-7932-43f6-89e6-0072225f0b2a@s9g2000prm.googlegroups.com...
>   On Jan 10, 6:59 pm, Art Unwin wrote:
>
>   > I gave the reasons for my line of thinking having gone thru the
>   > routine of reading and accepting what the books say. You
>   > spurned my statement giving no reason why it should not be
>   > accepted.
>
>   Not so, Art.
>
>   The simplest reason that you should abandon your line of thinking
>   about there being no current reflection from the unterminated end
>   along the outside of all radiators is that such beliefs were proven
>   invalid by the measured results of Gihring and Brown over 70 years ago
>   -- as shown in the excerpt of their IRE paper which has been linked to
>   twice, now.
>
>   RF
>
> the more it gets quoted the more he will consider it lemming talk and reject
> it.  art is in his own little world now, full of magical levitating
> diamagnetic neutrinos and burrowing anti-eddy currents up the middle of
> conductors... of course, where those currents go when they reach the
> feedpoint would be an interesting thing to hear, maybe art can comment on
> that for a while... they probably just jump up to the surface again and go
> around in circles.

Pull your dress down your slip is showing
```

270. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 17:28:58 UTC
From: Dave <noone@nowhere.com>
Message-ID: <u%pal.5132$BC4.2755@nwrddc02.gnilink.net>
Source record: 18444

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:185462a4-3973-476e-ae73-6f56cc209358@40g2000prx.googlegroups.com...
On Jan 11, 8:40 am, "Dave" <no...@nowhere.com> wrote:
> "Richard Fry" <r...@adams.net> wrote in
messagenews:d9e86843-7932-43f6-89e6-0072225f0b2a@s9g2000prm.googlegroups.com...
> On Jan 10, 6:59 pm, Art Unwin wrote:
>
> > I gave the reasons for my line of thinking having gone thru the
> > routine of reading and accepting what the books say. You
> > spurned my statement giving no reason why it should not be
> > accepted.
>
> Not so, Art.
>
> The simplest reason that you should abandon your line of thinking
> about there being no current reflection from the unterminated end
> along the outside of all radiators is that such beliefs were proven
> invalid by the measured results of Gihring and Brown over 70 years ago
> -- as shown in the excerpt of their IRE paper which has been linked to
> twice, now.
>
> RF
>
> the more it gets quoted the more he will consider it lemming talk and
reject
> it. art is in his own little world now, full of magical levitating
> diamagnetic neutrinos and burrowing anti-eddy currents up the middle of
> conductors... of course, where those currents go when they reach the
> feedpoint would be an interesting thing to hear, maybe art can comment
on
> that for a while... they probably just jump up to the surface again and
go
> around in circles.

Pull your dress down your slip is showing

so you can't even come up with another technical comeback? just got to
stoop all the way down to a cheap personal attack. I guess this thread is
over then since you have run out of fun things to say.

271. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 18:10:39 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5b03a370-7476-481b-93b7-95feb50f1b3a@p36g2000prp.googlegroups.com>
Source record: 18445

```
On Jan 11, 11:28 am, "Dave" <no...@nowhere.com> wrote:
>   "Art Unwin" <ArthurUn...@gmail.com> wrote in
messagenews:185462a4-3973-476e-ae73-6f56cc209358@40g2000prx.googlegroups.com...
>   On Jan 11, 8:40 am, "Dave" <no...@nowhere.com> wrote:
>   > "Richard Fry" <r...@adams.net> wrote in
> messagenews:d9e86843-7932-43f6-89e6-0072225f0b2a@s9g2000prm.googlegroups.com...
>   > On Jan 10, 6:59 pm, Art Unwin wrote:
>   >
>   > > I gave the reasons for my line of thinking having gone thru the
>   > > routine of reading and accepting what the books say. You
>   > > spurned my statement giving no reason why it should not be
>   > > accepted.
>   >
>   > Not so, Art.
>   >
>   > The simplest reason that you should abandon your line of thinking
>   > about there being no current reflection from the unterminated end
>   > along the outside of all radiators is that such beliefs were proven
>   > invalid by the measured results of Gihring and Brown over 70 years ago
>   > -- as shown in the excerpt of their IRE paper which has been linked to
>   > twice, now.
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>   > the more it gets quoted the more he will consider it lemming talk and
> reject
>   > it. art is in his own little world now, full of magical levitating
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>   > feedpoint would be an interesting thing to hear, maybe art can comment
> on
>   > that for a while... they probably just jump up to the surface again and
> go
>   > around in circles.
>
>   Pull your dress down your slip is showing
>
> so you can't even come up with another technical comeback?  just got to
> stoop all the way down to a cheap personal attack.  I guess this thread is
> over then since you have run out of fun things to say.

Nope
You have the solution in your own hands where you have total control
if you are able to use a antenna computer program.Many on this group
```

have an aversion to computers and thus rely on other means which puts control
in book authors. If you have a similar aversion thats O.K.
For those who can use a computer they can determine for themselves if antenna programs can be trusted or not. The exercise is totally in their hands where they can manipulate the rules in any way
when using these programs. If it works out that this group cannot cope with computers then the solution will not surface and thus reliance of the truth resides some where else and not in their hands.
Simple, simple simple
Art

272. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 18:12:54 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <007ec5c1-2465-4a8e-a2e6-5ccfd678ac39@f40g2000pri.googlegroups.com>
Source record: 18446

On Jan 11, 10:37 am, Art Unwin wrote:
> Thus the question is reduced from these other aproaches by asking the
> question, why do antenna programs agree that a vertical antenna must
> be tilted for best results?

What antenna programs are you describing, and for what parameters do
you think they show this?

Instead of stating your claim about "tilt" and then trying to coerce
others to prove you are wrong, why not take the initiative to try to
prove you are right?

RF

273. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 18:22:18 UTC
From: Dave <noone@nowhere.com>
Message-ID: <uNqal.5142$BC4.720@nwrddc02.gnilink.net>
Source record: 18447

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:5b03a370-7476-481b-93b7-95feb50f1b3a@p36g2000prp.googlegroups.com...

>Nope
>You have the solution in your own hands where you have total control
>if you are able to use a antenna computer program.Many on this group
>have an aversion to computers and thus rely on other means which puts
>control
>in book authors. If you have a similar aversion thats O.K.

yeah, right... i am an author, and i also use computers, where does that put me? EVERYONE on this group must use a computer... kind of hard to use newsgroups like this without a computer.

>For those who can use a computer they can determine for themselves if
>antenna programs can be trusted or not.

no they can't... not unless they have a sophisticated test setup to do fill size models and measurements to compare predicted with actual results. YOU don't even have that art, so how can you be so sure that the programs are doing what you think they are doing?

274. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 18:50:48 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8fba0cf9-9c75-40ac-82c9-f0a29979ba2a@r10g2000prf.googlegroups.com>
Source record: 18448

On Jan 11, 12:12 pm, Richard Fry <r...@adams.net> wrote:
> On Jan 11, 10:37 am, Art Unwin wrote:
>
> > > Thus the question is reduced from these other aproaches by asking the
> > > question, why do antenna programs agree that a vertical antenna must
> > > be tilted for best results?
>
> What antenna programs are you describing, and for what parameters do
> you think they show this?
>
> Instead of stating your claim about "tilt" and then trying to coerce
> others to prove you are wrong, why not take the initiative to try to
> prove you are right?
>
> RF

I could do that but you will only accept what you yourself can prove
by your own means.
I said I would provide what you are asking for so you have control of
the solution i.e
my solution is or is not the same as your own
What you are proposing is nothing more than a way out to prevent a
solution
If you cannot operate a computer then that aproach has no standing
with you or myself
So now we are back to a word war on facts which are indeterminate.
When you do it for yourself you can voutch for all steps taken by you
that proves your point.
Self reliance instead of default

275. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:03:22 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d861fff3-dd05-472c-a296-c66bfac0dd21@i24g2000prf.googlegroups.com>
Source record: 18449

```
On Jan 11, 11:28 am, "Dave" <no...@nowhere.com> wrote:
>   "Art Unwin" <ArthurUn...@gmail.com> wrote in
messagenews:185462a4-3973-476e-ae73-6f56cc209358@40g2000prx.googlegroups.com...
>   On Jan 11, 8:40 am, "Dave" <no...@nowhere.com> wrote:
>   > "Richard Fry" <r...@adams.net> wrote in
> messagenews:d9e86843-7932-43f6-89e6-0072225f0b2a@s9g2000prm.googlegroups.com...
>   > On Jan 10, 6:59 pm, Art Unwin wrote:
>   >
>   > > I gave the reasons for my line of thinking having gone thru the
>   > > routine of reading and accepting what the books say. You
>   > > spurned my statement giving no reason why it should not be
>   > > accepted.
>   >
>   > Not so, Art.
>   >
>   > The simplest reason that you should abandon your line of thinking
>   > about there being no current reflection from the unterminated end
>   > along the outside of all radiators is that such beliefs were proven
>   > invalid by the measured results of Gihring and Brown over 70 years ago
>   > -- as shown in the excerpt of their IRE paper which has been linked to
>   > twice, now.
>   >
>   > RF
>   >
>   > the more it gets quoted the more he will consider it lemming talk and
> reject
>   > it. art is in his own little world now, full of magical levitating
>   > diamagnetic neutrinos and burrowing anti-eddy currents up the middle of
>   > conductors... of course, where those currents go when they reach the
>   > feedpoint would be an interesting thing to hear, maybe art can comment
> on
>   > that for a while... they probably just jump up to the surface again and
> go
>   > around in circles.
>
>   Pull your dress down your slip is showing
>
> so you can't even come up with another technical comeback?  just got to
> stoop all the way down to a cheap personal attack.  I guess this thread is
> over then since you have run out of fun things to say.

No,No,Noi There is no evidence that you have a yearning for the
backsides of man
it is just a play on words which point to your error in thinking. ala
```

the slip. Get it?
I have made no attempt to hide my thinking with a torrent of words
under the guise of shakespeare
to provide cover
I provided a single liner. No more, no less

276. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:06:42 UTC
From: nm5k@wt.net
Message-ID: <8cec334e-dec9-465c-854a-6dafeb654578@i18g2000prf.googlegroups.com>
Source record: 18450

On Jan 11, 8:59 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Ed Cregger wrote:
> > I have an LDG 1:1 200 watt
> > balun that will tune my Van Gordon All Bander from one end to the other of
> > the HF spectrum, using just the internal tuner of my Yaesu FT-890AT. Go
> > figure.
>
> If this is the 80m dipole with 100' of ladder-line, one
> can look at my notuner all-band-HF antenna to see why
> 100' is a good fixed length for the ladder-line. 100'
> is near a current maximum point (loop) on all HF bands.
> If one varies the length of the ladder-line from 90' to
> 115', one doesn't even need a tuner and a 1:1 current-
> balun-choke is ideal.
>
> http://www.w5dxp.com/pnts130.gif
>
> > To my way of thinking (which is probably incorrect), using the 4:1 balun
> > would broaden the impedances that I could match versus the 1:1 balun. What
> > you are saying is just the opposite. Please elaborate. I will be most
> > grateful.
>
> A 4:1 balun is a very good transformer over a narrow range.
> Most are voltage baluns that do not balance currents and
> therefore do little to discourage common-mode currents. Test
> a balun looking into 2000+j2000 and see what happens. One
> of my 4:1 baluns got so hot I couldn't touch the case. The
> best balun design, IMO, is one where flux in the ferrite
> is caused only by common-mode current and not by
> differential-mode current.
>
> Here's some useful information:
>
> http://www.dxengineering.com/TechArticles.asp?ID={3E5220F7-2D0F-45B5-85F7-3B654F804C4F}
> --
> 73, Cecil http://www.w5dxp.com

The 4:1 balun in the 989c is not a voltage balun. It's fairly
hefty current balun wound on a big toroid.
I've used the same one when I'm using mine for ladder line.
I got my 989c free because of heat damage. But it was
fried coil forms, rather than the balun.
I tediously repaired the coil, and have been using it ever
since. The coil in it is actually the second one.

The guy burned up two of them, and finally decided
to buy a big Nye Viking, and gave me the 989c as
junk trash.
But he abused the tuner by trying to run a 1/2 size
dipole on 75m, and also running a 8877.. :/
Not a good idea when using a T network tuner..
I guess the Nye Viking was a bit stouter, as I
don't recall him killing it. But I bet even it got a
bit toasty at times. :(
Anyway, being he never managed to kill one of
the baluns with his torture tests, I imagine they
are fairly stout. It is a "3 KW" tuner.. wink,wink.. :/

277. Re: Stop Israeli terrorism against Palestine’s children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:16:10 UTC
From: mopeyzakween@yahoo.com
Message-ID: <86fd5d63-1908-4347-8843-ae503e60b1db@v5g2000prm.googlegroups.com>
Source record: 18301

On Jan 11, 6:33 am, tzitzikas <tzitzikas.3afd...@radiobanter.com>
wrote:
> asd;662958 Wrote:
>
> > See the Zionist terrorism against Palestine’s children
>
> >http://www.slide.com/r/Cr-oz5Wx5D_4b_n7quhfYQ_7CoJPFnUM?
>
> israel kills inoccent people. many of them are childrens and womens.
> Greek citizens support Palestine’s people!
>
> --
> tzitzikas

yeah, those poor innocent assholes who wont kick out the rocket firing
terrorists...hah

278. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:20:24 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <f89a555f-48ab-4564-a8ce-3bacbefdf999@i20g2000prf.googlegroups.com>
Source record: 18302

On Jan 11, 12:50 pm, Art Unwin wrote:

> I could do that but you will only accept what you yourself can
> prove by your own means.

No, I accept the work of Kraus, Terman, Balanis etc and the
experimental work of George Brown et al as they have written and
proven it.

The undocumented statements of Art Unwin I do not.

But for your edification, Art, below is a link to what NEC shows for a
full-wave, base-fed vertical monopole over a perfect ground plane.

Note that it has zero gain in the horizontal plane, and about 6.7 dBi
gain at an elevation angle of 37 degrees. So yes, tilting the
radiator would increase gain in the horizontal plane, by varying
amounts depending on azimuth (two azimuths would still be zero)..

Is this the basis for your claim? If so, why would anyone install
such a thing, as more than that peak gain in the horizontal plane is
supplied by a cheaper, shorter VERTICAL monopole of about 0.6
wavelengths.

If this model is not what you have in mind then please completely
define your radiator (including how it is fed and its relation to the
ground plane), and your meaning of "best results" due to tilting it.

http://i62.photobucket.com/albums/h85/rfry-100/Full-WaveVerticalMonopole.gif

RF

279. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:24:21 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c3a54095-b940-4b5c-bcf2-35928f77962e@g3g2000pre.googlegroups.com>
Source record: 18303

On Jan 11, 12:22 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:5b03a370-7476-481b-93b7-95feb50f1b3a@p36g2000prp.googlegroups.com...
>
> >Nope
> >You have the solution in your own hands where you have total control
> >if you are able to use a antenna computer program.Many on this group
> >have an aversion to computers and thus rely on other means which puts
> >control
> >in book authors. If you have a similar aversion thats O.K.
>
> yeah, right... i am an author, and i also use computers, where does that put
> me? EVERYONE on this group must use a computer... kind of hard to use
> newsgroups like this without a computer.
>
> >For those who can use a computer they can determine for themselves if
> >antenna programs can be trusted or not.
>
> no they can't... not unless they have a sophisticated test setup to do fill
> size models and measurements to compare predicted with actual results. YOU
> don't even have that art, so how can you be so sure that the programs are
> doing what you think they are doing?

Very good. But Richard Harrison does not have a computer thus he
relies on books.
I'd venture to say that many have books as well as computers but have
not used the canned antenna programs. After all cobol, basic, extra
basic, fortran e.t.c are outside of their sphere!
With that aside your answer questions the veracity of antenna computer
programs
in the hands of the average ham. That may or may not be true
But the members of this group percieve themselves as experts with
respect to antennas and I have no doubt that all will arrive at the
correct answer individually and that includes yourself
As for being sure of the result obtained no one can arrive at the
correctness unless they themselves revert to first principles to
determine the confines of what is acceptable.
On the other hand one can rely on the fact that the approximations
provided by computers aligns with your own experiences. Either way to
find the solution is totally in your hands, your own choice
in how to determine the veracity of antenna computer programs without
placing trust in unknowing
hands.

Is that clear and technical enough for you or has your descision on
antenna programs already been made and irreversable?
Art

280. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:28:58 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <496a4877$0$843$4fafbaef@reader5.news.tin.it>
Source record: 18304

> I see the center pin on a typical N connector is pretty small
>
> How much power could it hold at HF and also uhf/vhf
> frequencies? Assuming a modern day high quality N connector??

The power handling capability of a connector is determined by both its voltage limit and its current limit, whichever of the two is more constraining.

The N connector voltage limit is usually stated to be 500V (peak), corresponding to an RF power of 2,500W over 50-Ohm impedance. Please note that the 500V limit applies to the extreme environmental and conditions (e.g. temperature, humidity) so, for a normal usage, the connector would well withstand more than 500V.

Conversely, I was never able to find a specification for the N connector current limit. This will actually depend on the usage conditions, i.e. whether a round.the-clock broadcast service, or an intermittent amateur service. With a power of 2,500W, the rms current through the connector would be about 7A (at 50 Ohm), a value that, given the size of the inner pin, I would consider well tolerable for amateur service. For a broadcast service instead it would perhaps be safe not to exceed 1,000W at VHF, or somewhat less at UHF.

> The other thing i pondered is that it seems the don't make
> Pl259/so239 connectors for hardline, so what do guys use typically for
> higher power DIN?

The PL259 connectors are low-cost connectors that are simply unknown in the professional world. Main reasons are:
- they do not offer a controlled impedance across the connector length
- they are not sealed, and hence offering no protection against humidity
- the ground connection is unsafe. If the connector does not remain well tigthened under all operational conditions, one can never be sure on the continuity of the ground path.

For hardlines there is a good choice of connectors, see
http://www.surplussales.com/connectors /HardLConnIndex.html

73

Tony I0JX

281. Baluns - To twist or not to twist the trifilar winding

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:31:33 UTC
From: Richard Ferryman <richardferryman@btinternet.com>
Message-ID: <KIWdnS8fu5iK1PfUnZ2dneKdnZydnZ2d@bt.com>
Source record: 18305

I am in the process of making a 1:1 balun for QRP use and this has made me think! I have seen many balun designs and construction articles. A fair proportion of theses advocate twisting the wires before winding on a toroid core. I have never seen a clear explanation as to why they are twisted. Does it improve the balance? Does it affect the coupling? Is it better to twist or not to twist - that is the question.
Dick G4BBH

282. Re: N power connector rating? [Hardline Connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 19:59:10 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <kcsal.16781$ln7.1196@newsfe04.iad>
Source record: 18306

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:e13daa31-3c18-4e17-8561-353608c7ef5d@w39g2000prb.googlegroups.com...

"What I use on 7/8 hardline is a copper reducer with a barrel connecter soldered into one end and then I screw the combination over the hard line. Now you have an output from the hardline that can fit most things . One time I filled the copper reducer with dielectric before I inserted the barrel connecter but could see no difference using max power. Certainly a lot cheaper than Andrews connectors and if the coax route is not ideal it is easy and inexpensive to add flexible lengths at tight corners, such as emerging from underground piping. Hardline gets extremely rigid and the outer insulation is subject to cracking in the winter time which is when I seem to have to work on things."

Just remember that the aluminum to copper galvanic couple promotes the corrosion of the aluminum. Keep the contact areas as dry as possible if you don't want problems. I have found that wrapping several layers of tightly stretched vinyl electrical tape and then spraying the area with clear Kryloni¿½ acrylic varnish does a reasonable job. But since water vapor can diffuse through the tape, you will need to check the connection periodically.

73, Dr. Barry L. Ornitz WA4VZQ

283. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 20:03:10 UTC
From: Dave <noone@nowhere.com>
Message-ID: <2gsal.5948$Es4.3133@nwrddc01.gnilink.net>
Source record: 18307

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:c3a54095-b940-4b5c-bcf2-35928f77962e@g3g2000pre.googlegroups.com...
On Jan 11, 12:22 pm, "Dave" <no...@nowhere.com> wrote:
>Very good. But Richard Harrison does not have a computer thus he
>relies on books.

he sure posts a lot for someone who doesn't have a computer!

>I'd venture to say that many have books as well as computers but have
>not used the canned antenna programs. After all cobol, basic, extra
>basic, fortran e.t.c are outside of their sphere!

so which language have you written your program in?

>With that aside your answer questions the veracity of antenna computer
>programs in the hands of the average ham.

no, i question the use of it by those who have no idea what is a reasonable
answer. such as yourself.

>Is that clear and technical enough for you or has your descision on
>antenna programs already been made and irreversable?

you said nothing that was useful or technical. and the only irreversible
decision I have made is that you are full of bull... sometimes entertaining,
but still full of bull. now come on, we need something new and wild, like
how about your magical levitating diamagnetic neutrinos somehow morphing
into photons when they get levitated by the faraday anti-eddy currents in
the diamagnetic antenna element?? but then again you have never addressed
how my ferromagnetic elements work without any of your magical neutrinos
sitting on them.

284. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 20:21:19 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <1usal.2549$Ex.2158@bignews8.bellsouth.net>
Source record: 18308

<nm5k@wt.net> wrote in message
news:8cec334e-dec9-465c-854a-6dafeb654578@i18g2000prf.googlegroups.com...
On Jan 11, 8:59 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Ed Cregger wrote:
> > I have an LDG 1:1 200 watt
> > balun that will tune my Van Gordon All Bander from one end to the other
> > of
> > the HF spectrum, using just the internal tuner of my Yaesu FT-890AT. Go
> > figure.
>
> If this is the 80m dipole with 100' of ladder-line, one
> can look at my notuner all-band-HF antenna to see why
> 100' is a good fixed length for the ladder-line. 100'
> is near a current maximum point (loop) on all HF bands.
> If one varies the length of the ladder-line from 90' to
> 115', one doesn't even need a tuner and a 1:1 current-
> balun-choke is ideal.
>
> http://www.w5dxp.com/pnts130.gif
>
> > To my way of thinking (which is probably incorrect), using the 4:1 balun
> > would broaden the impedances that I could match versus the 1:1 balun.
> > What
> > you are saying is just the opposite. Please elaborate. I will be most
> > grateful.
>
> A 4:1 balun is a very good transformer over a narrow range.
> Most are voltage baluns that do not balance currents and
> therefore do little to discourage common-mode currents. Test
> a balun looking into 2000+j2000 and see what happens. One
> of my 4:1 baluns got so hot I couldn't touch the case. The
> best balun design, IMO, is one where flux in the ferrite
> is caused only by common-mode current and not by
> differential-mode current.
>
> Here's some useful information:
>
> http://www.dxengineering.com/TechArticles.asp?ID={3E5220F7-2D0F-45B5-85F7-3B654F804C4F}
> --
> 73, Cecil http://www.w5dxp.com

The 4:1 balun in the 989c is not a voltage balun. It's fairly
hefty current balun wound on a big toroid.
I've used the same one when I'm using mine for ladder line.

I got my 989c free because of heat damage. But it was
fried coil forms, rather than the balun.
I tediously repaired the coil, and have been using it ever
since. The coil in it is actually the second one.
The guy burned up two of them, and finally decided
to buy a big Nye Viking, and gave me the 989c as
junk trash.
But he abused the tuner by trying to run a 1/2 size
dipole on 75m, and also running a 8877.. :/
Not a good idea when using a T network tuner..
I guess the Nye Viking was a bit stouter, as I
don't recall him killing it. But I bet even it got a
bit toasty at times. :(
Anyway, being he never managed to kill one of
the baluns with his torture tests, I imagine they
are fairly stout. It is a "3 KW" tuner.. wink,wink.. :/

Yeah, it's a 3kw tuner when the SWR is 1:1. Lots of folks don't understand that at all.

I don't mean to sound like a smart ass, but all of the techno-babble (which I too have memorized) such as current balun - voltage balun - blah-blah-blah, does not help me do what I am trying to do. I've read all of that a thousand times at least, memorized it, passed tests on the fundamentals, etc. It doesn't apply directly in this instance.

I'm looking for a way to multiply the range of impedances that can be matched.

Yeah, I know. This is not in the handbooks, but it is what I'm trying to do. And, it has been done with the MFJ-989C balun, so I know that it CAN be done.

Don't believe me? Operate the 989C direct from a coaxial output into an external balun and then run it through the wire output which has the alleged 4:1 balun in line. The difference in the loads that can be matched is astounding.

Problem is, I can no longer enjoyably tune the MFJ-989C due to arthritis. I am looking for a balun that will multiply the impedances that can be matched so that I can use my MFJ and LDG high power autotuners. The stock baluns I have used do not provide this ability with these autotuners. Nor can they be equalled using the MFJ-989C straight thru, without the internal balun in line. Pardon me if I'm repeating myself. Need sleep.

What doesn't help is that I'm only using about half of the 100' of 450 ohm twinlead feedline that came with my Van Gordon All Bander. I just have no other way to lengthen it, so I'm stuck using almost fifty feet of the twinlead. I'm sure this compounds the problems that I am having.

On top of all of that, I want to be able to run about 600 watts output from my amplifiers (one upstairs/one downstairs). Any thoughts/ideas would be appreciated. I have thought of going with a fan dipole, but that will reduce my operating bands by nearly one half.

Ed, N2ECW

285. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 21:05:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <10846b50-217a-4aa6-9bb9-79b2f9ebab69@g1g2000pra.googlegroups.com>
Source record: 18309

On Jan 11, 1:20 pm, Richard Fry <r...@adams.net> wrote:
> On Jan 11, 12:50 pm, Art Unwin wrote:
>
> > I could do that but you will only accept what you yourself can
> > prove by your own means.
>
> No, I accept the work of Kraus, Terman, Balanis etc and the
> experimental work of George Brown et al as they have written and
> proven it.
>
> The undocumented statements of Art Unwin I do not.

I fully understand that.But curiousity surely must creep in if there
is a suggestion that the antenna programs do not agree totally with
the books by straying towards tilted radiators. Which is correct one
might ask!

>
> But for your edification, Art, below is a link to what NEC shows for a
> full-wave, base-fed vertical monopole over a perfect ground plane.

Very good, you do have a vestige of curiousity

>
> Note that it has zero gain in the horizontal plane, and about 6.7 dBi
> gain at an elevation angle of 37 degrees. So yes, tilting the
> radiator would increase gain in the horizontal plane, by varying
> amounts depending on azimuth (two azimuths would still be zero)..

Well that is one way of looking at it which is probably why in some
instances they changed to sloping dipoles. to enhance the polarity
that was required

>
> Is this the basis for your claim? If so, why would anyone install
> such a thing, as more than that peak gain in the horizontal plane is
> supplied by a cheaper, shorter VERTICAL monopole of about 0.6
> wavelengths.

Not totally but it is a variation to what the books state so my
curiousity questions why
I would opt for a vertical radiator that does not rely on the ground
to provide an answer.
Always remove the maximum variables before determining the truth

>
> If this model is not what you have in mind then please completely

> define your radiator (including how it is fed and its relation to the
> ground plane), and your meaning of "best results" due to tilting it.

Members of the group oppose the idea of sloping antennas but without
reason
It is certainly a good place to start. To me best results is
determined by your needs whether it is total gain, polarity or what
have you. As I stated aproach the proof in your own way with out
interference from others. If you feel that a tilted antenna provides
more gain than a vertical antenna
then you have the solution. From what you are saying you are aiming
either for maximum gain regardless of polarity OR since you are using
a vertical antenna your desires are for maximum vetical polarity. But
that is my interpretation because you did not state yours.
Note Kraus stated a case where the angle of the radiator is best at
about 14 degrees and you trust him

>
> http://i62.photobucket.com/albums/h85/rfry-100/Full-WaveVerticalMonop...

The graph seems o.k. depending on what your desire was. What ever your
desire is you can tilt things while keeping the radiator resonant to
determine the finality of the debate. The ground is perfect right? Let
me know what your desires are for this antenna so I may repeat all the
motions you undertake. Obviously you are on your own and by use of the
computer program you have a modicom of trust in them, which is
encouraging.
You are now on your way but apparently ....alone !
Onward, Onward and now allow the lemmings to follow you

>
> RF

286. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 21:24:02 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2ad1ce14-1649-4e3f-9bb4-afcee42f13ce@z6g2000pre.googlegroups.com>
Source record: 18310

On Jan 11, 2:03 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:c3a54095-b940-4b5c-bcf2-35928f77962e@g3g2000pre.googlegroups.com...
> On Jan 11, 12:22 pm, "Dave" <no...@nowhere.com> wrote:
>
> >Very good. But Richard Harrison does not have a computer thus he
> >relies on books.
>
> he sure posts a lot for someone who doesn't have a computer!
>
> >I'd venture to say that many have books as well as computers but have
> >not used the canned antenna programs. After all cobol, basic, extra
> >basic, fortran e.t.c are outside of their sphere!
>
> so which language have you written your program in?
>
> >With that aside your answer questions the veracity of antenna computer
> >programs in the hands of the average ham.
>
> no, i question the use of it by those who have no idea what is a reasonable
> answer. such as yourself.
>
> >Is that clear and technical enough for you or has your descision on
> >antenna programs already been made and irreversable?
>
> you said nothing that was useful or technical. and the only irreversible
> decision I have made is that you are full of bull... sometimes entertaining,
> but still full of bull. now come on, we need something new and wild, like
> how about your magical levitating diamagnetic neutrinos somehow morphing
> into photons when they get levitated by the faraday anti-eddy currents in
> the diamagnetic antenna element?? but then again you have never addressed
> how my ferromagnetic elements work without any of your magical neutrinos
> sitting on them.

Ferro magnetic is just a word but salvagers use the difference
compared to diamagnetic when sorting materials. The diagmagnetic
material levitate higher and in a different direction to
ferromagnetic. The same difference is also used to sort dielectric and
other materials
To understand the implications of this standard operation do the
research in your books or in the
net. You have total control on the subject. Same goes for anti eddy
currents what ever they are.

David while you sit on your arse doing nothing but talk you now have a person
who has got off his duff to provide for your angst for technical matter thus widening your sphere of critisism. Sit back and carry on with your drinking and contemplate what is about to come and how it could then effect arrays so you become ahead of all in your wisdom.

Art

287. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 21:31:00 UTC
From: richardharrison@webtv.net
Message-ID: <28978-496A6514-3320@storefull-3171.bay.webtv.net>
Source record: 18312

Art wrote:
"Input a vertical full wave antenna at various angles in a resonant form
and sere what angle is best."

Better yet, just open "Electronics and Radio Engineering by F.E. Terman,
the 1955 edition to page 867. Examine Fig. 23-3 and Fig. 23-4.
Notice that fullwave antenna has 4 lobes almost equally spaced around
its center. That places them at quite an angle as compared with the
lobes of a halfwave antenna. The fullwave pattern results from phase
reversal at the halfwave point,

The fullwave antenna`s pattern is usually something to be put up with
when operating a halfwave antenna at its second harmonic. The resulting
pattern is usually considered undesirable. I wouldn`t tilt a tower by 44
or 45 degrees to make one of its lobes parallel with the earth.

Best regards, Richard Harrison, KB6WZI

288. Re: Stop Israeli terrorism against Palestine’s children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 21:42:34 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <cecc5957-f8e1-41fe-b139-9a4212479bde@p23g2000prp.googlegroups.com>
Source record: 18311

On Jan 11, 5:33 am, tzitzikas <tzitzikas.3afd...@radiobanter.com>
wrote:
> asd;662958 Wrote:
>
> > See the Zionist terrorism against Palestine’s children
>
> >http://www.slide.com/r/Cr-oz5Wx5D_4b_n7quhfYQ_7CoJPFnUM?
>
> israel kills inoccent people. many of them are childrens and womens.
> Greek citizens support Palestine’s people!
>
> --
> tzitzikas

When Obama moves in everything is subject to change, that is why war
action is being taken now because Bush is in a frigid mode about the
deployment
of American ammunition.
Obama ran on change so we will have to wait and see if he signs the 2
Billion cheque to Israel
without conditions before the month of February has passed. Israel
cannot exist without America
thus a new leash if applied will have meaning this time Israel wants
the money up front instead of being spread out over the year the goal
being interest money goes to Israel and out of American hands. That is
a whole lot of money at this time
Art

289. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 21:47:21 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <dbdc5599-b72b-4902-8b15-c3f7a0f20233@g1g2000pra.googlegroups.com>
Source record: 18313

On Jan 11, 3:05 pm, Art Unwin wrote:
> Members of the group oppose the idea of sloping antennas but without
> reason. It is certainly a good place to start. To me best results is
> determined by your needs whether it is total gain, polarity...

You mean polarization, no doubt, which is not the same as polarity.

> Note Kraus stated a case where the angle of the radiator is best at
> about 14 degrees and you trust him.

Please provide a verifiable reference to this in anything Kraus wrote.

> The graph seems o.k. depending on what your desire was. What ever your
> desire is you can tilt things while keeping the radiator resonant to
> determine the finality of the debate.

N.B., Art, that...

(1) a monopole radiator does not need to be SELF resonant to be
intrinsically efficient. Fractional wavelength, vertical monopoles as
short as 45 degrees radiate nearly as efficiently as longer ones that
are self-resonant, as long each is Z-matched to the source driving
them.

(2) a vertical monopole of 0.625 wavelengths and less generates its
maximum relative field in the horizontal plane, regardless of the
ground conditions it has.

> ... by use of the computer program you have a modicom of trust
> in them, which is encouraging.

More than a modicum. See the examples on my website http://rfry.org
for examples of my NEC studies going back many years.

RF

290. Re: Stop Israeli terrorism against Palestine’s children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 22:04:45 UTC
From: Michael <micoder@sbcglobal.net>
Message-ID: <02ual.96494$mm.49326@fe02.news.easynews.com>
Source record: 18314

How does this relate to antennas? I could not find any pictures of
antennas at this web site?????? There were not even any design tips.
What gives? I think you have the wrong newsgroup.

asd wrote:
> See the Zionist terrorism against Palestineï¿½s children
>
> http://www.slide.com/r/Cr-oz5Wx5D_4b_n7quhfYQ_7CoJPFnUM?
>

291. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 22:20:59 UTC
From: richardharrison@webtv.net
Message-ID: <28978-496A70CB-3332@storefull-3171.bay.webtv.net>
Source record: 18315

Art wrote:
"Members of this group oppose the idea of sloping antennas but without reason."

A sloper is neither vertical nor horizontal. A horizontal discriminates against groundwave propagated noise sources when receiving. A vertical discriminates against wasting transmited energy toward the zenith and at high angles over the horizon. For locations near the antenna, groundwave propagation is usually preferred. Check page 803 of Terman`s 1955 opus:
"The groundwave is vertically polarized, because any horizontal component of the electric field in contact with the earth is short-circuited by the earth."

Best regards, Richard Harrison, KB5WZI

292. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 22:39:43 UTC
From: richardharrison@webtv.net
Message-ID: <28979-496A752F-1075@storefull-3171.bay.webtv.net>
Source record: 18316

Art wrote:
"But Richard Harrison does not have a computer thus he relies on books."

Richard relies on books because it is more effective and efficient than experiencing everything for himself.

Best regards, Richard Harrison, KB5WZI

293. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 22:54:26 UTC
From: jimlux@earthlink.net
Message-ID: <58fb8e56-a3a7-4fd0-a5b1-e07da3fa6af5@b38g2000prf.googlegroups.com>
Source record: 18317

Modern dielectric oil (aka transformer oil) is refined mineral oil
with an antioxidant (tocopherol, BHA, or BHT) added to retard
spoiling.

Shell Diala AX
ExxonMobil Univolt 65

are the two major kinds (there's one from Castrol,too)

Both are sold (in 5 gallon pails, typically, as a minimum quantity) by
"jobbers" which can be found on the mfr's website (you enter a zip
code and gives you the distributors within X miles), or by looking in
the yellow pages under Oil,Lubricants-Jobbers. Used to be in the $4-5/
gallon range, but I just was talking to someone who had to pay around
$50 for a 5gallon pail. (probably a hangover from $100/bbl crude
prices)

You *can* use USP White Mineral Oil (laxative) available in pints at
the drugstore, gallons at the feedstore (If you've got a colicky
horse, gallons are the quantity wanted), but it's
a) more expensive
b) not water content controlled

For HV dielectric purposes water content (in the ppm range) is
important. So is particulate contamination. For a dummy load,
probably not so much.

Another inexpensive source of mineral oil without many additives is
hydraulic oil (as used in, say, tractors, etc.).

Even "straight weight" motor oil without additives/detergents can work
(look for the SAE 10,15, or 20 viscosities).. it can be VERY cheap on
sale as a "loss leader" to get folks into the store (since nobody in
their right mind would actually run this in an engine)

For a dummy load, viscosity IS important, because convective flow is
important. (viscosity change with temperature, too...)

Silicone would be massive overkill, and we won't even get into
Fluorinert. BTW, if you spill mineral oil, it cleans up nicely with
detergent and water.. the same cannot be said of silicone or FC-xx..
Silicone oils are almost impossible to remove.

Jim, w6rmk

294. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 22:57:07 UTC
From: richardharrison@webtv.net
Message-ID: <28978-496A7943-3351@storefull-3171.bay.webtv.net>
Source record: 18318

Cecil Moore wrote:
"Has anyone ever measured a difference between aluminum tubing and a solid rod at the end of an antenna?"

Unnecessary as the inside diameter of the tubing would have to be at least 1/2-wavelength to admit significant RF energy.

Best regards, Richard Harrison, KB5WZI

295. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 23:05:46 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <4d4e368e-ed45-4e3e-a240-cced082b70ec@r41g2000prr.googlegroups.com>
Source record: 18319

On Jan 11, 4:39 pm, Richard Harrison wrote:

> Richard (H) relies on books because it is more effective and efficient
> than experiencing everything for himself.

A good observation.

How many modern research labs repeated the work that led to the fundamental laws of physics in use today before they undertook the design of new systems and products? (Answer = Zero.)

Art Unwin: have you verified for yourself by mathematics and experiment the "first principles" originating with the "masters" you like to refer to here?

If not, why, by your posts do you expect others on r.r.a.a. to have done so?

RF

296. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-11 23:17:56 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ca091211-36c8-4668-939f-c3639c79cafc@w1g2000prk.googlegroups.com>
Source record: 18320

On Jan 11, 5:05 pm, Richard Fry <r...@adams.net> wrote:
> On Jan 11, 4:39 pm, Richard Harrison wrote:
>
> > Richard (H) relies on books because it is more effective and efficient
> > than experiencing everything for himself.
>
> A good observation.
>
> How many modern research labs repeated the work that led to the
> fundamental laws of physics in use today before they undertook the
> design of new systems and products? (Answer = Zero.)
>
> Art Unwin: have you verified for yourself by mathematics and
> experiment the "first principles" originating with the "masters" you
> like to refer to here?
>
> If not, why, by your posts do you expect others on r.r.a.a. to have
> done so?
>
> RF

Oh my you are retreating already! I gave up the mathematical aproach
as you know
in favor of the question are computer programs relistically based on
Maxwells laws
And we are basing what the books say versus what the computer programs
say.
So now we await for somebody else to be the patsy for the group

297. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 00:24:42 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <9d61488f-6f31-4985-b046-a1989e55788c@35g2000pry.googlegroups.com>
Source record: 18321
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Jan 1, 9:49 am, "KC8QJP" <KC8...@yahoo.com> wrote:
> "John Passaneau" <w3...@arrl.net> wrote in message
>
> news:gjimmg$dk5a$1@tr22n12.aset.psu.edu...> KC8QJP wrote:
> >> a crisco can works well
> > > Sometimes you can get empty paint cans at professional paint supplies
> > > stores. They are nice as they are clean and shiny.
>
> > > John W3JXP
>
> Thanks for the tip!

Yes. I did that The new can had a plastic type coating on the inside
to prevent any possible leaks and corrosion, a great improvement over
cans of yesteryear that leaked on to the floor over time. Same story
for the lid., Cost me something like $3 and well worth it.
Art

298. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 00:26:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <H6wal.11142$as4.9191@nlpi069.nbdc.sbc.com>
Source record: 18322

Art Unwin wrote:
> The books state that a photon is a particle without mass.

Photons have no *rest* mass but since they must necessarily
move at the speed of light in a medium, they indeed do have
mass because of their momentum. The mass of a photon is
equal to Planck's constant divided by (the product of the
speed of light times the wavelength), i.e. m=h/(c*lamda).

> The photon as a particle cannot be a wave since its extremities cannot
> be determines as with a particle.

On the contrary, double slit experiments prove that a single
photon can go through both slits and interfere with itself on
the other side. If you design a test to prove a photon is a
wave, it will respond like a wave (even if it is a single photon).
If you design a test to prove a photon is a particle, it will
respond like a particle. The duality is related to the
uncertainty principle.

The main point is that the physical manifestation of RF
electromagnetic fields are clouds of photons. The fields and
the photons are the same thing. Those EM fields have been proven
to be quantized. Photons are the particles that quantize the EM
field.
--
73, Cecil http://www.w5dxp.com

299. Re: N power connector rating? [Hardline Connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 00:52:02 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <cd8b8d1b-b5c1-4566-9869-8482b2285f5f@f40g2000pri.googlegroups.com>
Source record: 18323

On Jan 11, 1:59 pm, "NoSPAM" <unkn...@nospam.org> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:e13daa31-3c18-4e17-8561-353608c7ef5d@w39g2000prb.googlegroups.com...
>
> "What I use on 7/8 hardline is a copper reducer with a barrel connecter
> soldered into one end and then I screw the combination over the hard line.
> Now you have an output from the hardline that can fit most things . One
> time I filled the copper reducer with dielectric before I inserted the
> barrel connecter but could see no difference using max power. Certainly a
> lot cheaper than Andrews connectors and if the coax route is not ideal it
> is easy and inexpensive to add flexible lengths at tight corners, such as
> emerging from underground piping. Hardline gets extremely rigid and the
> outer insulation is subject to cracking in the winter time which is when I
> seem to have to work on things."
>
> Just remember that the aluminum to copper galvanic couple promotes the
> corrosion of the aluminum. Keep the contact areas as dry as possible if
> you don't want problems. I have found that wrapping several layers of
> tightly stretched vinyl electrical tape and then spraying the area with
> clear Krylon® acrylic varnish does a reasonable job. But since water vapor
> can diffuse through the tape, you will need to check the connection
> periodically.
>
>   73, Dr. Barry L. Ornitz WA4VZQ

All true Then copper reducer matched the copper outside of the
Andrews hardline that I use and it made its own thread as I screwed
it on. I don't believe I soldered that end like I did with the barrel
input tho I often apply a liberal spray of acrylic on those sort of
aplications to prevent the inside copper from going green not that I
have seen that sort of evidence The use of this type of connection at
points of sharp turns on the 1/2 acre
available for the tower away from the residence really works out
inexpensive compared to the Andrews connectors when connecting to
short lengths of Andrews 1/2 flexible coax.
When tussling with long heavy hardline in the winter it invariably
crackes or splits the plastic outer covering exposing the corregated
copper sheathing, so if it has to be moved or replaced it is better if
it is without bends of any sort, I have a long stretch in an
underground pipe which is easily removed as it is without kinks.As
far as the tape goes I find that the 3M professional roles become
subject to perishing so I don't use it any more tho I have plenty of
rolls on hand

Regards
Art

300. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 00:59:44 UTC
From: Bob Bob <bob3bob3@suddenlink.net>
Message-ID: <19hq36-6of.ln1@p400bob.personal.cox.net>
Source record: 18324

Without actually researching it I suspect the power handling capacity will be similar to the 1/2" line itself. When a N plug mates with a N socket it presents the same Z as the line with pretty well the same diameters. ie the small pin is not carrying the whole load. The RF losses and subsequent heating will be a function of skin effect of course. How well the pin is soldered will probably also make a small difference. Arcover will be an interesting discussion though as there is an air dielectric where the pieces join..

I guess you could work it out from known resistance of metals, allowing for skin effect and what will happen first, arcing or melting - all at 50 ohms and a bit of ohms law. Lets face it though you can go and look at manufacturers websites for this kind of info.

Hardline of larger diameters than an N connector use DIN connectors or anything else that is "larger". If you are really wanting to know go and have a look at something like the andrew website for data. You can of course also reduce to N size using a suitable fitting.

Cheers Bob VK2YQA

ml wrote:
> hi
>
> Just wondering a few things

301. Re: Baluns - To twist or not to twist the trifilar winding

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 01:05:03 UTC
From: Bob Bob <bob3bob3@suddenlink.net>
Message-ID: <0jhq36-8pf.ln1@p400bob.personal.cox.net>
Source record: 18331

To tell you the truth Dick this is the first time I even thought of this...

My first reaction would be to reduce radiation TX and RX like one does
with CAT5 ethernet cable (aka twisted pair). In a transformer though?

You have asked the right group though, there have been heated balun
discussions here before. One of the contributors wrote a PDF article on
it that may be useful... Sorry I dont have the URL on hand..

I'll wait for an answer....

Cheers Bob VK2YQA

Richard Ferryman wrote:
> I am in the process of making a 1:1 balun for QRP use and this has made me
> think! I have seen many balun designs and construction articles. A fair
> proportion of theses advocate twisting the wires before winding on a toroid
> core. I have never seen a clear explanation as to why they are twisted.
> Does it improve the balance? Does it affect the coupling? Is it better to
> twist or not to twist - that is the question.
> Dick G4BBH
>
>

302. Re: Baluns - To twist or not to twist the trifilar winding

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 01:08:32 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <x5idnU8BzrqOBffUnZ2dnUVZ_sfinZ2d@posted.easystreetonline>
Source record: 18325

Richard Ferryman wrote:
> I am in the process of making a 1:1 balun for QRP use and this has made me
> think! I have seen many balun designs and construction articles. A fair
> proportion of theses advocate twisting the wires before winding on a toroid
> core. I have never seen a clear explanation as to why they are twisted.
> Does it improve the balance? Does it affect the coupling? Is it better to
> twist or not to twist - that is the question.
> Dick G4BBH

You don't want the differential-mode field (primarily between the conductors) to couple to the core. Twisting the conductors together helps prevent this, so that's what I recommend. If you don't twist them, the two conductors of the transmission line should lie together as closely as possible.

The third conductor (you mention trifilar) makes the balun a "voltage" balun, which degrades its performance in antenna transmission line applications. This is explained in the article at http://eznec.com/Amateur/Articles/Baluns.pdf.

Roy Lewallen, W7EL

303. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 01:15:26 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <9acd154e-a91a-42e4-ad18-639ffc91cb7a@d36g2000prf.googlegroups.com>
Source record: 18326

On Jan 11, 6:26 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > The books state that a photon is a particle without mass.
>
> Photons have no *rest* mass but since they must necessarily
> move at the speed of light in a medium, they indeed do have
> mass because of their momentum. The mass of a photon is
> equal to Planck's constant divided by (the product of the
> speed of light times the wavelength), i.e. m=h/(c*lamda).
>
> > The photon as a particle cannot be a wave since its extremities cannot
> > be determines as with a particle.
>
> On the contrary, double slit experiments prove that a single
> photon can go through both slits and interfere with itself on
> the other side. If you design a test to prove a photon is a
> wave, it will respond like a wave (even if it is a single photon).
> If you design a test to prove a photon is a particle, it will
> respond like a particle. The duality is related to the
> uncertainty principle.
>
> The main point is that the physical manifestation of RF
> electromagnetic fields are clouds of photons. The fields and
> the photons are the same thing. Those EM fields have been proven
> to be quantized. Photons are the particles that quantize the EM
> field.
> --
> 73, Cecil http://www.w5dxp.com

Cecil
I would have no problem of accepting the presence of photons but the
link you gave me stated
that it had zero mass. I really don't understand that so I am not
willing to spend a lot of time on that or muons which are painted with
the same brush I sure as heck not willing to follow the line on
reflections that you followed as I would cringe from having to deal
with threads of more than a thousand to get the same results you
achieved. By the time Neutrinos arrive on the Earth are particles tho
possibly by a different name and I am also wary of allegations of
fresh particles which require a fresh name where its presence is
determined by unlinked deduction.
I really don't want to spread out beyond the point that I have as it
is apparent that hams are resistive to change so frankly I am at a
place where I am willing to stop my investigation as Americans have

lost the ingenuity they once had together with curiousity which is the foundation of improving the living standards of the family. Waiting for the third world to catch up so that competition is somewhat even could actualy reverse our present station among the world population which is only sustained by attracting the best from foreign countries without which we now cannot function. Any way my present aproach to radiation has not yet been overturned, so arguments are purely for the archives where self perceived antenna experts will be hung on their own petards for all to see which is one of my aims because of their passed conduct with truly good men
Best regards
Art Unwin....KB98MZ....xg (uk)

304. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 01:24:36 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <nZwal.15776$3_4.3146@newsfe10.iad>
Source record: 18327

<jimlux@earthlink.net> wrote in message
news:58fb8e56-a3a7-4fd0-a5b1-e07da3fa6af5@b38g2000prf.googlegroups.com...

> Modern dielectric oil (aka transformer oil) is refined mineral oil
> with an antioxidant (tocopherol, BHA, or BHT) added to retard
> spoiling.

Mineral oil does not "spoil" in the sense that animal or vegetable fats
(long chain carboxylic acids) do. Tocopherol (Vitamin E),
butylated-hydroxyanisole and butylated-hydroxytoluene are used (in the low
part per million range) to prevent oxidation of the oil which produces
"sludge" and "varnish" (here used as referring to deposits from
hydrocarbons such as gasoline on fuel tanks and carburetters). All three
compounds are also used in the food industry - to prevent spoilage. :-)

> Shell Diala AX
> ExxonMobil Univolt 65
>
> are the two major kinds (there's one from Castrol,too)
>
> Both are sold (in 5 gallon pails, typically, as a minimum quantity) by
> "jobbers" which can be found on the mfr's website (you enter a zip
> code and gives you the distributors within X miles), or by looking in
> the yellow pages under Oil,Lubricants-Jobbers. Used to be in the $4-5/
> gallon range, but I just was talking to someone who had to pay around
> $50 for a 5gallon pail. (probably a hangover from $100/bbl crude
> prices)
>
> You *can* use USP White Mineral Oil (laxative) available in pints at
> the drugstore, gallons at the feedstore (If you've got a colicky
> horse, gallons are the quantity wanted), but it's
> a) more expensive
> b) not water content controlled
>
> For HV dielectric purposes water content (in the ppm range) is
> important. So is particulate contamination. For a dummy load,
> probably not so much.

The partioning coefficient of agricultural grade white mineral oil is
greater than one million. Dissolved water will have no measurable effect
on the dummy load.

> Another inexpensive source of mineral oil without many additives is
> hydraulic oil (as used in, say, tractors, etc.).
>
> Even "straight weight" motor oil without additives/detergents can work

> (look for the SAE 10,15, or 20 viscosities).. it can be VERY cheap on
> sale as a "loss leader" to get folks into the store (since nobody in
> their right mind would actually run this in an engine)

For good natural convection around and through the Kanthal-Globar silicon carbide resistor used in the Cantenna, I would use no higher a viscosity oil than SAE 5.

> For a dummy load, viscosity IS important, because convective flow is
> important. (viscosity change with temperature, too...)

Most organic oils are less viscous at higher temperatures. This is good in the Cantenna application. The lubricating properties of the oil are unimportant here.

> Silicone would be massive overkill, and we won't even get into
> Fluorinert. BTW, if you spill mineral oil, it cleans up nicely with
> detergent and water.. the same cannot be said of silicone or FC-xx..
> Silicone oils are almost impossible to remove.

This is an excellent point. Freon TFï¿½ (1,1,2-trichloro-1,2,2-trifluoroethane) was excellent for removing silicone oils and greases, and it had a number of physical properties that made it ideal for many electronic applications. It is too bad that it is banned as a ozone destroying chlorofluorocarbon. In looking at some of the alternatives for cleaning away silicone oils, I would suggest looking at Caig Laboratories (makers of DeoxITï¿½) CaiKleen NF which is mainly 1,1,1,3,3-pentafluoropropane. Unfortunately its boiling point is 15 C (59 F) and it is quite expensive.

Good post, Jim!

73, Dr. Barry L. Ornitz WA4VZQ

305. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 01:29:38 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <52xal.13947$c45.2710@nlpi065.nbdc.sbc.com>
Source record: 18328

Richard Harrison wrote:
> Cecil Moore wrote:
> "Has anyone ever measured a difference between aluminum tubing and a
> solid rod at the end of an antenna?"
>
> Unnecessary as the inside diameter of the tubing would have to be at
> least 1/2-wavelength to admit significant RF energy.

Richard, it was a rhetorical question.
--
73, Cecil http://www.w5dxp.com

306. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 01:36:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <I8xal.13952$c45.1011@nlpi065.nbdc.sbc.com>
Source record: 18329

Art Unwin wrote:
> I would have no problem of accepting the presence of photons but the
> link you gave me stated that it had zero mass.

If they didn't say zero *rest* mass, they should have.
A particle with zero rest mass cannot ever travel at
the speed of light as its mass would increase without
limit. Photons do travel at the speed of light but
are known to possess energy and momentum which is
equivalent to mass related by e=mc^2.
--
73, Cecil http://www.w5dxp.com

307. Re: Baluns - To twist or not to twist the trifilar winding

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 01:38:50 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <nh7lm4de698tb0cvsdc0cpg6qadcoiqoci@4ax.com>
Source record: 18330

On Sun, 11 Jan 2009 19:31:33 -0000, "Richard Ferryman"
<richardferryman@btinternet.com> wrote:

> I have never seen a clear explanation as to why they are twisted.
>Does it improve the balance? Does it affect the coupling? Is it better to
>twist or not to twist - that is the question.
>Dick G4BBH

Hi Dick,

Twisting is to bring the two wires into very close proximity. This
reduces the characteristic Z of the transmission line they form. The
reason for wanting to have a low characteristic Z is related to the
impedance transformation (this Z being the geometric mean of the
source Z and load Z). This is generally an issue with one of those Zs
being very low and then you may want to use flat (almost foil) wires
(all wires being insulated, of course).

73's
Richard Clark, KB7QHC

308. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 03:04:27 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <68bfa903-73de-4608-9519-816b79caa898@t26g2000prh.googlegroups.com>
Source record: 18332

On Jan 11, 6:26 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > The books state that a photon is a particle without mass.
>
> Photons have no *rest* mass but since they must necessarily
> move at the speed of light in a medium, they indeed do have
> mass because of their momentum. The mass of a photon is
> equal to Planck's constant divided by (the product of the
> speed of light times the wavelength), i.e. m=h/(c*lamda).
>
> > The photon as a particle cannot be a wave since its extremities cannot
> > be determines as with a particle.
>
> On the contrary, double slit experiments prove that a single
> photon can go through both slits and interfere with itself on
> the other side. If you design a test to prove a photon is a
> wave, it will respond like a wave (even if it is a single photon).
> If you design a test to prove a photon is a particle, it will
> respond like a particle. The duality is related to the
> uncertainty principle.
>
> The main point is that the physical manifestation of RF
> electromagnetic fields are clouds of photons. The fields and
> the photons are the same thing. Those EM fields have been proven
> to be quantized. Photons are the particles that quantize the EM
> field.
> --
> 73, Cecil http://www.w5dxp.com

Well there you go Cecil I am out in left field when I move away from
the presence
of particles which probably are Neutrons as we know the Sun is
directly linked.
I have made my point and I have Richard H, David and RF whatever his
name or call is
firmly in the archives that will impale them. Roy has avoided
everything probably because of his commercial interests so he will not
declare where he is on the subject tho it is possible that the future
will declare his reluctant in other ways. As for the others they were
not around in the old days so they cannot be grouped with the others.
I will leave it to the future hams to determine what manner of men
technical or otherwise that they really are when the true facts are
discovered by doers as opposed to talking heads.I didn't need the
series of a 1000 posts per thread to fully expose them for what they

are as being resistant to change or just ignorant, certainly lazy.
Sooooo, I have achieved what I set out to do and that was to expose
them
I wonder where the next barney comes from or who it is directed at.
One thing we do know is
that they are not happy without the ability to attack so it certainly
will happen.
Best regards
Art

309. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 03:13:01 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7c1c3300-53e3-4dda-b817-26df16517115@40g2000prx.googlegroups.com>
Source record: 18333

On Jan 11, 7:36 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > I would have no problem of accepting the presence of photons but the
> > link you gave me stated that it had zero mass.
>
> If they didn't say zero *rest* mass, they should have.
> A particle with zero rest mass cannot ever travel at
> the speed of light as its mass would increase without
> limit. Photons do travel at the speed of light but
> are known to possess energy and momentum which is
> equivalent to mass related by e=mc^2.
> --
> 73, Cecil http://www.w5dxp.com

That is my point Cecil It would take me years at my slow rate to get
up to par to even discuss it let alone debate. No mass one minute and
mass the next minute, absolutely facinating, but beyond my ken and
time is short
Art

310. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 03:25:17 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <2Lyal.1001$PE4.387@nlpi061.nbdc.sbc.com>
Source record: 18334
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

Art Unwin wrote:
> On Jan 1, 9:49 am, "KC8QJP" <KC8...@yahoo.com> wrote:
>> "John Passaneau" <w3...@arrl.net> wrote in message
>>
>> news:gjimmg$dk5a$1@tr22n12.aset.psu.edu...> KC8QJP wrote:
>>>> a crisco can works well
>>> Sometimes you can get empty paint cans at professional paint supplies
>>> stores. They are nice as they are clean and shiny.
>>> John W3JXP
>> Thanks for the tip!
>
> Yes. I did that The new can had a plastic type coating on the inside
> to prevent any possible leaks and corrosion, a great improvement over
> cans of yesteryear that leaked on to the floor over time. Same story
> for the lid., Cost me something like $3 and well worth it.
> Art
The hole in the lid of a Heathkit Cantenna was to allow for expansion
due to heat buildup in the oil during heavy use. Make sure you allow for
this expansion in any sealed container if you roll your own cantenna.

Dave WD9BDZ

311. Re: Does NEC-2 model wires as solid or hollow?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 03:28:17 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <SNyal.1002$PE4.946@nlpi061.nbdc.sbc.com>
Source record: 18335

Art Unwin wrote:
> On Jan 11, 5:05 pm, Richard Fry <r...@adams.net> wrote:
>> On Jan 11, 4:39 pm, Richard Harrison wrote:
>>
>>> Richard (H) relies on books because it is more effective and efficient
>>> than experiencing everything for himself.
>> A good observation.
>>
>> How many modern research labs repeated the work that led to the
>> fundamental laws of physics in use today before they undertook the
>> design of new systems and products? (Answer = Zero.)
>>
>> Art Unwin: have you verified for yourself by mathematics and
>> experiment the "first principles" originating with the "masters" you
>> like to refer to here?
>>
>> If not, why, by your posts do you expect others on r.r.a.a. to have
>> done so?
>>
>> RF
>
> Oh my you are retreating already! I gave up the mathematical aproach
> as you know
> in favor of the question are computer programs relistically based on
> Maxwells laws
> And we are basing what the books say versus what the computer programs
> say.
> So now we await for somebody else to be the patsy for the group
Computer programs based on any fundamental law of nature must be based
on the underling mathematical principals. Computers only perform math
and logic operations. Everything else is BS.

Dave

312. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 03:44:55 UTC
From: nm5k@wt.net
Message-ID: <fa822620-7809-4f7c-863e-35e2970509dc@n33g2000pri.googlegroups.com>
Source record: 18336

On Jan 11, 2:21 pm, "Ed Cregger" <ecreg...@bellsouff.net> wrote:

>
> ----------
>
> Yeah, it's a 3kw tuner when the SWR is 1:1. Lots of folks don't understand
> that at all.
>
> I don't mean to sound like a smart ass, but all of the techno-babble (which
> I too have memorized) such as current balun - voltage balun -
> blah-blah-blah, does not help me do what I am trying to do. I've read all of
> that a thousand times at least, memorized it, passed tests on the
> fundamentals, etc. It doesn't apply directly in this instance.

Wasn't meant to.. I was just informing Cecil about the balun
in the tuner...

>
> On top of all of that, I want to be able to run about 600 watts output from
> my amplifiers (one upstairs/one downstairs). Any thoughts/ideas would be
> appreciated. I have thought of going with a fan dipole, but that will reduce
> my operating bands by nearly one half.

Can't really think of anything offhand, unless maybe you built
the various ratio baluns, and then used a switch to select
which one you want. Palomar used to make some baluns
with some different than usual ratios, but I don't think they
are still in business, and I think those were only rated for
100w or so.
So you might have to make your own to handle power.
And even then I'm not sure how well it would pan out.
I've never tried doing anything like that, so your guess
would probably be as good as mine.
Myself, I run the fan dipoles, but I'm not really too
worried about working all bands. I tend to stick
on the low bands most of the time. I hardly ever get
on 20-10 anymore, unless there is a disturbance
in the force. :/
But I still can if I want. I can slap the tuner inline and
even with the loss, I can still operate fairly well
on the "no element" bands.
But I hang out on 160/80/40 most the time.
In the summer, just 80/40 pretty much..
40 in the day, 80/75 at night.. So it's not too
complicated for me.. :/ The no tune plug n play

ease will spoil you. And the system is efficient
on the designed bands.
Heck, I've got a tower and tri-bander for the high bands.
But.. I don't use em here..
The tower is in the garage, and the beam is up in the attic.
Shows you how excited I am about 20-10 m these
days.. :/
The only time I've ever used that rig is when I've
drug it out to a few field days.
And being I don't usually work those bands at FD, I still
really haven't used it much myself.
It won 10m phone one year I think.. :) I wasn't the
operator though.. I don't come out of my hole until it gets
dark and the low bands come alive.

313. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 05:52:11 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gkelq6bir1@news.albasani.net>
Source record: 18337

Cecil Moore wrote:

> ...
> If they didn't say zero *rest* mass, they should have.
>> ...

Where can I buy a bottle of "photons at rest?"; I like to buy a bottle
just to make sure!

Actually, how can a photon possibly rest?; well, and still be a photon?

Regards,
JS

314. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 06:37:47 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <ilolm4hpnpj4a54pqb3ov0gf2us1td3kkh@4ax.com>
Source record: 18338

On Sun, 11 Jan 2009 21:52:11 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>Cecil Moore wrote:
>
>> ...
>> If they didn't say zero *rest* mass, they should have.
> >> ...
>
>Where can I buy a bottle of "photons at rest?"; I like to buy a bottle
>just to make sure!

See "slow light" at:
<http://en.wikipedia.org/wiki/Slow_light>
Not totally at rest, but really slow.

Slow light window glass would be nifty. It would load up with photons
when the sun is shining, and unload them later inside in the evening,
when it's dark. You would also see through the window what was seen
perhaps a few hours before as a delayed action movie.

>Actually, how can a photon possibly rest?; well, and still be a photon?

Everything above absolute zero is not at rest.

Unfortunately, the real answer is messy. See item #4 in the Physics
FAQ:
"Do Photons Move Slower in a Solid Medium?"
<http://www.physicsforums.com/showthread.php?t=104715>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

315. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 06:42:43 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <hhplm49ljbqikt3mahs8ittp1qsrsp05po@4ax.com>
Source record: 18339

On Sun, 11 Jan 2009 22:37:47 -0800, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>Unfortunately, the real answer is messy. See item #4 in the Physics
>FAQ:
>"Do Photons Move Slower in a Solid Medium?"
><http://www.physicsforums.com/showthread.php?t=104715>

Also #6 in the FAQ:
"Do Photons Have Mass?"

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

316. Re: Baluns - To twist or not to twist the trifilar winding

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 08:06:35 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <9KtMxfDLovaJFw4F@g3ohx.demon.co.uk>
Source record: 18340

In message <x5idnU8BzrqOBffUnZ2dnUVZ_sfinZ2d@posted.easystreetonline>,
Roy Lewallen <w7el@eznec.com> writes
>Richard Ferryman wrote:
>> I am in the process of making a 1:1 balun for QRP use and this has
>>made me think! I have seen many balun designs and construction
>>articles. A fair proportion of theses advocate twisting the wires
>>before winding on a toroid core. I have never seen a clear
>>explanation as to why they are twisted. Does it improve the balance?
>>affect the coupling? Is it better to twist or not to twist - that is
>>the question.
>> Dick G4BBH
>
>You don't want the differential-mode field (primarily between the
>conductors) to couple to the core. Twisting the conductors together
>helps prevent this, so that's what I recommend. If you don't twist
>them, the two conductors of the transmission line should lie together
>as closely as possible.
>
>The third conductor (you mention trifilar) makes the balun a "voltage"
>balun, which degrades its performance in antenna transmission line
>applications. This is explained in the article at
>http://eznec.com/Amateur/Articles/Baluns.pdf.
>
>Roy Lewallen, W7EL

FWIW, in the 1960s and 70s wideband CATV amplifiers, splitters and taps
(typically 50 to 600MHz), the bifilar and trifilar windings of the small
ferrite transformers were almost invariably NOT twisted.

I had a fair amount of experience in making some of these devices, and
can confirm that twisting tended to reduce the performance at the HF
end. With bifilar and trifilar windings, adjacent turns were carefully
interleaved. At least one manufacturer had bifilar and trifilar wire
specially made, with the strands lying side-by-side, and glued together.

If the individual strands of wire are already in intimate contact,
twisting them does not lower the characteristic impedance. Of course, if
the windings are NOT in intimate contact, the characteristic impedance
will be higher, and less-well defined. But, as the length of the
windings will be short compared with the wavelengths of the RF signals,
does this matter?

Twisting has the effect of allowing the increased possibility of part of
one winding randomly lying immediately adjacent to the next turn of the
same winding, so it tends to increase the self-capacitance of the

winding. This is almost certainly what reduces the HF performance.
--
Ian

317. QSL.Net and QTH.Net Website Status & Server Migration Update from Scott [KA9FOX]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 11:21:23 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <452f5fd9-db20-48c7-82d6-3d23837cfb8e@q30g2000prq.googlegroups.com>
Source record: 18341
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.swap

```
On Jan 8, 3:08 am, RHF <rhf-newsgro...@pacbell.net> wrote:
> On Jan 4, 7:18 pm, RHF <rhf-newsgro...@pacbell.net> wrote:
>
> > On Jan 1, 7:34 pm, RHF <rhf-newsgro...@pacbell.net> wrote:
>
> > > QSL.Net and QTH.Net Announcement ~ 73 - Al Waller
[K3TKJ]http://www.qsl.net/index.html
> > >  .
> > > QSL.Net and QTH.Net "Server Migration Update"
> > > -from- Scott [KA9FOX]http://www.qsl.net/index.html
> > >  .
> > > ~ RHF
> > >  .
>
> > =STATUS= QSL .Net and QTH.Net Server Migration
> > It is expected that on Monday morning 5 JAN 2009.
> > The sites back online ASAP after the data is received.
> > -per- Scott [KA9FOX]
> >  .
>
> =STATUS= QSL .Net and QTH.Net Server Migration
> Same Main WebPage Message for
> QSL =http://www.qsl.net/#status
> -and-
> QTH =http://www.qth.net/#status
> Both still appear to be a Work-in-Progress . . .
>
> ~ RHF
>  .

=STATUS= QSL .Net and QTH.Net Server Migration
Same Main WebPage Message for
QSL = http://www.qsl.net/#status
-and-
QTH = http://www.qth.net/#status
Both still appear to be a Work-in-Progress . . .

~ RHF
.
```

318. Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 12:20:40 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <gLednbZG6uoEqPbUnZ2dnUVZ8rGdnZ2d@westnet.com.au>
Source record: 18342

I'm proposing to build a new multi-band HF antenna. Previously I used simple relatively low (8mtr) dipole (28mtr total length) feed with ladder line and matched with a Z-Match tuner. Worked ok, but was useless for DX.
My proposed antenna is to be vertical (7mtr radiator) to be used on bands from 10mtr to 30mtr.
I have heard that vertical antennas are more susceptible to noise!

I'm keen to hear this groups view on the noise issue and generally how verticals are regarded as a DX antenna. Also keen to hear of personal experiences with vertical antennas on HF.

Regards

Peter

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

319. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 13:00:32 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <w2Hal.2907$Qa.127@bignews2.bellsouth.net>
Source record: 18343

<nm5k@wt.net> wrote in message
news:fa822620-7809-4f7c-863e-35e2970509dc@n33g2000pri.googlegroups.com...
On Jan 11, 2:21 pm, "Ed Cregger" <ecreg...@bellsouff.net> wrote:

>
> -----------
>
> Yeah, it's a 3kw tuner when the SWR is 1:1. Lots of folks don't understand
> that at all.
>
> I don't mean to sound like a smart ass, but all of the techno-babble
> (which
> I too have memorized) such as current balun - voltage balun -
> blah-blah-blah, does not help me do what I am trying to do. I've read all
> of
> that a thousand times at least, memorized it, passed tests on the
> fundamentals, etc. It doesn't apply directly in this instance.

Wasn't meant to.. I was just informing Cecil about the balun
in the tuner...

>
> On top of all of that, I want to be able to run about 600 watts output
> from
> my amplifiers (one upstairs/one downstairs). Any thoughts/ideas would be
> appreciated. I have thought of going with a fan dipole, but that will
> reduce
> my operating bands by nearly one half.

Can't really think of anything offhand, unless maybe you built
the various ratio baluns, and then used a switch to select
which one you want. Palomar used to make some baluns
with some different than usual ratios, but I don't think they
are still in business, and I think those were only rated for
100w or so.
So you might have to make your own to handle power.
And even then I'm not sure how well it would pan out.
I've never tried doing anything like that, so your guess
would probably be as good as mine.
Myself, I run the fan dipoles, but I'm not really too
worried about working all bands. I tend to stick
on the low bands most of the time. I hardly ever get
on 20-10 anymore, unless there is a disturbance
in the force. :/
But I still can if I want. I can slap the tuner inline and

even with the loss, I can still operate fairly well
on the "no element" bands.
But I hang out on 160/80/40 most the time.
In the summer, just 80/40 pretty much..
40 in the day, 80/75 at night.. So it's not too
complicated for me.. :/ The no tune plug n play
ease will spoil you. And the system is efficient
on the designed bands.
Heck, I've got a tower and tri-bander for the high bands.
But.. I don't use em here..
The tower is in the garage, and the beam is up in the attic.
Shows you how excited I am about 20-10 m these
days.. :/
The only time I've ever used that rig is when I've
drug it out to a few field days.
And being I don't usually work those bands at FD, I still
really haven't used it much myself.
It won 10m phone one year I think.. :) I wasn't the
operator though.. I don't come out of my hole until it gets
dark and the low bands come alive.

I may end up doing what you are doing - sort of. I too operate mostly 75 and
40 meters these days. I can put up a vertical for the higher bands. I
already have three commercial verticals (some old, one new), so I would
still have the capability to operate the higher HF bands, if I wanted to.

Thanks for letting me pick your brains. Much appreciated. All of you.

Ed, N2ECW

320. Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 13:37:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xIHal.1020$PE4.506@nlpi061.nbdc.sbc.com>
Source record: 18344

There were very few sunspots during the last "Little Ice Age"
from about 1645 to 1715. Might we be entering another one?

http://science.nasa.gov/ssl/pad/solar/images/ssn_yearly.jpg

http://www.americanthinker.com/blog/2008/04/sunspots_and_a_possible_new_ic.html

http://english.pravda.ru/science/earth/106922-earth_ice_age-0
--
73, Cecil http://www.w5dxp.com

321. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 14:11:22 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9B91532A45CE6VeebleFetzer@216.250.184.7>
Source record: 18345

In news:gLednbZG6uoEqPbUnZ2dnUVZ8rGdnZ2d@westnet.com.au "Peter" <colleenpeter@westnet.com.au> wrote:

> I'm keen to hear this groups view on the noise issue and generally how
> verticals are regarded as a DX antenna. Also keen to hear of personal
> experiences with vertical antennas on HF.

I've had a Cushcraft R5 vertical up on the roof since 1991 and have worked 214 countries with 196 confirmed, mostly on CW, never running more than 100 watts, with a very, very low-effort operation.

Things have been very tough the past several years with the lack of sunspots though; watching the traffic on the DX clusters, it's obvious that folks with better antennas are working people I can't even hear. On the other hand, if I can hear them, I can usually work them.

As far as noise is concerned, I don't have anything other than a (very) low 40m dipole to compare with, and the dipole is a lot noisier. I'm in the city, on a very small lot, surrounded by other homes and the power lines are about 60' away from the vertical and at about the same height. The far end of the dipole is probably not more than 10' from the power lines, both horizontally and vertically.

--
Bert Hyman St. Paul, MN bert@iphouse.com

322. Re: N power connector rating? [Hardline Connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 14:13:34 UTC
From: Dave <dave@dave.dave>
Message-ID: <jeIal.45170$%o3.12785@newsfe02.iad>
Source record: 18346

NoSPAM wrote:
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:e13daa31-3c18-4e17-8561-353608c7ef5d@w39g2000prb.googlegroups.com...
>
> "What I use on 7/8 hardline is a copper reducer with a barrel connecter
> soldered into one end and then I screw the combination over the hard
> line. Now you have an output from the hardline that can fit most things
> . One time I filled the copper reducer with dielectric before I inserted
> the barrel connecter but could see no difference using max power.
> Certainly a lot cheaper than Andrews connectors and if the coax route is
> not ideal it is easy and inexpensive to add flexible lengths at tight
> corners, such as emerging from underground piping. Hardline gets
> extremely rigid and the outer insulation is subject to cracking in the
> winter time which is when I seem to have to work on things."
>
> Just remember that the aluminum to copper galvanic couple promotes the
> corrosion of the aluminum. Keep the contact areas as dry as possible if
> you don't want problems. I have found that wrapping several layers of
> tightly stretched vinyl electrical tape and then spraying the area with
> clear Krylonï¿½ acrylic varnish does a reasonable job. But since water
> vapor can diffuse through the tape, you will need to check the
> connection periodically.
>
> 73, Dr. Barry L. Ornitz WA4VZQ

Use an elbow to get tight 90s.

http://www.eaa1000.av.org/technicl/corrosion/galvanic.htm

323. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 14:16:53 UTC
From: Dave <dave@dave.dave>
Message-ID: <phlal.45171$%o3.24225@newsfe02.iad>
Source record: 18347

Bob Bob wrote:
> Without actually researching it I suspect the power handling capacity
> will be similar to the 1/2" line itself. When a N plug mates with a N
> socket it presents the same Z as the line with pretty well the same
> diameters. ie the small pin is not carrying the whole load.

The little pin is only a mating guide for a much larger center conductor.

I like 7/8" "Heliax". EIA connectors.

324. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 14:19:14 UTC
From: Dave <dave@dave.dave>
Message-ID: <CjIal.45172$%o3.779@newsfe02.iad>
Source record: 18348

Peter wrote:
> I'm proposing to build a new multi-band HF antenna. Previously I used simple
> relatively low (8mtr) dipole (28mtr total length) feed with ladder line and
> matched with a Z-Match tuner. Worked ok, but was useless for DX.
> My proposed antenna is to be vertical (7mtr radiator) to be used on bands
> from 10mtr to 30mtr.
> I have heard that vertical antennas are more susceptible to noise!
>
> I'm keen to hear this groups view on the noise issue and generally how
> verticals are regarded as a DX antenna. Also keen to hear of personal
> experiences with vertical antennas on HF.
>
> Regards
>
> Peter
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm
>
>

I'm thinking of getting one of these for the roof:

http://www.eham.net/reviews/detail/315

325. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 14:22:57 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <cIIal.2855$MT3.1095@bignews4.bellsouth.net>
Source record: 18349

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:xIHal.1020$PE4.506@nlpi061.nbdc.sbc.com...
> There were very few sunspots during the last "Little Ice Age"
> from about 1645 to 1715. Might we be entering another one?
>
> http://science.nasa.gov/ssl/pad/solar/images/ssn_yearly.jpg
>
> http://www.americanthinker.com/blog/2008/04/sunspots_and_a_possible_new_ic.html
>
> http://english.pravda.ru/science/earth/106922-earth_ice_age-0
> --
> 73, Cecil http://www.w5dxp.com

That has been on my mind also. We do having a significant slowing of the current known as the Atlantic Conveyor over the last several years. That does not bode well for Europe/England just by itself.

I was looking forward to one more active sunspot cycle before I died (I'm a six meter fan), but it doesn't appear that we are going to have one, if present trends continue.

Of course, just when you think you have Mother Nature all figured out - she comes out of left field with some new phenomenon that catches us by surprise. For instance, the Yellowstone super caldera. If that were to erupt, it would mean an Ice Age for sure. Or would it?

Ed, N2ECW

326. 1-lambda loop gap voltage

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 15:44:20 UTC
From: ve2pid <ve2pid@videotron.ca>
Message-ID: <f74854d0-5faf-4305-95b4-e1cd98e958bd@h5g2000yqh.googlegroups.com>
Source record: 18350

Hi to all,

I am modeling a square loop. The feed point is at the center of the base segment. But I want to have a gap at the middle of a vertical wire, in order to place a relay there to switch to this feed point instead of the base point, so it would change polarization.

My question: does EZNEC provides a way to get the voltage at the vertical (open point) mesured at the gap when the base source is 'active'? Just to be sure that arc won't be created there.

73 de Pierre VE2PID

327. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 15:52:41 UTC
From: Alan WA4SCA <ALANBIDDLE70@YAHOO.COM>
Message-ID: <j9pmm4pjk84qpn32e4g6ka4pb5ul4go2ie@4ax.com>
Source record: 18251

Cecil,

We might indeed be approaching a Dalton Minimum, if not a full scale Maunder Minimum. Much like AGW, there is a strong East-West dichotomy in predictions. The NASA-ESA solar gurus have in the past been predicting a good cycle 24 followed by a poor cycle 25. By contrasts, the Russians have been predicting that cycle 24 and 25 will be very low. The NASA predictions out of MSFC seem to be converging toward the Russian values. We shall see.

Somewhat OT, but last year I taught a General Class license course. The standard illustrations of the sunspot cycle are basically good and better. I added in some historical data showing the Dalton and Maunder Minima. It was fun to watch the wide eyes.

--
Alan
WA4SCA

328. Re: 1-lambda loop gap voltage

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 16:34:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <oiKal.1776$%54.1731@nlpi070.nbdc.sbc.com>
Source record: 18252

ve2pid wrote:
> I am modeling a square loop. The feed point is at the center of the
> base segment. But I want to have a gap at the middle of a vertical
> wire, in order to place a relay there to switch to this feed point
> instead of the base point, so it would change polarization.

Seems to me, that relay should always be closed during operation
from the base feedpoint so there will essentially be zero volts
across the contacts. Since the relay should not be switched
with the key down, your question seems irrelevant.

> My question: does EZNEC provides a way to get the voltage at the
> vertical (open point) mesured at the gap when the base source is
> 'active'? Just to be sure that arc won't be created there.

You don't want the gap to even exist when the base source is
active. The relay contact should always be closed when the
base source is active. The base source relay should always
be closed when the side source is active.
--
73, Cecil http://www.w5dxp.com

329. Re: 1-lambda loop gap voltage

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 16:49:29 UTC
From: ve2pid <ve2pid@videotron.ca>
Message-ID: <07427e7c-d7cf-4c86-86ea-4477219fdab8@q30g2000prq.googlegroups.com>
Source record: 18253

> Seems to me, that relay should always be closed during operation
> from the base feedpoint so there will essentially be zero volts
> across the contacts. Since the relay should not be switched
> with the key down, your question seems irrelevant.

To be more precise, the loop would remain intact, but I want to
disconnect the coax from the inactive source, and I am looking for a
way to do this using a relay near the source (or at the shack). The
power would the full legal power.

Any idea ?

330. Re: 1-lambda loop gap voltage

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 17:58:07 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <PwLal.5567$BC4.2372@nwrddc02.gnilink.net>
Source record: 18254

"ve2pid" <ve2pid@videotron.ca> wrote in message
news:07427e7c-d7cf-4c86-86ea-4477219fdab8@q30g2000prq.googlegroups.com...
>> Seems to me, that relay should always be closed during operation
>> from the base feedpoint so there will essentially be zero volts
>> across the contacts. Since the relay should not be switched
>> with the key down, your question seems irrelevant.
>
> To be more precise, the loop would remain intact, but I want to
> disconnect the coax from the inactive source, and I am looking for a
> way to do this using a relay near the source (or at the shack). The
> power would the full legal power.
>
> Any idea ?

Hi Pierre

I submit that you will have no luck with your plan to run the two
transmission lines from the antenna to the shack where the switch chooses
which one to use. The unused line will present an impedance across the
"gap" which is a function of the length of the line.
Correct me if I am wrong.

Jerry KD6JDJ

331. Re: 1-lambda loop gap voltage

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 18:22:25 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <eKadnTOwL7j5F_bUnZ2dnUVZ_gadnZ2d@posted.easystreetonline>
Source record: 18255

Jerry wrote:
> "ve2pid" <ve2pid@videotron.ca> wrote in message
> news:07427e7c-d7cf-4c86-86ea-4477219fdab8@q30g2000prq.googlegroups.com...
>>> Seems to me, that relay should always be closed during operation
>>> from the base feedpoint so there will essentially be zero volts
>>> across the contacts. Since the relay should not be switched
>>> with the key down, your question seems irrelevant.
>> To be more precise, the loop would remain intact, but I want to
>> disconnect the coax from the inactive source, and I am looking for a
>> way to do this using a relay near the source (or at the shack). The
>> power would the full legal power.
>>
>> Any idea ?
>
> Hi Pierre
>
> I submit that you will have no luck with your plan to run the two
> transmission lines from the antenna to the shack where the switch chooses
> which one to use. The unused line will present an impedance across the
> "gap" which is a function of the length of the line.
> Correct me if I am wrong.
>
> Jerry KD6JDJ

There are two ways to get the gap voltage. One is to insert a zero-amplitude current source in a continuous wire at the gap position. The source will act like an open circuit, but the voltage across it can be seen via the Src Dat (source data) button. The other is to insert a high impedance load at the gap position and use Load Dat. In either case it's necessary to set the power level in the Options Menu.

Regarding using dual feed lines, I've done this successfully many times. The trick is to use low loss lines of the correct length. For example, my "Field Day Special" antenna (http://eznec.com/Amateur/Articles/Field_Day_Special.pdf) requires the unused line to look like an open circuit, so its length is an integral number of half wavelengths and it's left open at the transmitter/receiver end. Low loss is important, since even a surprisingly small amount of loss will lower the impedance of a line intended to present an open circuit and raise the impedance of a line intended to look like a short.

EZNEC v. 5.0 has the ability to include lossy transmission lines in the model, so you can directly model the effect of transmission line loss and imperfect length.

Roy Lewallen, W7EL

332. Re: 1-lambda loop gap voltage

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 18:22:57 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gkg1q0$4c0$1@news.jpl.nasa.gov>
Source record: 18257

Jerry wrote:
> "ve2pid" <ve2pid@videotron.ca> wrote in message
> news:07427e7c-d7cf-4c86-86ea-4477219fdab8@q30g2000prq.googlegroups.com...
>>> Seems to me, that relay should always be closed during operation
>>> from the base feedpoint so there will essentially be zero volts
>>> across the contacts. Since the relay should not be switched
>>> with the key down, your question seems irrelevant.
>> To be more precise, the loop would remain intact, but I want to
>> disconnect the coax from the inactive source, and I am looking for a
>> way to do this using a relay near the source (or at the shack). The
>> power would the full legal power.
>>
>> Any idea ?
>
> Hi Pierre
>
> I submit that you will have no luck with your plan to run the two
> transmission lines from the antenna to the shack where the switch chooses
> which one to use. The unused line will present an impedance across the
> "gap" which is a function of the length of the line.
> Correct me if I am wrong.
>
> Jerry KD6JDJ
>
One can hook a DPDT relay up. Armature terminals go to the loop. One set
of the contacts are shorted, the other set connect to the feedline.

Yes, you'll need to know the voltage (relative to ground/feedline/relay
coil) at that point to choose a relay. Hook a large value resistor in
your NEC model from the point to "ground" (you should be modeling that
piece of coax as a single wire anyway.. so just put it in series). not
much current will flow through the resistor, so the pattern won't
change, but you'll be able to measure the voltage across it (or, more
properly, you can look at the current in that resistive segment and use
Ohm's law)

333. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 18:50:13 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <b5ae91e6-936d-47bd-a9e8-ee7221b88ff6@35g2000pry.googlegroups.com>
Source record: 18256

On Jan 11, 9:04 pm, Art Unwin wrote:
> I have made my point and I have Richard H, David and RF whatever
> his name or call is firmly in the archives that will impale them.

Certainly not in my case, Art, as I have yet to comment on the subject of photons on any NG.

RF

334. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 19:05:27 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gkg49o$bs6a$1@tr22n12.aset.psu.edu>
Source record: 18258

Cecil Moore wrote:
> There were very few sunspots during the last "Little Ice Age"
> from about 1645 to 1715. Might we be entering another one?
>
> http://science.nasa.gov/ssl/pad/solar/images/ssn_yearly.jpg
>
> http://www.americanthinker.com/blog/2008/04/sunspots_and_a_possible_new_ic.html
>
>
> http://english.pravda.ru/science/earth/106922-earth_ice_age-0

Ice ages are liberal scare tactics! 8^)

Seriously, I think we're going to need more of a sample than just one
Maunder minimum. Check back with me in another 50 years, and we'll
discuss.......

- 73 d eMike N3LI -

335. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 19:10:13 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gkg4in$bs6c$1@tr22n12.aset.psu.edu>
Source record: 18259

Ed Cregger wrote:

> That has been on my mind also. We do having a significant slowing of the
> current known as the Atlantic Conveyor over the last several years. That
> does not bode well for Europe/England just by itself.
>
> I was looking forward to one more active sunspot cycle before I died (I'm a
> six meter fan), but it doesn't appear that we are going to have one, if
> present trends continue.
>
> Of course, just when you think you have Mother Nature all figured out - she
> comes out of left field with some new phenomenon that catches us by
> surprise. For instance, the Yellowstone super caldera. If that were to
> erupt, it would mean an Ice Age for sure. Or would it?

Anyone keeping tabs on the earthquake activity in Yellowstone?

http://volcanoes.usgs.gov/yvo/

- 73 de Mike N3LI -

336. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 20:33:14 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <VGNaI.3056$Qa.1611@bignews2.bellsouth.net>
Source record: 18260

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gkg4in$bs6c$1@tr22n12.aset.psu.edu...
> Ed Cregger wrote:
>
>> That has been on my mind also. We do having a significant slowing of the
>> current known as the Atlantic Conveyor over the last several years. That
>> does not bode well for Europe/England just by itself.
>>
>> I was looking forward to one more active sunspot cycle before I died (I'm
>> a six meter fan), but it doesn't appear that we are going to have one, if
>> present trends continue.
>>
>> Of course, just when you think you have Mother Nature all figured out -
>> she comes out of left field with some new phenomenon that catches us by
>> surprise. For instance, the Yellowstone super caldera. If that were to
>> erupt, it would mean an Ice Age for sure. Or would it?
>
>
> Anyone keeping tabs on the earthquake activity in Yellowstone?
>
>
> http://volcanoes.usgs.gov/yvo/
>
>
>
>
> - 73 de Mike N3LI -

Somewhat. That would definitely bring on an Ice Age, should it have a full scale eruption. Never a boring moment.

Ed, N2ECW

337. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 21:22:10 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <cpbnm4he3f6b6uo73prsu1n9dgm5h64o4q@4ax.com>
Source record: 18261

On Mon, 12 Jan 2009 07:37:34 -0600, Cecil Moore <nospam@w5dxp.com>
wrote:

>There were very few sunspots during the last "Little Ice Age"
>from about 1645 to 1715. Might we be entering another one?

Just one of many predictions for the demise of civilization:
<http://en.wikipedia.org/wiki/Risks_to_civilization,_humans_and_planet_Earth>

Personally, I think a random asteroid impact, will trigger mass
retaliation by a paranoid military, guessing that it's a missile
attack. The explosions will cause one of several super volcanoes to
erupt, resulting in global famine and precipitate another ice age. the
resultant earthquakes will precipitate tsunami's, pandemics, and 3rd
party politics. After a few thousand years for the planet to recover,
the dinosaurs will return, take over, and devour the survivors. The
date of this event is probably one of the following:
<http://www.bible.ca/pre-date-setters.htm>
2012 seems to be the consensus. Please mark your calendar.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

338. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 22:01:55 UTC
From: Dave <joe@somewhere.com>
Message-ID: <xYSdnchMNvROIPbUnZ2dnUVZ_qrinZ2d@earthlink.com>
Source record: 18262

On Mon, 12 Jan 2009 09:22:57 -0500, Ed Cregger wrote:

>
> I was looking forward to one more active sunspot cycle before I died
> (I'm a six meter fan), but it doesn't appear that we are going to have
> one, if present trends continue.
>

The sun is fine. There is nothing extraordinary nor remarkable about
this minimum.

339. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 22:04:44 UTC
From: Dave <joe@somewhere.com>
Message-ID: <xYSdnctMNvThI_bUnZ2dnUVZ_qrinZ2d@earthlink.com>
Source record: 18263

On Mon, 12 Jan 2009 13:22:10 -0800, Jeff Liebermann wrote:

> On Mon, 12 Jan 2009 07:37:34 -0600, Cecil Moore <nospam@w5dxp.com>
> wrote:
>
>>There were very few sunspots during the last "Little Ice Age" from about
>>1645 to 1715. Might we be entering another one?
>
> Just one of many predictions for the demise of civilization:
> <http://en.wikipedia.org/wiki/
Risks_to_civilization,_humans_and_planet_Earth>
>
> Personally, I think a random asteroid impact, will trigger mass
> retaliation by a paranoid military, guessing that it's a missile attack.
> The explosions will cause one of several super volcanoes to erupt,
> resulting in global famine and precipitate another ice age. the
> resultant earthquakes will precipitate tsunami's, pandemics, and 3rd
> party politics. After a few thousand years for the planet to recover,
> the dinosaurs will return, take over, and devour the survivors. The
> date of this event is probably one of the following:
> <http://www.bible.ca/pre-date-setters.htm> 2012 seems to be the
> consensus. Please mark your calendar.

We should be so lucky...

340. Re: Stop Israeli terrorism against Palestine&#65533;s children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-12 23:31:48 UTC
From: Gerald Simonowits <jerseyj@superlink.net>
Message-ID: <jerseyj-1C308E.18314812012009@cpe-76-190-186-198.neo.res.rr.com>
Source record: 18264

In article <tzitzikas.3afde17@radiobanter.com>,
tzitzikas <tzitzikas.3afde17@radiobanter.com> wrote:

> asd;662958 Wrote:
> > See the Zionist terrorism against Palestine&#65533;s children
> >
> > http://www.slide.com/r/Cr-oz5Wx5D_4b_n7quhfYQ_7CoJPFnUM?
>
> israel kills inoccent people. many of them are childrens and womens.
> Greek citizens support Palestine&#65533;s people!

This discussion is NOT apropriate to this newsgroup. In addition, Hamas targets civilian population centers, the Israeli's target military targets, and all too often, much like the Iraqi scum, they choose to surround themselves by civilians so that if they are attacked there are large civilian casualties. Bunch of cowards doing things like placing a military installation in a mosque!

Can we get this thread the heck off of here now.

341. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 00:36:29 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <gkgnmg$8c78$1@tr22n12.aset.psu.edu>
Source record: 18265

NoSPAM wrote:
> <jimlux@earthlink.net> wrote in message
> news:58fb8e56-a3a7-4fd0-a5b1-e07da3fa6af5@b38g2000prf.googlegroups.com...
>
>> Modern dielectric oil (aka transformer oil) is refined mineral oil
>> with an antioxidant (tocopherol, BHA, or BHT) added to retard
>> spoiling.
>
> Mineral oil does not "spoil" in the sense that animal or vegetable fats
> (long chain carboxylic acids) do. Tocopherol (Vitamin E),
> butylated-hydroxyanisole and butylated-hydroxytoluene are used (in the
> low part per million range) to prevent oxidation of the oil which
> produces "sludge" and "varnish" (here used as referring to deposits from
> hydrocarbons such as gasoline on fuel tanks and carburetters). All
> three compounds are also used in the food industry - to prevent
> spoilage. :-)
>
>> Shell Diala AX
>> ExxonMobil Univolt 65
>>
>> are the two major kinds (there's one from Castrol,too)
>>
>> Both are sold (in 5 gallon pails, typically, as a minimum quantity) by
>> "jobbers" which can be found on the mfr's website (you enter a zip
>> code and gives you the distributors within X miles), or by looking in
>> the yellow pages under Oil,Lubricants-Jobbers. Used to be in the $4-5/
>> gallon range, but I just was talking to someone who had to pay around
>> $50 for a 5gallon pail. (probably a hangover from $100/bbl crude
>> prices)
>>
>> You *can* use USP White Mineral Oil (laxative) available in pints at
>> the drugstore, gallons at the feedstore (If you've got a colicky
>> horse, gallons are the quantity wanted), but it's
>> a) more expensive
>> b) not water content controlled
>>
>> For HV dielectric purposes water content (in the ppm range) is
>> important. So is particulate contamination. For a dummy load,
>> probably not so much.
>
> The partioning coefficient of agricultural grade white mineral oil is
> greater than one million. Dissolved water will have no measurable
> effect on the dummy load.
>

>> Another inexpensive source of mineral oil without many additives is
>> hydraulic oil (as used in, say, tractors, etc.).
>>
>> Even "straight weight" motor oil without additives/detergents can work
>> (look for the SAE 10,15, or 20 viscosities).. it can be VERY cheap on
>> sale as a "loss leader" to get folks into the store (since nobody in
>> their right mind would actually run this in an engine)
>
> For good natural convection around and through the Kanthal-Globar
> silicon carbide resistor used in the Cantenna, I would use no higher a
> viscosity oil than SAE 5.
>
>> For a dummy load, viscosity IS important, because convective flow is
>> important. (viscosity change with temperature, too...)
>
> Most organic oils are less viscous at higher temperatures. This is good
> in the Cantenna application. The lubricating properties of the oil are
> unimportant here.
>
>> Silicone would be massive overkill, and we won't even get into
>> Fluorinert. BTW, if you spill mineral oil, it cleans up nicely with
>> detergent and water.. the same cannot be said of silicone or FC-xx..
>> Silicone oils are almost impossible to remove.
>
> This is an excellent point. Freon TF®
> (1,1,2-trichloro-1,2,2-trifluoroethane) was excellent for removing
> silicone oils and greases, and it had a number of physical properties
> that made it ideal for many electronic applications. It is too bad that
> it is banned as a ozone destroying chlorofluorocarbon. In looking at
> some of the alternatives for cleaning away silicone oils, I would
> suggest looking at Caig Laboratories (makers of DeoxIT®) CaiKleen NF
> which is mainly 1,1,1,3,3-pentafluoropropane. Unfortunately its boiling
> point is 15 C (59 F) and it is quite expensive.
>
> Good post, Jim!
>
> 73, Dr. Barry L. Ornitz WA4VZQ
>
Hi all:

Great post with lots of good info. But look for a power line transformer
there are very high voltages and a lot of power. In a Ham dummy load the
max voltage on the resistor would be about 275V at 1500w. Unless your a
CB'er you will not see more than that. So hundreds, my self includeDd
Ham's have use common mineral oil from the drug store with fine results.
So go for it. The last time I was took part in filling a dummy load was
back in the seventy's. I was helping friend move into a new house and
set up the ham shack. We needed to get new oil for the dummy load as we
had dumped the old oil rather than move it full and take the chance of
it spilling. So we went to the store and got the oil and along with it

we picked up some water glasses and repair parts for a toilet. The check out girl looked at us kind of funny and I really did my friend reputation in by telling her we had found a new way to turn on...

John Passaneau, W3JXP

342. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 01:26:50 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gkgqkovqj1@news.jpl.nasa.gov>
Source record: 18267

John Passaneau wrote:

>
> Great post with lots of good info. But look for a power line transformer
> there are very high voltages and a lot of power. In a Ham dummy load the
> max voltage on the resistor would be about 275V at 1500w. Unless your a
> CB'er you will not see more than that. So hundreds, my self includeDd
> Ham's have use common mineral oil from the drug store with fine results.

The issue isn't the water content or particulate contamination (which affect the HV behavior) but the viscosity. Diala AX (for instance) is quite low viscosity. 9.7 cSt/56 SUS at 40C, 2.3cSt/34SUS at 100C

http://www.nttworldwide.com/docs/diala-ax.pdf

9cSt (mm^2/s) is about the dividing line between SAW 20 and 30 AT 100C, so Diala AX is a lot less viscous than even 20 weight motor oil (2.3cSt vs 9.3 cSt)

The typical Mineral Oil, USP, heavy at a drug store is around 34cSt viscosity (3-4 times heavier).

Diala pours pretty readily.. I'd say about like half and half, but not as thick as whipping cream.

That's important for the heat transfer, because you need the circulation inside the load (unless you're just pulsing it..) By the way, that's why the rating on the Cantenna is different for USP mineral oil and insulating oil.
http://www.mfjenterprises.com/man/pdf/MFJ-250.pdf

for 10minute duration, the rating is about 60% when using mineral oil instead of transformer oil.

For long durations, the whole thing gets hot and reaches thermal equilibrium.

For short durations, the lower viscosity transformer oil moves the heat away from the resistor faster keeping it at lower temperature.

That said, most hams aren't going to run their dummy load at full power for 10 minutes at a crack.

343. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 01:34:39 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <n8Sal.8646$8_3.566@flpi147.ffdc.sbc.com>
Source record: 18266

Dave wrote:
> The sun is fine. There is nothing extraordinary nor remarkable about
> this minimum.

Here's a quote from the web:

"The most recent minimum was in March last year. The new cycle,
No.24, was supposed to start soon after that, with a gradual
build-up in sunspot numbers. It didn't happen. That the rapid
temperature decline in 2007 coincided with the failure of cycle
No.24 to begin on schedule is not proof of a causal connection
but it is cause for concern."
--
73, Cecil http://www.w5dxp.com

344. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 02:37:23 UTC
From: nm5k@wt.net
Message-ID: <99401be4-d4c9-445c-a225-00d845123475@z6g2000pre.googlegroups.com>
Source record: 18268

On Jan 12, 6:20 am, "Peter" <colleenpe...@westnet.com.au> wrote:
> I'm proposing to build a new multi-band HF antenna. Previously I used simple
> relatively low (8mtr) dipole (28mtr total length) feed with ladder line and
> matched with a Z-Match tuner. Worked ok, but was useless for DX.

Shouldn't have been. Maybe not as good as a higher dipole, but
you should have been able to work some DX. I once used a 40m
dipole camping which was about 8 ft off the ground.
I tried it on 15m, and was working JA's left and right.
And 24 ft up is a good bit better than 8 ft.

> My proposed antenna is to be vertical (7mtr radiator) to be used on bands
> from 10mtr to 30mtr.
> I have heard that vertical antennas are more susceptible to noise!

No. There is no difference as far as the antenna. It depends on the
polarity of the noise source. If it's vertical, then yes, the vertical
would pick up more noise.
If the noise source was horizontal, which is often is these days,
then the dipole would receive more noise.
Many man made noise sources are vertical, but that's
no different than having a desired signal being vertical.
Noise is RF the same as any other signal, and follows the
same rules.
Being crossed polarized will generally give you about a
20 db loss in signal. That will apply the same no matter
if it's a desired signal, or noise.
This only applies to a local space wave, which is how
most noise arrives . It gets a lot more complicated for
sky wave, and usually means a good bit less difference
overall.
So don't worry about noise until it possibly becomes an
issue. It's also quite possible for the increase in signals
to be greater than the increase in noise when working
long paths where the vertical has an advantage over the
lower dipole.
They work real well for DX and also local space wave
coverage, which is fairly popular on 10m.
But I recommend an elevated antenna when using the
higher bands. I would not use a ground mount unless
I had no other choice.
The R5 mentioned is a good one for that application.
I'm wondering how you will feed a 21 ft radiator for
all bands using a home brew design. It's not as simple
as it might seem for proper operation if elevated.

The R5 is a "1/2 wave" type design that does not require
radials. It's pretty convenient.
But if you use a trapped 1/4 wave ground plane type of
scheme for all bands, you will need at least one ground
radial for band, and preferably at least two spaced 180
degrees apart. And that's just a minimum.
Most ground planes I use have at least four radials.

345. Re: N power connector rating? [Hardline Connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 02:57:52 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <PqTal.15795$2w3.15158@newsfe19.iad>
Source record: 18269

"Dave" <dave@dave.dave> wrote in message
news:jeIal.45170$%o3.12785@newsfe02.iad...
> NoSPAM wrote:
>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>> news:e13daa31-3c18-4e17-8561-353608c7ef5d@w39g2000prb.googlegroups.com...
>>
>> "What I use on 7/8 hardline is a copper reducer with a barrel connecter
>> soldered into one end and then I screw the combination over the hard
>> line. Now you have an output from the hardline that can fit most things
>> . One time I filled the copper reducer with dielectric before I inserted
>> the barrel connecter but could see no difference using max power.
>> Certainly a lot cheaper than Andrews connectors and if the coax route is
>> not ideal it is easy and inexpensive to add flexible lengths at tight
>> corners, such as emerging from underground piping. Hardline gets
>> extremely rigid and the outer insulation is subject to cracking in the
>> winter time which is when I seem to have to work on things."

Just to clarify things, the above part is from Art. The following is mine.

>> Just remember that the aluminum to copper galvanic couple promotes the
>> corrosion of the aluminum. Keep the contact areas as dry as possible if
>> you don't want problems. I have found that wrapping several layers of
>> tightly stretched vinyl electrical tape and then spraying the area with
>> clear Krylonï¿½ acrylic varnish does a reasonable job. But since water
>> vapor can diffuse through the tape, you will need to check the
>> connection periodically.
>>
>> 73, Dr. Barry L. Ornitz WA4VZQ
>
> Use an elbow to get tight 90s.
>
> http://www.eaa1000.av.org/technicl/corrosion/galvanic.htm

This is a good list because it covers many grades of aluminum and stainless
steel (but unfortunately not the 308 stainless alloy often used in wire and
nuts, bolts, and washers found in hardware stores). I wish it listed the
actual voltages referenced to a standard electrode however. Galvanic
couples of less than a tenth of a volt corrode very slowly and are often
acceptable depending on the application. I have found the following
article useful.
http://www.ocean.udel.edu/seagrant/publications/corrosion.html

Also I would like to add that the Krylon sprayed over the vinyl tape is
very important. Being an acrylic, clear Krylon protects the vinyl from
ultraviolet damage.

73, Barry WA4VZQ

346. Re: Antenna "chalking" ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 03:47:38 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <r9Ual.8139$qi.5781@newsfe09.iad>
Source record: 18270

"JB" <nospam@goofball.net> wrote in message
news:hw4al.5264$Es4.2402@nwrddc01.gnilink.net...
>
> "Gary Smith" <vkthree@gmail.com> wrote in message
> news:gk9vqjbdq1@news-01.bur.connect.com.au...
>> Hi, i have a 2/70 verticle that is "chalking" on the outside of the
>> white section. I think this is the right term for it. If you grab it
>> white powdery remnants stay on your hands or clothes. How do you go
>> about fixing this? Wash with soap and water then spray enamel on it
>> maybe?
>>
>> Thanks for any input...
>>
>> Gary
>> VK3LCD
>
> UV deterioration. Sand and use white Acrylic enamel. I have used it on
> masts and Coax too. I have used other light Satin colors for camo effect
> with no harm. Darker pigments may detune.

Actually white acrylic enamel can have more of an effect than you might
think. It is because titanium dioxide pigment is used to achieve the white
color. Depending on the anatase/rutile ratio, the dielectric constant of
titanium dioxide can range from 80 to 110. That of the acrylic paint
without pigment typically is around 3.4. Other pigments can also have an
effect, but avoid any paint containing metallic particles.

I suggest using something like Crystal Clear Kryloni¿½ or similar products.
By the way, acrylic paint has excellent ultraviolet resistance.

73, Dr. Barry L. Ornitz WA4VZQ

347. Re: N power connector rating? [Hardline Connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 06:05:12 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <na9om41l6bvtm5etjb5dbe1rojbkd9gacg@4ax.com>
Source record: 18271

On Mon, 12 Jan 2009 21:57:52 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>Also I would like to add that the Krylon sprayed over the vinyl tape is
>very important. Being an acrylic, clear Krylon protects the vinyl from
>ultraviolet damage.
> 73, Barry WA4VZQ

I've been waterproofing RF connectors using 0.5" wide PTFE tape to embalm the connector. The PTFE will eventually cold flow, forming a water tight seal. The PTFE also prevents capillary action from sucking water into the connector through the gaps, such as along the outer knurling in UHF connectors. On top of that, goes a layer of 3M Scotch 33+ electrical tape, which is claimed to be UV resistant. The PTFE tape does the waterproofing. The outer PVC tape just holds everything in place.

I've done some crude life tests on my roof at 2 year and 5 year intervals. I found that when unwrapped, the connectors are a shiny as they were when new.

However, I didn't think that PVC tape was porous and suffers from UV embrittlement. After about 5 years, the tape does tend to be somewhat bittle. I'll try some Krylon and see what it does. I'm a bit concerned about adhesion to the shiny PVC tape and what will happen if the joint is flexed. I dunno about spraying Krylon when I'm on top of a tower. I'll let you know in about 5 years.

The no-fun part of semi-rigid coax and Heliax is connector sticker shock. Connectors are expensive. I've been finding used connectors, but that creates the problem of finding a replacement crush (compression) ring. Some vendors supply them seperately, others don't. I suspect the ones that don't, recognize that non-availability of these parts creates a market for new connectors. I've had fair luck using brass plumbing crush rings as a replacement crush ring. Buy oversized and cut to size with a Dremel cutoff tool or blow saw. Brass is really NOT a good idea for aluminum jacketed semi-rigid CATV coax, but it should survive if kept dry.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

348. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 08:29:44 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gkhjdn$5jm$1@news.albasani.net>
Source record: 18272

Jeff Liebermann wrote:

> ...

I am sure everyone has caught the "strange coincidence" that "photons at rest" are as impossible as "waves without motion."

Regards,
JS

349. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 10:20:43 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <7UZal.3207$MT3.533@bignews4.bellsouth.net>
Source record: 18273

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:cpbnm4he3f6b6uo73prsu1n9dgm5h64o4q@4ax.com...
> On Mon, 12 Jan 2009 07:37:34 -0600, Cecil Moore <nospam@w5dxp.com>
> wrote:
>
>>There were very few sunspots during the last "Little Ice Age"
>>from about 1645 to 1715. Might we be entering another one?
>
> Just one of many predictions for the demise of civilization:
> <http://en.wikipedia.org/wiki/Risks_to_civilization,_humans_and_planet_Earth>
>
> Personally, I think a random asteroid impact, will trigger mass
> retaliation by a paranoid military, guessing that it's a missile
> attack. The explosions will cause one of several super volcanoes to
> erupt, resulting in global famine and precipitate another ice age. the
> resultant earthquakes will precipitate tsunami's, pandemics, and 3rd
> party politics. After a few thousand years for the planet to recover,
> the dinosaurs will return, take over, and devour the survivors. The
> date of this event is probably one of the following:
> <http://www.bible.ca/pre-date-setters.htm>
> 2012 seems to be the consensus. Please mark your calendar.
>
> --
> Jeff Liebermann jeffl@cruzio.com
> 150 Felker St #D http://www.LearnByDestroying.com
> Santa Cruz CA 95060 http://802.11junk.com
> Skype: JeffLiebermann AE6KS 831-336-2558

Hey! I saw that movie too! 8>)

Ed, N2ECW

350. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 10:23:07 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <nWZal.3209$MT3.447@bignews4.bellsouth.net>
Source record: 18274

"Howard Eisenhauer" <howarde@REMOVECAPShfx.eastlink.ca> wrote in message
news:appnm49elnb51rp0oobk3rq2si7e5idp4v@4ax.com...
> On Mon, 12 Jan 2009 13:22:10 -0800, Jeff Liebermann <jeffl@cruzio.com>
> wrote:
>
>>On Mon, 12 Jan 2009 07:37:34 -0600, Cecil Moore <nospam@w5dxp.com>
>>wrote:
>>
>>>There were very few sunspots during the last "Little Ice Age"
>>>from about 1645 to 1715. Might we be entering another one?
>>
>>Just one of many predictions for the demise of civilization:
>><http://en.wikipedia.org/wiki/Risks_to_civilization,_humans_and_planet_Earth>
>>
>>Personally, I think a random asteroid impact, will trigger mass
>>retaliation by a paranoid military, guessing that it's a missile
>>attack. The explosions will cause one of several super volcanoes to
>>erupt, resulting in global famine and precipitate another ice age. the
>>resultant earthquakes will precipitate tsunami's, pandemics, and 3rd
>>party politics. After a few thousand years for the planet to recover,
>>the dinosaurs will return, take over, and devour the survivors. The
>>date of this event is probably one of the following:
>><http://www.bible.ca/pre-date-setters.htm>
>>2012 seems to be the consensus. Please mark your calendar.
>
>
> Just so long as dogs and cats don't start living together.
>
> H.

Yeah, that and the appearance of full bodied vaporous apparitions.

Ed, N2ECW

351. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 12:15:42 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <OB%al.18278$ZP4.12682@nlpi067.nbdc.sbc.com>
Source record: 18275

John Smith wrote:
> I am sure everyone has caught the "strange coincidence" that "photons at
> rest" are as impossible as "waves without motion."

Zero rest mass plus zero velocity would seem to equal nada.
--
73, Cecil http://www.w5dxp.com
"According to the general theory of relativity,
space without ether is unthinkable." Albert Einstein

352. Re: Photons

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 12:21:05 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <yE%al.3378$G24.181@bignews6.bellsouth.net>
Source record: 18276

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:OB%al.18278$ZP4.12682@nlpi067.nbdc.sbc.com...
> John Smith wrote:
>> I am sure everyone has caught the "strange coincidence" that "photons at
>> rest" are as impossible as "waves without motion."
>
> Zero rest mass plus zero velocity would seem to equal nada.
> --
> 73, Cecil http://www.w5dxp.com
> "According to the general theory of relativity,
> space without ether is unthinkable." Albert Einstein

Gee, isn't that what I said in a post not too long ago? 8>)

Ed, N2ECW

353. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 12:26:12 UTC
From: "Larry Gauthier (K8UT)" <MyCallsign@ARRL.NET>
Message-ID: <OL%al.48376$%o3.33509@newsfe02.iad>
Source record: 18277

Peter,

> I have heard that vertical antennas are more susceptible to noise!
I live in a residential area with a moderate amount of man-made QRN. My antenna "farm" (which is more of a small garden ;-) includes horizontal dipoles for 80 and 160 meters, and verticals on 40, 80 and 160. Using a remote antenna switch, I can quickly select antenna orientation and easily compare signal strength and QRN levels.

For signal strength, the horizontals are superior under 500 miles, but after that the verticals kick in and are almost-always better at DX distances. In fact, even IF the signal strength of DX stations were equal on both, the fact that the verticals attenuate the local stations by over 20db is enough of a selling point.

For QRN, I think the answer is like real estate: location, location, location. My verticals are at the rear of the property and farthest away from power lines and AC service to the house. The dipoles extend into the front yard and are more susceptible to AC line noise. Although I also expected the verticals to be "noisier", due to locations the dipoles are a little - but barely - noisier than the verticals.

Hope this explanation helps,
--
-larry
K8UT
"Peter" <colleenpeter@westnet.com.au> wrote in message
news:gLednbZG6uoEqPbUnZ2dnUVZ8rGdnZ2d@westnet.com.au...
> I'm proposing to build a new multi-band HF antenna. Previously I used
> simple relatively low (8mtr) dipole (28mtr total length) feed with ladder
> line and matched with a Z-Match tuner. Worked ok, but was useless for DX.
> My proposed antenna is to be vertical (7mtr radiator) to be used on bands
> from 10mtr to 30mtr.
> I have heard that vertical antennas are more susceptible to noise!
>
> I'm keen to hear this groups view on the noise issue and generally how
> verticals are regarded as a DX antenna. Also keen to hear of personal
> experiences with vertical antennas on HF.
>
> Regards
>
> Peter
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm
>

354. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 12:33:31 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1O%al.8676$8_3.4246@flpi147.ffdc.sbc.com>
Source record: 18278

Larry Gauthier (K8UT) wrote:
> My verticals are at the rear of the property and farthest away
> from power lines and AC service to the house. The dipoles extend into the
> front yard and are more susceptible to AC line noise. Although I also
> expected the verticals to be "noisier", due to locations the dipoles are a
> little - but barely - noisier than the verticals.

It certainly depends upon location. At my previous QTH,
the horizontal dipole was, on the average, 2 S-units
quieter than the 40m vertical. I tracked the noise to
a 30 foot ground wire running down a power pole.
--
73, Cecil http://www.w5dxp.com

355. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 14:06:28 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <yMGdnTgaUYJ5AvHUnZ2dnUVZ8tfinZ2d@westnet.com.au>
Source record: 18279

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:10%al.8676$8_3.4246@flpi147.ffdc.sbc.com...
> Larry Gauthier (K8UT) wrote:
>> My verticals are at the rear of the property and farthest away from power
>> lines and AC service to the house. The dipoles extend into the front yard
>> and are more susceptible to AC line noise. Although I also expected the
>> verticals to be "noisier", due to locations the dipoles are a little -
>> but barely - noisier than the verticals.
>
> It certainly depends upon location. At my previous QTH,
> the horizontal dipole was, on the average, 2 S-units
> quieter than the 40m vertical. I tracked the noise to
> a 30 foot ground wire running down a power pole.
> --
> 73, Cecil http://www.w5dxp.com

Thanks for the comments, which confirms most of what beleive was the case.

The QTH is Northam in Western Australia, about 80km east from Perth. All
other major population centres are DX.

The nearest distribution transformer is about 250metre away as is the 22kV
HV feeder with only 240/415V low voltage in my street, therefore noise
should be low from this source.

The only thing to do is build it see!

Cheers
--
Peter VK6YSF

356. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 17:12:07 UTC
From: Michael <micoder@sbcglobal.net>
Message-ID: <GX3bl.635$QB1.247@fe01.news.easynews.com>
Source record: 18280

Cecil,

Please tell me any more information you may have about the ground wire running down the power pole. I did the exact same thing here. I found most of my noise was being generated by this ground wire 3 blocks from my house. Were you able to do anything about it?

Michael

Cecil Moore wrote:
> Larry Gauthier (K8UT) wrote:
>> My verticals are at the rear of the property and farthest away from
>> power lines and AC service to the house. The dipoles extend into the
>> front yard and are more susceptible to AC line noise. Although I also
>> expected the verticals to be "noisier", due to locations the dipoles
>> are a little - but barely - noisier than the verticals.
>
> It certainly depends upon location. At my previous QTH,
> the horizontal dipole was, on the average, 2 S-units
> quieter than the 40m vertical. I tracked the noise to
> a 30 foot ground wire running down a power pole.

357. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 17:28:25 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <39338d28-2fb7-480a-977b-ef8d196458b5@v39g2000pro.googlegroups.com>
Source record: 18281
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave
Body handling: HTML body converted to readable text

On Jan 1, 8:34 pm, "Bob Campbell" wrote:
> "JIMMIE" wrote in message
>
> news:8b85620a-6fdd-43d8-9cf2-65862babc204@n21g2000vba.googlegroups.com...
>
> >Nothing wrong with PoCo oil. They havent used PCBs in years. We use
> >the same stuff at work made by Shell . Its just mineral oil with a few
> >additives.
>
> That's good to know.

I have a 200 watt air cooled dummy load made of 2 watt resistors. I
was curious as to how much power it could safley disipate if placed in
a gallon container of mineral oil. It seems to handle 200 watts
continuously with just a muffin fan on it.

Jimmie

358. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 19:25:20 UTC
From: kb9rqz@yahoo.com
Message-ID: <vkqpm416pco7qhj6v6li4vmgicq4eesi6m@4ax.com>
Source record: 18282
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

359. Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 19:36:36 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <79256191-52fb-4214-b16a-fe49ffac8205@v18g2000pro.googlegroups.com>
Source record: 18283

What diametric ratio must a fractional wave length radiator be to
allow contrary current flow thru it's center. ?
Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
0.00001,...?
Regards
Art

360. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 20:02:33 UTC
From: nm5k@wt.net
Message-ID: <8a9111ad-1285-4201-a623-400f6dc644a1@q30g2000prq.googlegroups.com>
Source record: 18284

On Jan 13, 11:12 am, Michael <mico...@sbcglobal.net> wrote:

>
> > It certainly depends upon location. At my previous QTH,
> > the horizontal dipole was, on the average, 2 S-units
> > quieter than the 40m vertical. I tracked the noise to
> > a 30 foot ground wire running down a power pole.

I would think that means a bad connection somewhere near
that point. Could be the wire connection to ground itself,
or a bad part somewhere near that area, and the ground
wire was just acting as an antenna extension to the bad
part. Many parts can develop bad or leaky connections and
start to cause noise. It was a bad end connector once when
I had to call the power co.
Make sure the ground wire is actually connected to ground
well, and if it still makes noise, try banging the power pole with a
sledgehammer while listening on a portable radio.
If the noise changes, it's fairly close in that area.
Or if you use a radio with a directional antenna, you might be
able to get fairly close.
Once you get that close, nothing to do except bug the power
company.

361. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 20:44:48 UTC
From: Dave <noone@nowhere.com>
Message-ID: <437bl.33$eX3.29@nwrddc01.gnilink.net>
Source record: 18285

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:79256191-52fb-4214-b16a-fe49ffac8205@v18g2000pro.googlegroups.com...
>
>
> What diametric ratio must a fractional wave length radiator be to
> allow contrary current flow thru it's center. ?
> Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
> 0.00001,...?
> Regards
> Art

infinite

362. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 21:02:37 UTC
From: Frank <ve6cb@spamfree.telus.net>
Message-ID: <Nj7bl.4772$PH1.3718@edtnps82>
Source record: 18286

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:79256191-52fb-4214-b16a-fe49ffac8205@v18g2000pro.googlegroups.com...
>
>
> What diametric ratio must a fractional wave length radiator be to
> allow contrary current flow thru it's center. ?
> Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
> 0.00001,...?
> Regards
> Art

Art, Did you look at my link below? What does "diametric" mean?

Ansoft's (www.ansoft.com) "Maxwell" is a "Finite Element Modeling"
(FEM) program which, among other things, can accurately produce
a graphical representation of the current distribution in a cylindrical
conductor. See examples at:
http://www3.telus.net/nighttrainexpress/skin%20depth.htm
These graphs are reproduced from an article in the November/December
issue of QEX magazine, pp20 - 29, by Rudy Severns, N6LF.

73,

Frank

363. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 22:32:29 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com>
Source record: 18287

On Jan 13, 3:02 pm, "Frank" <ve...@spamfree.telus.net> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:79256191-52fb-4214-b16a-fe49ffac8205@v18g2000pro.googlegroups.com...
>
>
>
> > What diametric ratio must a fractional wave length radiator be to
> > allow contrary current flow thru it's center. ?
> > Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
> > 0.00001,...?
> > Regards
> > Art
>
> Art, Did you look at my link below? What does "diametric" mean?
>
> Ansoft's (www.ansoft.com) "Maxwell" is a "Finite Element Modeling"
> (FEM) program which, among other things, can accurately produce
> a graphical representation of the current distribution in a cylindrical
> conductor. See examples at:http://www3.telus.net/nighttrainexpress/skin%20depth.htm
> These graphs are reproduced from an article in the November/December
> issue of QEX magazine, pp20 - 29, by Rudy Severns, N6LF.
>
> 73,
>
> Frank

No, but I will now. First I will look up the word "finite" and
"finite"
Just now going out for dinner
Re diametrics, I was referring to the ratio of diameter with respect
to wavelength
(I am assuming that skin depthg is not limitless.)
Best regards
Art

364. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 22:57:28 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <gkj68p$b85q$1@tr22n12.aset.psu.edu>
Source record: 18288
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave
Body handling: HTML body converted to readable text

JIMMIE wrote:
> On Jan 1, 8:34 pm, "Bob Campbell" wrote:
>> "JIMMIE" wrote in message
>>
>> news:8b85620a-6fdd-43d8-9cf2-65862babc204@n21g2000vba.googlegroups.com...
>>
>>> Nothing wrong with PoCo oil. They havent used PCBs in years. We use
>>> the same stuff at work made by Shell . Its just mineral oil with a few
>>> additives.
>> That's good to know.
>
> I have a 200 watt air cooled dummy load made of 2 watt resistors. I
> was curious as to how much power it could safley disipate if placed in
> a gallon container of mineral oil. It seems to handle 200 watts
> continuously with just a muffin fan on it.
>
> Jimmie

Not an easy question to answer. allot depends on how the thing is made.
How much power it can handle is controlled by how fast the heat can be
moved away. It doesn't matter if it's oil or air. In oil the speed is
set by how obstructed the path the hot oil would need to travel to get
away from the part thats making the heat. I think the resistor in a
cantenna in free air is only good for about 50 watts but it designed for
the smooth passage of the oil around the resistor. I don't think that
your mass of 2 watt resistors will allow the oil to pass freely enough
to get to a KW for vary long. If you used a pump to move the oil it
would work better in the same way that a fan works.

John Passaneau

365. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-13 23:00:30 UTC
From: Dave <noone@nowhere.com>
Message-ID: <i29bl.66$eX3.14@nwrddc01.gnilink.net>
Source record: 18289

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com...

>(I am assuming that skin depthg is not limitless.)

of course it is limitless, it is an exponential function so it never goes to
zero. the so called 'skin depth' is only the point where the current has
dropped to 1/e or about 37% of the surface value, still a significant
current.

366. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 00:22:22 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gkjbbt$j58$1@news.service.uci.edu>
Source record: 18290

Dave wrote:
>
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com...
>
>> (I am assuming that skin depthg is not limitless.)
>
> of course it is limitless, it is an exponential function so it never
> goes to zero. the so called 'skin depth' is only the point where the
> current has dropped to 1/e or about 37% of the surface value, still a
> significant current.

The plots at the link Frank provided show current going rather abruptly
to zero - even negative ("contrary"?) in some cases. I wouldn't presume
to know whether it is modeled correctly.

ac6xg

367. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 01:25:42 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <452167e1-c449-4da3-b8ea-9c34705b2f23@s20g2000yqh.googlegroups.com>
Source record: 18291

On Jan 13, 5:00 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com...
>
> >(I am assuming that skin depthg is not limitless.)
>
> of course it is limitless, it is an exponential function so it never goes to
> zero. the so called 'skin depth' is only the point where the current has
> dropped to 1/e or about 37% of the surface value, still a significant
> current.

Yes, skin depth is measured or referred to as 1/e which incorporates
decay.
I am totally unaware how" decay" comes into the picture or what
happens with respect to density
Now I question the term "decay" in this instance as it is the
displacement field
that creats resistance ala eddy current which I allude to as the
levitating force
on a unbound electron. At the moment I cannot see how a unbound
electro within an empty shell
can be absorbed by a tight matrics consisting of bound electrons or
when reaching the inside of a tubular conductor fall off the inner
surface! The morer I get into the radiation subject the more I begin
to question things. The idea that a circulating current /field is
limitless in depth blows my mind.
Art

368. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 01:33:04 UTC
From: JB <nospam@goofball.net>
Message-ID: <khbbl.85$eX3.49@nwrddc01.gnilink.net>
Source record: 18292

People who exploit children in warfare are COWARDS!

369. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 02:01:22 UTC
From: JB <nospam@goofball.net>
Message-ID: <SHbbl.66$Dx.12@nwrddc02.gnilink.net>
Source record: 18293

> How much power could it hold at HF and also uhf/vhf
> frequencies? Assuming a modern day high quality N connector??
>
> The other thing i pondered is that it seems the don't make
> Pl259/so239 connectors for hardline, so what do guys use typically for
> higher power DIN?

Good to Gigs at 5kw. I recall a test of Pl259/SO239 connection vs. N found the PL259/SO239 to fail from overheating due to the internal mismatch with as little as 500 watts at UHF frequencies.

I don't recall the Maximum at HF, but High SWR is a consideration. Best to use open wire feeders in that case.

N is a 50 ohm connector, but the PL259/2O239 is a stepped transistion and isn't even specified for impedance.

370. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 02:37:24 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4e0241a2-a7d1-4d93-bf02-680dfca83c25@20g2000yqt.googlegroups.com>
Source record: 18294

On Jan 13, 7:33 pm, "JB" <nos...@goofball.net> wrote:
> People who exploit children in warfare are COWARDS!

Maybe ! So should U.S. arms be supplied
when they was used kill the children any way?
Now we have phosphorus and we know what happened in the East end of
London
Now all those that are in the killing fields can resort to gas as in
the 1st world war,
especially when the U.S. supplied personel bombs are being dropped
contrary
to prior restrictions made. Perhaps if we started again at the
begining where the settlement area was determined by the UN in the
same way the Allies did after the second world war israelis and
arabscould live in the way Germany does now. We cannot continue to be
like Gulliver who was rendered impotent by the little people while he
slept such that the killing field become expanded once again.If the
youth who stood in front of a chinese tank in Tinnerman square did the
same thing in Gaza the tank would continue to roll over him as if he
was a member of the U.N.
It would be stupid, not cowardly, to stay imobile in front of a tank
or a bulldozer or not to seek shelter in the absence of anti aircraft
missiles to resist the impact of bombs and phoshorous.
Londoners lived in shelters and the underground railroad when under
the same conditions, so were they cowards? The Japanese fought to the
death standing their ground in front of the allied onslaught so should
we not call them heroes? When the israelis threw themselves over the
mountain top rather than fight the enemy what should we call them
now.? To save a life in a critical moment man is capable of anything,
including assasination or eating human remains when being starved, so
how can one judge another human from a distance so far?
Art

371. Re: N power connector rating? [Hardline Connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 03:34:48 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <p3dbl.66373$ln7.55285@newsfe04.iad>
Source record: 18295

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:na9om41l6bvtm5etjb5dbe1rojbkd9gacg@4ax.com...
> On Mon, 12 Jan 2009 21:57:52 -0500, "NoSPAM" <unknown@nospam.org>
> wrote:
>
>>Also I would like to add that the Krylon sprayed over the vinyl tape is
>>very important. Being an acrylic, clear Krylon protects the vinyl from
>>ultraviolet damage.
>> 73, Barry WA4VZQ
>
> I've been waterproofing RF connectors using 0.5" wide PTFE tape to
> embalm the connector. The PTFE will eventually cold flow, forming a
> water tight seal. The PTFE also prevents capillary action from
> sucking water into the connector through the gaps, such as along the
> outer knurling in UHF connectors. On top of that, goes a layer of 3M
> Scotch 33+ electrical tape, which is claimed to be UV resistant. The
> PTFE tape does the waterproofing. The outer PVC tape just holds
> everything in place.
>
> I've done some crude life tests on my roof at 2 year and 5 year
> intervals. I found that when unwrapped, the connectors are a shiny
> as they were when new.
>
> However, I didn't think that PVC tape was porous and suffers from UV
> embrittlement. After about 5 years, the tape does tend to be somewhat
> bittle. I'll try some Krylon and see what it does. I'm a bit
> concerned about adhesion to the shiny PVC tape and what will happen if
> the joint is flexed. I dunno about spraying Krylon when I'm on top of
> a tower. I'll let you know in about 5 years.

The issue is a little more complicated than simple UV resistance and
porosity. To begin with, pure PVC has a very poor UV resistance. But more
importantly, it is brittle and it needs a plasticizer to make it flexible.
The most common plasticizer is DOP [dioctal phthalate, or more correctly
2-ethylhexyl phthalate]. but this can leach out of the PVC leaving it stiff
and more brittle.. To achieve better low temperature flexibility, DOA
{2-ethylhexyl adipate} is often used. Vinyl tape has to be very flexible
and stretchy even at low temperatures, so high levels of plasticizers are
needed. DOA is usually used, either alone or in combination with DOP. DOA
tends to leach out faster than DOP. It also has poorer UV resistance than
DOP which is poor to start with. There are far better performing
plasticizers than either of these (made by reacting adipic or phthalic acid
with polyols), but while they offer superior UV resistance and leach out
much more slowly, they are rather expensive. Loading the PVC with carbon

black, an excellent absorber of ultraviolet (and visible) light, helps too, but the amount of carbon black that can be used on an electrical tape is limited by the need for good dielectric strength. Spraying the tape with Krylonï¿½ acrylic paints provides both UV resistance and a slowing of the loss of plasticizer.

I would not worry about the PTFE (Teflontï¿½) tape. While very resistant to liquid water, water vapor can pass through the tape easily and condense on cold metal parts of the connector. PTFE tape is porous, but the surface tension of water prevents it from passing through the pores. {Water vapor, too, is a smaller molecule than oxygen or nitrogen.} Several layers of electrical tape, wound in opposite directions, and sprayed with Krylon survived at least 15 years in one of my outdoor applications, and when removed, the coaxial connectors were shiny too.

In case anyone is wondering about my expertise here, I worked in the research Laboratories of Eastman Chemical Company, who made a number of plasticizers, and W. L. Gore & Associates, who started by making PTFE tape. The breathability properties of Gore-Tex while still shedding water are a result of controlled pore sizes in PTFE.

73, Dr. Barry L. Ornitz WA4VZQ

372. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 03:37:59 UTC
From: Jim-NN7K
Message-ID: <g6dbl.8794$hc1.6944@flpi150.ffdc.sbc.com>
Source record: 18296

JB wrote:
>> How much power could it hold at HF and also uhf/vhf
>> frequencies? Assuming a modern day high quality N connector??
>>
>> The other thing i pondered is that it seems the don't make
>> Pl259/so239 connectors for hardline, so what do guys use typically for
>> higher power DIN?
>
> Good to Gigs at 5kw. I recall a test of Pl259/SO239 connection vs. N found
> the PL259/SO239 to fail from overheating due to the internal mismatch with
> as little as 500 watts at UHF frequencies.
>
> I don't recall the Maximum at HF, but High SWR is a consideration. Best to
> use open wire feeders in that case.
>
> N is a 50 ohm connector, but the PL259/2O239 is a stepped transistion and
> isn't even specified for impedance.
>

JB sez "N is a 50 ohm connector, but the PL259/2O239 is a stepped
transistion and isn't even specified for impedance."

Actually, think you will find that N connectors, as well as BNC
connectors come in Several Impedences! (Not one size fits all).

Had surplus ones with center pins fit 90 ohm, and 75 ohm (no go on 50
ohm coax)! Be sure to check connector specs! Jim NN7K

373. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 03:46:10 UTC
From: Jim-NN7K
Message-ID: <Yddbl.1948$%54.1321@nlpi070.nbdc.sbc.com>
Source record: 18297
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave
Body handling: HTML body converted to readable text

One other thing might check out, is the Salt Water Dummy Loads
(on several web sites). One mearly uses (can, Jar with lid),
and with metal plates attached to coax connector, filled
with salt water - Fill with water, then with ohm meter , add
Salt until the brine hits 50 ohms! Tho, don't know how high
frequency it is reliable to, should work to at least 50 MHz.
Jim NN7K

John Passaneau wrote:
> JIMMIE wrote:
>> On Jan 1, 8:34 pm, "Bob Campbell" wrote:
>>> "JIMMIE" wrote in message
>>>
>>> news:8b85620a-6fdd-43d8-9cf2-65862babc204@n21g2000vba.googlegroups.com...
>>>
>>>
>>>> Nothing wrong with PoCo oil. They havent used PCBs in years. We use
>>>> the same stuff at work made by Shell . Its just mineral oil with a few
>>>> additives.
>>> That's good to know.
>>
>> I have a 200 watt air cooled dummy load made of 2 watt resistors. I
>> was curious as to how much power it could safley disipate if placed in
>> a gallon container of mineral oil. It seems to handle 200 watts
>> continuously with just a muffin fan on it.
>>
>> Jimmie
>
> Not an easy question to answer. allot depends on how the thing is made.
> How much power it can handle is controlled by how fast the heat can be
> moved away. It doesn't matter if it's oil or air. In oil the speed is
> set by how obstructed the path the hot oil would need to travel to get
> away from the part thats making the heat. I think the resistor in a
> cantenna in free air is only good for about 50 watts but it designed for
> the smooth passage of the oil around the resistor. I don't think that
> your mass of 2 watt resistors will allow the oil to pass freely enough
> to get to a KW for vary long. If you used a pump to move the oil it
> would work better in the same way that a fan works.
>
> John Passaneau

374. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 04:19:49 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <FJdbl.4831$PH1.4371@edtnps82>
Source record: 18298

> The plots at the link Frank provided show current going rather abruptly
> to zero - even negative ("contrary"?) in some cases. I wouldn't presume
> to know whether it is modeled correctly.
>
> ac6xg

Having some expience of Ansoft's FEM modeling software I feel the
results are highly credible. Also Rudy Severns publishing list is pretty
impressive:
http://www.snubberdesign.com/Springtime_Enterprises.html

73,

Frank (VE6CB)

375. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 04:51:51 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6879a276-703b-48fc-9f6e-1ef2767d36b9@i18g2000prf.googlegroups.com>
Source record: 18299

On Jan 13, 10:19 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> > The plots at the link Frank provided show current going rather abruptly
> > to zero - even negative ("contrary"?) in some cases. I wouldn't presume
> > to know whether it is modeled correctly.
>
> > ac6xg
>
> Having some expience of Ansoft's FEM modeling software I feel the
> results are highly credible. Also Rudy Severns publishing list is pretty
> impressive:http://www.snubberdesign.com/Springtime_Enterprises.html
>
> 73,
>
> Frank (VE6CB)

Frank, I am not saying he is not credible but he is part of the older
generation and there was not enough detail supplied to determine
whether I accept it on trust. When the antenna programs
throw out the yagi in favor of arrays or radiators in equilibrium form
should we throw it out in favor of conforming with the past? Yes,the
article is in line with what the older generation has lived with
but the new generation have more tools and information than the
present dying generation.
Problem with present day authors is up against the "publish or
perish" format regure references to prior papers in quantity to
provide legitamacy to any new papers, without which they will have a
hard time publishing. Greasing the wheels of fellow contributers or
white paper authors is much preferable to declaring those who judge
are in error. Frank, a lot of the theory of antennas is either based
on vanishingly thin radiators without regard to room required for eddy
field and in some cases with transmission lines where it is possible
to get three different current flows together with a closed circuit,
yet we are now protecting the idea of non closed circuits where the
current flow
is on top of each other. No wonder it is said over the last 100 years
that we don't fully understand radiation especially when it takes over
70 posts on how to make a cantenna from a panel of experts
Best regards
Art

376. Re: N power connector rating? [Hardline Connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 05:06:05 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <8jsqm4dvr37gnmjfueiqvcg0m9erjrckf5@4ax.com>
Source record: 18300

On Tue, 13 Jan 2009 22:34:48 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>The breathability properties of Gore-Tex while still shedding water are a
>result of controlled pore sizes in PTFE.

Hi Barry,

How come my Gore-tex jacket (20 years old?) leaks like a sieve?

73's
Richard Clark, KB7QHC

377. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 05:23:36 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <sFebl.4848$PH1.3686@edtnps82>
Source record: 18201

>Frank, I am not saying he is not credible but he is part of the older
>generation and there was not enough detail supplied to determine
>whether I accept it on trust. When the antenna programs
>throw out the yagi in favor of arrays or radiators in equilibrium form
>should we throw it out in favor of conforming with the past? Yes,the
>article is in line with what the older generation has lived with
>but the new generation have more tools and information than the
>present dying generation.
>Problem with present day authors is up against the "publish or
>perish" format regure references to prior papers in quantity to
>provide legitamacy to any new papers, without which they will have a
>hard time publishing. Greasing the wheels of fellow contributers or
>white paper authors is much preferable to declaring those who judge
>are in error. Frank, a lot of the theory of antennas is either based
>on vanishingly thin radiators without regard to room required for eddy
>field and in some cases with transmission lines where it is possible
>to get three different current flows together with a closed circuit,
>yet we are now protecting the idea of non closed circuits where the
>current flow
>is on top of each other. No wonder it is said over the last 100 years
>that we don't fully understand radiation especially when it takes over
>70 posts on how to make a cantenna from a panel of experts
>Best regards
>Art

I would hardly call the tools used in this simulation "Older".
Ansoft produces some of the most sophisticated, and up to
date FEM software available. I have seen Ansoft's HFSS
accurately model current flow through PCB vias, around an end-
launch connector at 20 GHz. CST Microwave also
produces high end FEM software. All the models are
done in full 3 D, with actual physical dimensions. This
FEM software started to apear about 10 years ago and
costs in the range of $40,000 to $50,000, with a $10,000
per year maintenance fee.

"Publish or perish" is usually applied to university positions.
It is doubtfull that too many people are able to pubish in
the Proceedings of the IEEE, or one of the IEEE Society
Transactions.

378. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 06:07:25 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <50db888d-255f-443e-b3f1-a622e0c1aa8b@s9g2000prg.googlegroups.com>
Source record: 18202

On Jan 13, 11:23 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> >Frank, I am not saying he is not credible but he is part of the older
> >generation and there was not enough detail supplied to determine
> >whether I accept it on trust. When the antenna programs
> >throw out the yagi in favor of arrays or radiators in equilibrium form
> >should we throw it out in favor of conforming with the past? Yes,the
> >article is in line with what the older generation has lived with
> >but the new generation have more tools and information than the
> >present dying generation.
> >Problem with present day authors is up against the "publish or
> >perish" format regure references to prior papers in quantity to
> >provide legitamacy to any new papers, without which they will have a
> >hard time publishing. Greasing the wheels of fellow contributers or
> >white paper authors is much preferable to declaring those who judge
> >are in error. Frank, a lot of the theory of antennas is either based
> >on vanishingly thin radiators without regard to room required for eddy
> >field and in some cases with transmission lines where it is possible
> >to get three different current flows together with a closed circuit,
> >yet we are now protecting the idea of non closed circuits where the
> >current flow
> >is on top of each other. No wonder it is said over the last 100 years
> >that we don't fully understand radiation especially when it takes over
> >70 posts on how to make a cantenna from a panel of experts
> >Best regards
> >Art
>
> I would hardly call the tools used in this simulation "Older".
> Ansoft produces some of the most sophisticated, and up to
> date FEM software available. I have seen Ansoft's HFSS
> accurately model current flow through PCB vias, around an end-
> launch connector at 20 GHz. CST Microwave also
> produces high end FEM software. All the models are
> done in full 3 D, with actual physical dimensions. This
> FEM software started to apear about 10 years ago and
> costs in the range of $40,000 to $50,000, with a $10,000
> per year maintenance fee.
>
> "Publish or perish" is usually applied to university positions.
> It is doubtfull that too many people are able to pubish in
> the Proceedings of the IEEE, or one of the IEEE Society
> Transactions.

Frank,
It has not yet been proven that current does not flow thru the center

of a radiator.
I see it as a manufactured statement to satisfy the idea of an uncompleted circuit where the current
passes over or thru and in a different direction than the same current that generates its existence !
It does all this where the books state it is a series circuit where the paths taken by the current are not identical. Why manufacture all these happenings to prove what is just a theory, while at the same time destroying the reasoning of a closed circuit without an explanation how such actions
creat radiation, especially when it is admitted that radiation is not fully understood?
I think the time as come to review again from the time of Maxwell and build up afresh in line with
a century of findings and then re evaluate.
A good start would be to evaluate why antenna programs based on Maxwells laws provide solutions based on equilibrium while discarding all other designs. Saying that it can't be! Because" "if true it would have been discovered a 100 years ago" while silently adding "all is known about antennas and the patent offices should be closed"
Regards
Art

379. Re: N power connector rating? [Gore-Tex]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 06:19:31 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <Ntfbl.15450$Nq5.12522@newsfe24.iad>
Source record: 18203

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:8jsqm4dvr37gnmjfueiqvcg0m9erjrckf5@4ax.com...
> On Tue, 13 Jan 2009 22:34:48 -0500, "NoSPAM" <unknown@nospam.org>
> wrote:
>
>>The breathability properties of Gore-Tex while still shedding water are a
>>result of controlled pore sizes in PTFE.
>
> Hi Barry,
>
> How come my Gore-tex jacket (20 years old?) leaks like a sieve?
>
> 73's
> Richard Clark, KB7QHC

Most likely it leaks at the seams. Gore sells a kit containing seam tape patches with the proper adhesive to recover those seams. The loss of "breathability" is due to the fact that the PTFE can adsorb skin oils, grease, etc. This requires cleaning to remove the oils. You might want to visit http://www.gore-tex.com/remote/Satellite/content/care-center for more information. The outer fabric outer layer may occasionally need an application of DWR (durable water repellent). It is also discussed at the same web page.

73, Barry WA4VZQ

380. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 08:46:59 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <AJvOnNHDaabJFAXJ@ifwtech.co.uk>
Source record: 18204

Jim Kelley wrote:
>Dave wrote:
>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>>news:e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com.>>..
>>
>>> (I am assuming that skin depthg is not limitless.)
>> of course it is limitless, it is an exponential function so it never
>>goes to zero. the so called 'skin depth' is only the point where the
>>current has dropped to 1/e or about 37% of the surface value, still a
>>significant current.
>
>The plots at the link Frank provided show current going rather abruptly
>to zero - even negative ("contrary"?) in some cases. I wouldn't
>presume to know whether it is modeled correctly.
>

Decrease of RF current with depth below the surface of a conductor is only a true exponential if the available conductor depth is infinite. In the modeled situations where there is 'competition' from a skin effect on the opposite side of the conductor, the solution is a Bessel function which does pass through zero and reverse direction at certain depths.

In other words, the model is behaving as expected.

Programs such as NEC and Maxwell are not released until they have gone through a very detailed process of checking and validation. The first step is to check against special cases that can be independently solved by analytical methods (in other words, pure math). The work isn't complete until all the results agree within close margins, and the reasons for any differences are fully understood.

By the time we amateurs come to hear about these programs, they have already been thoroughly validated by developers and professional users. That doesn't make them immune from further criticism... but only by people who have done the work to earn that right.

--

73 from Ian GM3SEK
http://www.ifwtech.co.uk/g3sek

381. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 16:13:49 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e7b23fa1-7d48-46e7-a015-3859ce3a98f2@w39g2000prb.googlegroups.com>
Source record: 18205

On Jan 14, 2:46 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> Jim Kelley wrote:
> >Dave wrote:
> >> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
> >>news:e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com.>>..
>
> >>> (I am assuming that skin depthg is not limitless.)
> >> of course it is limitless, it is an exponential function so it never
> >>goes to zero. the so called 'skin depth' is only the point where the
> >>current has dropped to 1/e or about 37% of the surface value, still a
> >>significant current.
>
> >The plots at the link Frank provided show current going rather abruptly
> >to zero - even negative ("contrary"?) in some cases. I wouldn't
> >presume to know whether it is modeled correctly.
>
> Decrease of RF current with depth below the surface of a conductor is
> only a true exponential if the available conductor depth is infinite.
> In the modeled situations where there is 'competition' from a skin
> effect on the opposite side of the conductor, the solution is a Bessel
> function which does pass through zero and reverse direction at certain
> depths.
>
> In other words, the model is behaving as expected.
>
> Programs such as NEC and Maxwell are not released until they have gone
> through a very detailed process of checking and validation. The first
> step is to check against special cases that can be independently solved
> by analytical methods (in other words, pure math). The work isn't
> complete until all the results agree within close margins, and the
> reasons for any differences are fully understood.
>
> By the time we amateurs come to hear about these programs, they have
> already been thoroughly validated by developers and professional users.
> That doesn't make them immune from further criticism... but only by
> people who have done the work to earn that right.
>
> --
>
> 73 from Ian GM3SEKhttp://www.ifwtech.co.uk/g3sek

So the developers know why the programs in the final analysis
gyrate towards radiators and arrays in equilibrium?
Do you know what that reason is?

Present thinking, I thought, suggest that the skin depth is quite thin when used
for non destructive testing of materials. Is that also known by the developers?
If the providing current is on the surface of a radiator then why does the resulting eddy current
penetrate to the limits? Seems a sort of scrambled assumptions at play here!

382. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 16:39:34 UTC
From: JB <nospam@goofball.net>
Message-ID: <azobl.217$eX3.135@nwrddc01.gnilink.net>
Source record: 18206

> What diametric ratio must a fractional wave length radiator be to
> allow contrary current flow thru it's center. ?
> Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
> 0.00001,...?
> Regards
> Art

That depends on your return on investment in cost and labor, and the application. Since the skin effect applies, thankfully, the flow through the center is less of an issue.

Should we use tubular elements?

Or as some have done, use Silver or Copper plated steel wire or rod? At some frequencies, this is profitable.

Why should we "allow contrary current flow through it's center." as opposed to promoting the skin effect, since current flow through the center does not radiate? Like eddy currents in a transformer are just loss.

383. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 17:04:42 UTC
From: nm5k@wt.net
Message-ID: <8c6edd4e-0dd5-4f0f-a092-61d186a4eab3@r40g2000yqj.googlegroups.com>
Source record: 18207

On Jan 14, 10:13 am, Art Unwin <ArthurUn...@gmail.com> wrote:

>
> So the developers know why the programs in the final analysis
> gyrate towards radiators and arrays in equilibrium?

I don't see how they could, being you won't describe how the
word "equilibrium" applies in such a case.

> Do you know what that reason is?

Being I have never seen an antenna modeling program gyrate,
whether towards or away from a radiator or array, I sure don't.

384. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 17:27:38 UTC
From: JB <nospam@goofball.net>
Message-ID: <egpbl.222$eX3.3@nwrddc01.gnilink.net>
Source record: 18208

Frank, I am not saying he is not credible but he is part of the older generation and there was not enough detail supplied to determine whether I accept it on trust. When the antenna programs throw out the yagi in favor of arrays or radiators in equilibrium form should we throw it out in favor of conforming with the past? Yes,the article is in line with what the older generation has lived with but the new generation have more tools and information than the present dying generation.
Problem with present day authors is up against the "publish or perish" format regure references to prior papers in quantity to provide legitamacy to any new papers, without which they will have a hard time publishing. Greasing the wheels of fellow contributers or white paper authors is much preferable to declaring those who judge are in error. Frank, a lot of the theory of antennas is either based on vanishingly thin radiators without regard to room required for eddy field and in some cases with transmission lines where it is possible to get three different current flows together with a closed circuit, yet we are now protecting the idea of non closed circuits where the current flow
is on top of each other. No wonder it is said over the last 100 years that we don't fully understand radiation especially when it takes over 70 posts on how to make a cantenna from a panel of experts
Best regards
Art

This is so amusing. Those who don't appreciate knowledge thus far, probably don't know it. Those who are desperately hoping for a revolution might just have a ulterior motive or agenda.

It is interesting to note though, that it takes a lot of PhD's to design something so that impoverished people (often children) can have a bowl of rice every day to build the technology. Also, the environmental disaster that is created by throwing away "gadgets" every 6 months to implement the latest technology. I wonder if the Liberal academic establishment is in touch with the environmental disaster they are creating so that we can all be enslaved to the global neural network.

The cantenna posts are amusing, in that no one even brought up the transition from the connector to the resistor element, or adequate thermal conductivity between the oil and the outside air. The biggest problems revolves around these issues. Starting with how long must the transition be to allow adequate oil convection flow. The answer to all this can be found with the high power Bird loads that have a smaller oil area but use large radiating fins, or better yet, A chip resistor array directly mounted to a large fin area.

385. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 17:49:25 UTC
From: JB <nospam@goofball.net>
Message-ID: <FApbl.143$Dx.8@nwrddc02.gnilink.net>
Source record: 18209

> JB sez "N is a 50 ohm connector, but the PL259/2O239 is a stepped
> transistion and isn't even specified for impedance."
>
> Actually, think you will find that N connectors, as well as BNC
> connectors come in Several Impedences! (Not one size fits all).
>
> Had surplus ones with center pins fit 90 ohm, and 75 ohm (no go on 50
> ohm coax)! Be sure to check connector specs! Jim NN7K

Excellent point! You usually need to get specific connectors for specific cable. Trying to get what you ordered is often the reason for surplus (or failure). There are so many ways to goof up a communication system these days. Come to think of it, there is far more to be considered for people to be able to see eye to eye.

For instance, there has always been a conflict over how much supervision should be required for the "man in the field".

386. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 17:54:12 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ab0c2a45-90fd-4fa3-934b-39e9461c6960@v42g2000yqv.googlegroups.com>
Source record: 18210

On Jan 14, 10:39 am, "JB" <nos...@goofball.net> wrote:
> > What diametric ratio must a fractional wave length radiator be to
> > allow contrary current flow thru it's center. ?
> > Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
> > 0.00001,...?
> > Regards
> > Art
>
> That depends on your return on investment in cost and labor, and the
> application. Since the skin effect applies, thankfully, the flow through
> the center is less of an issue.
>
> Should we use tubular elements?
>
> Or as some have done, use Silver or Copper plated steel wire or rod? At
> some frequencies, this is profitable.
>
> Why should we "allow contrary current flow through it's center." as opposed
> to promoting the skin effect, since current flow through the center does not
> radiate? Like eddy currents in a transformer are just loss.

Right JB.
If it didn't flow thru the center one could assume that it would
radiate. Thus
keeping the current flow on the outside allows us to use micro length
antennas
since radiation occurs all the time. Whow
If one sees the current flowing thru the center where the losses are
small then one can deduce
that radiation is conmensurate to length up to a maximum of one
wavelength.
By golly isn't that the same solution that the books advocate without
the invention of a circuit that flows when the circuit is abruptly
terminated.
Newton's laws advocate equilibrium as an absolute. Maxwell followed
this absolute when formulating his laws. Application of Gaussian law
of statics by using the eddict of equilibrium
confirms the laws of Maxwell. Antenna programs that are allowed to
follow the edicts of Maxwells laws again substantiate the edict of
equilibrium.
So with all of the above I am inclined to trust such computor programs
but NOT the atributions
supplied to explain the conditions that theories atribute to the
explanation of why agreement is shown with respect to equilibrium plus

the mathematics involved in all the above cases.
I do not know of any other accepted circuit in physics where a circuit is abruptly terminate and still meet the requirement of equilibrium.
When it is broadly agreed that radiation is not fully understood when following existing explanations I am inclined to question the theories

Note Antenna programs with optimizer allows the user to initially insert a design for a particular requirement and the program will make corrections to that design by the application of Maxwells laws to achieve the required object by a solution that is in equilibrium.
Programs WITHOUT an optimizer provides an answer based only on the metrics inserted and without correction
I.E insert a planar design and the results arrived at reflects the input only and not the array that completely follows Maxwell which provides for superior results which never is a planar design
Best regards
Art Unwin....KB9MZ.... xg (uk)
Now to shovel the snow wbhere it is very, very cold.

387. Re: transmission lines and SWR and fractional wave antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 18:08:12 UTC
From: richardharrison@webtv.net
Message-ID: <23614-496E2A0C-229@storefull-3172.bay.webtv.net>
Source record: 18212

richard Fry wrote:
"Art, the current distribution along even the shortest (fractional wavelength), constant OD radiator also is sinusoidal, etc."

Yes. One of the first things Maxwell noted of his equations is that they have the form of equations desceibing wave movements in water.

One of my (new to me) books on electromagnetics supports Art`s use of Gauss.
Stanley V. Marshall in "Electromagnetic Concepts & Applications" says:
"In most cases, it is much easier to evaluate the scalar field direction from which we can evaluate the electric field intensity than to find the electric field intensity directly. In cases of symmetrical charge distribution, using Gauss`s law to find the electric field intensity is still the simplest method, if we can find a Gaussian surface that will allow us to remove the field function from under the integral sign.

There are several ways to solve the same problem. Even if we use photons, all must give the same answer.

I appologize for disparaging Art`s methods.

Best regards, Richard Harrison, KB5WZI

388. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 18:09:25 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <xRpbl.4375$MT3.62@bignews4.bellsouth.net>
Source record: 18211

"JB" <nospam@goofball.net> wrote in message
news:egpbl.222$eX3.3@nwrddc01.gnilink.net...
>
> Frank, I am not saying he is not credible but he is part of the older
> generation and there was not enough detail supplied to determine
> whether I accept it on trust. When the antenna programs
> throw out the yagi in favor of arrays or radiators in equilibrium form
> should we throw it out in favor of conforming with the past? Yes,the
> article is in line with what the older generation has lived with
> but the new generation have more tools and information than the
> present dying generation.
> Problem with present day authors is up against the "publish or
> perish" format regure references to prior papers in quantity to
> provide legitamacy to any new papers, without which they will have a
> hard time publishing. Greasing the wheels of fellow contributers or
> white paper authors is much preferable to declaring those who judge
> are in error. Frank, a lot of the theory of antennas is either based
> on vanishingly thin radiators without regard to room required for eddy
> field and in some cases with transmission lines where it is possible
> to get three different current flows together with a closed circuit,
> yet we are now protecting the idea of non closed circuits where the
> current flow
> is on top of each other. No wonder it is said over the last 100 years
> that we don't fully understand radiation especially when it takes over
> 70 posts on how to make a cantenna from a panel of experts
> Best regards
> Art
>
> This is so amusing. Those who don't appreciate knowledge thus far,
> probably
> don't know it. Those who are desperately hoping for a revolution might
> just
> have a ulterior motive or agenda.
>
> It is interesting to note though, that it takes a lot of PhD's to design
> something so that impoverished people (often children) can have a bowl of
> rice every day to build the technology. Also, the environmental disaster
> that is created by throwing away "gadgets" every 6 months to implement the
> latest technology. I wonder if the Liberal academic establishment is in
> touch with the environmental disaster they are creating so that we can all
> be enslaved to the global neural network.
>
> The cantenna posts are amusing, in that no one even brought up the
> transition from the connector to the resistor element, or adequate thermal

> conductivity between the oil and the outside air. The biggest problems
> revolves around these issues. Starting with how long must the transition
> be
> to allow adequate oil convection flow. The answer to all this can be
> found
> with the high power Bird loads that have a smaller oil area but use large
> radiating fins, or better yet, A chip resistor array directly mounted to a
> large fin area.
>

What is truly saddening to me is the amount of philosphy/religion that creeps into these so called scientific discussions. No wonder antenna modeling is still mostly an art form and not a science.

Ed, N2ECW

389. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 19:23:56 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <yEMSURXMvjbJFAg6@ifwtech.co.uk>
Source record: 18213

Art Unwin wrote:
>
>So the developers know why the programs in the final analysis
> gyrate towards radiators and arrays in equilibrium? Do you know what
>that reason is? Present thinking, I thought, suggest that the skin
>depth is quite thin when used for non destructive testing of materials.
>Is that also known by the developers? If the providing current is on
>the surface of a radiator then why does the resulting eddy current
>penetrate to the limits? Seems a sort of scrambled assumptions at play
>here!

Well, at least the last sentence was correct.

--

73 from Ian GM3SEK
http://www.ifwtech.co.uk/g3sek

390. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 19:54:24 UTC
From: JB <nospam@goofball.net>
Message-ID: <Qprbl.236$eX3.199@nwrddc01.gnilink.net>
Source record: 18214

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:4e0241a2-a7d1-4d93-bf02-680dfca83c25@20g2000yqt.googlegroups.com...
On Jan 13, 7:33 pm, "JB" <nos...@goofball.net> wrote:
>> People who exploit children in warfare are COWARDS!

>Maybe ! So should U.S. arms be supplied
when they was used kill the children any way?
Now we have phosphorus and we know what happened in the East end of
London
Now all those that are in the killing fields can resort to gas as in
the 1st world war,
especially when the U.S. supplied personel bombs are being dropped
contrary
to prior restrictions made. Perhaps if we started again at the
begining where the settlement area was determined by the UN in the
same way the Allies did after the second world war israelis and
arabscould live in the way Germany does now. We cannot continue to be
like Gulliver who was rendered impotent by the little people while he
slept such that the killing field become expanded once again.If the
youth who stood in front of a chinese tank in Tinnerman square did the
same thing in Gaza the tank would continue to roll over him as if he
was a member of the U.N.
It would be stupid, not cowardly, to stay imobile in front of a tank
or a bulldozer or not to seek shelter in the absence of anti aircraft
missiles to resist the impact of bombs and phoshorous.
Londoners lived in shelters and the underground railroad when under
the same conditions, so were they cowards? The Japanese fought to the
death standing their ground in front of the allied onslaught so should
we not call them heroes? When the israelis threw themselves over the
mountain top rather than fight the enemy what should we call them
now.? To save a life in a critical moment man is capable of anything,
including assasination or eating human remains when being starved, so
how can one judge another human from a distance so far?
>Art

I have no idea what you are talking about.

Hamas was voted into power, now the people reap what they have sown.
Hamas has been targetting civilians from the start, now they use civillians,
women and children for cover. Are the people to blame for voting them
into power? Or are they so under duress that they need to be liberated?

"When the righteous thrive, the people rejoice; when the wicked rule, the
people groan."
--Proverbs 29

391. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 20:25:11 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <0138e4cc-667d-4ba5-a062-7fe87a2ca0ba@r41g2000prr.googlegroups.com>
Source record: 18215

On Jan 14, 1:54 pm, "JB" <nos...@goofball.net> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:4e0241a2-a7d1-4d93-bf02-680dfca83c25@20g2000yqt.googlegroups.com...
> On Jan 13, 7:33 pm, "JB" <nos...@goofball.net> wrote:
>
> >> People who exploit children in warfare are COWARDS!
> >Maybe ! So should U.S. arms be supplied
>
> when they was used kill the children any way?
> Now we have phosphorus and we know what happened in the East end of
> London
> Now all those that are in the killing fields can resort to gas as in
> the 1st world war,
> especially when the U.S. supplied personel bombs are being dropped
> contrary
> to prior restrictions made. Perhaps if we started again at the
> begining where the settlement area was determined by the UN in the
> same way the Allies did after the second world war israelis and
> arabscould live in the way Germany does now. We cannot continue to be
> like Gulliver who was rendered impotent by the little people while he
> slept such that the killing field become expanded once again.If the
> youth who stood in front of a chinese tank in Tinnerman square did the
> same thing in Gaza the tank would continue to roll over him as if he
> was a member of the U.N.
> It would be stupid, not cowardly, to stay imobile in front of a tank
> or a bulldozer or not to seek shelter in the absence of anti aircraft
> missiles to resist the impact of bombs and phoshorous.
> Londoners lived in shelters and the underground railroad when under
> the same conditions, so were they cowards? The Japanese fought to the
> death standing their ground in front of the allied onslaught so should
> we not call them heroes? When the israelis threw themselves over the
> mountain top rather than fight the enemy what should we call them
> now.? To save a life in a critical moment man is capable of anything,
> including assasination or eating human remains when being starved, so
> how can one judge another human from a distance so far?
>
> >Art
>
> I have no idea what you are talking about.
>
> Hamas was voted into power, now the people reap what they have sown.
> Hamas has been targetting civilians from the start, now they use civillians,
> women and children for cover. Are the people to blame for voting them

> into power? Or are they so under duress that they need to be liberated?
>
> "When the righteous thrive, the people rejoice; when the wicked rule, the
> people groan."
> --Proverbs 29

It is no difference to punishment applied to the Jews and the same
that was applied to cities in Germany. The second world war used the
killing of twelve terrorists for one of their own in Europe which is
now upped to a 100 by Israel. We did the same thing to the american
indian what israel is doing today except we are not imposing
aparthide. We are all to blame, except Israelis, because they have God
on their side. The Jerusalem post published a comment of mine deriding
the effectiveness of bulldozing houses of arabs in the aproach to
peace. Since that day Jewish people
have informed me that I should love them per the bible, while others
aligned me with Hitler. On the other hand, mail from around the World
was questioning how I got the newspaper to print a comment from a
Gentile?For me I am against Zionism at the expense of the residing
arabs, not against all jews. At the moment a city has been starved and
then shuttled into an ever tightening loop with no escape route for
civilians so they can be killed with the rest.
The next phase of these actions can involve the use of gas again as
rules of the past are decimated You should not be surprised that I am
willing to stand by my convictions and speak out
in the face of denials and not to stay silent
Art Unwin KB9MZ.....xg.....(uk)
I find that hard to condone as well as crimes by gentiles or committed
by non jews.in the past just to judge the present happenings on behlf
of apartide practices

My best friend who is now a silent key was a non practicing jew who
also yurned for peace

392. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 21:18:52 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gklkvr$1fg$1@news.service.uci.edu>
Source record: 18218

Ian White GM3SEK wrote:
> Jim Kelley wrote:
>> Dave wrote:
>>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>>> news:e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com.>>..
>>>
>>>
>>>> (I am assuming that skin depthg is not limitless.)
>>> of course it is limitless, it is an exponential function so it never
>>> goes to zero. the so called 'skin depth' is only the point where the
>>> current has dropped to 1/e or about 37% of the surface value, still a
>>> significant current.
>>
>> The plots at the link Frank provided show current going rather
>> abruptly to zero - even negative ("contrary"?) in some cases. I
>> wouldn't presume to know whether it is modeled correctly.
>>
>
> Decrease of RF current with depth below the surface of a conductor is
> only a true exponential if the available conductor depth is infinite. In
> the modeled situations where there is 'competition' from a skin effect
> on the opposite side of the conductor, the solution is a Bessel function
> which does pass through zero and reverse direction at certain depths.
>
> In other words, the model is behaving as expected.
>
> Programs such as NEC and Maxwell are not released until they have gone
> through a very detailed process of checking and validation. The first
> step is to check against special cases that can be independently solved
> by analytical methods (in other words, pure math). The work isn't
> complete until all the results agree within close margins, and the
> reasons for any differences are fully understood.
>
> By the time we amateurs come to hear about these programs, they have
> already been thoroughly validated by developers and professional users.
> That doesn't make them immune from further criticism... but only by
> people who have done the work to earn that right.

Hi Ian,

Please know that my comment was never intended as a slight of anyone's
work. I simply don't presume to know anything about it other than to
observe that the citation appears to contradict the assertion that skin
depth is limitless and exponential in real conductors.

73, ac6xg

393. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 21:26:45 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gkllal$o422$1@tr22n12.aset.psu.edu>
Source record: 18216

JB wrote:

> It is interesting to note though, that it takes a lot of PhD's to design
> something so that impoverished people (often children) can have a bowl of
> rice every day to build the technology. Also, the environmental disaster
> that is created by throwing away "gadgets" every 6 months to implement the
> latest technology. I wonder if the Liberal academic establishment is in
> touch with the environmental disaster they are creating so that we can all
> be enslaved to the global neural network.

Respectfully JB, is this liberals created the disposable society rant
something you can lay hands or links to citations for, or is it just
truthiness?

- 73 de Mike N3LI -

394. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 21:29:33 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gkllft$o422$2@tr22n12.aset.psu.edu>
Source record: 18217

Ed Cregger wrote:

> What is truly saddening to me is the amount of philosphy/religion that
> creeps into these so called scientific discussions. No wonder antenna
> modeling is still mostly an art form and not a science.

So right, Ed. Last time I checked, antennas did not have either a
liberal or conservative bias.

- 73 de Mike N3LI -

395. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 21:49:39 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <9fSdnQAY3IVuwPPUnZ2dnUVZ_gKdnZ2d@posted.easystreetonline>
Source record: 18219

I don't want to add ammunition to support Art's gibberish, but it's interesting and not widely known that current *does* flow in the opposite direction to the main flow, at certain depths in a homogeneous conductor.

In a solid conductor, the current density does, of course, decrease exponentially with depth. The depth at which it's decayed to 1/e (about 37%) of the surface density is the "skin depth". This is why a hollow tube is just as good a conductor as a solid one, providing only that the tube wall is at least several skin depths thick.

But the *phase* of the current changes with depth, too, quite dramatically. As you go each skin depth deeper below the surface, the phase becomes one radian (about 57 degrees) more lagging. So at pi skin depths below the surface, the current is completely out of phase with the surface current, i.e., it's flowing in the opposite direction. Of course, the current density at this point is very small, only 1/e^pi ~ 4% of the surface density, so only a small fraction of the total current flows completely backward. (Good thing!) At two pi skin depths, the current is again in phase with the surface current, but its magnitude is only 1/e^(2*pi) ~ 1/500 of the surface density. And so forth.

This isn't of much immediate practical use, and it's certainly not offered as supporting in any way Art's fanciful theories (whatever they might be). But it is an interesting fact.

Roy Lewallen, W7EL

396. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 22:02:15 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Hhtbl.178$Dx.134@nwrddc02.gnilink.net>
Source record: 18220

"Jim Kelley" <jwkelley@uci.edu> wrote in message
news:gkjbbt$j58$1@news.service.uci.edu...
> Dave wrote:
>>
>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>> news:e83c4e3a-8327-48df-b439-cb4bbc7d3f46@l38g2000vba.googlegroups.com...
>>
>>> (I am assuming that skin depthg is not limitless.)
>>
>> of course it is limitless, it is an exponential function so it never goes
>> to zero. the so called 'skin depth' is only the point where the current
>> has dropped to 1/e or about 37% of the surface value, still a significant
>> current.
>
> The plots at the link Frank provided show current going rather abruptly to
> zero - even negative ("contrary"?) in some cases. I wouldn't presume to
> know whether it is modeled correctly.
>
> ac6xg

the 'contrary' current makes sense because of 2 different effects. the main
one is the phase delay of propagation through the conductor. the velocity
of propagation of the wave within the wire is MUCH slower than through space
outside the wire. this produces a phase delay such that when you take a
snapshot, as those plots most likely are, you can get opposing currents. if
you were to take a time average or peak value you would get the plain
exponential as predicted by the simple equations that are normally taught.
The other confounding factor on those examples is the discontinuity between
the copper and steel, again the velocity changes across that boundary
shifting the phase in a step.

397. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 22:15:49 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gklo6jdci1@news.jpl.nasa.gov>
Source record: 18225

Jim Kelley wrote:

> Hi Ian,
>
> Please know that my comment was never intended as a slight of anyone's
> work. I simply don't presume to know anything about it other than to
> observe that the citation appears to contradict the assertion that skin
> depth is limitless and exponential in real conductors.
>
> 73, ac6xg

that's because the usual discussion of "skin depth" is cribbed from a physics textbook, where the (not always explicitly said) assumption is "in an infinite uniform plane of infinite depth with no other magnetic fields"

In that restricted (but useful) case, you can model the current (for the purposes of things like resistivity) as if it were uniform from the surface to the skin depth.

In cases where the thickness of the conductor is "large" relative to the skin depth, the error in using the rectangular layer of current assumption is "small".

In cases where this assumption isn't valid (or, if you need higher precision), then a more complete analytical formulation is needed. If the conductor happens to be circular, then Bessel functions are surely involved (differential equations in circular things almost always involve Bessel functions and/or Hankel transforms). Since most of us don't do Bessel functions in our heads, we use tables or lookups.

There's two sets of tables and graphs for round conductors: one is for solid conductors; the other is for tubular conductors. Different boundary conditions on solving the differential equations, so different analytical solutions.

A 1998 paper by Gaba and Abou-Dakka gives all the equations and background, and adds the details needed for stranded wires and cables made of multiple substances (e.g. ACSR power lines).

There's also some analytical solutions for square and rectangular cross sections, but they're pretty ugly, compared to the round conductors.

once you start talking multiple materials and dielectrics, it becomes easier to do FEM (following the dictum of my father's differential equations professor: useful differential equations should be solved numerically, because the analytical solution is often harder and more

computation than the numerical one). (another good example of this is calculating the field between two spherical electrodes)

398. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 22:18:43 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gkloc2dci2@news.jpl.nasa.gov>
Source record: 18226

Roy Lewallen wrote:
> I don't want to add ammunition to support Art's gibberish, but it's
> interesting and not widely known that current *does* flow in the
> opposite direction to the main flow, at certain depths in a homogeneous
> conductor.
>
> In a solid conductor, the current density does, of course, decrease
> exponentially with depth. The depth at which it's decayed to 1/e (about
> 37%) of the surface density is the "skin depth". This is why a hollow
> tube is just as good a conductor as a solid one, providing only that the
> tube wall is at least several skin depths thick.
>
> But the *phase* of the current changes with depth, too, quite
> dramatically. As you go each skin depth deeper below the surface, the
> phase becomes one radian (about 57 degrees) more lagging. So at pi skin
> depths below the surface, the current is completely out of phase with
> the surface current, i.e., it's flowing in the opposite direction. Of
> course, the current density at this point is very small, only 1/e^pi ~
> 4% of the surface density, so only a small fraction of the total current
> flows completely backward. (Good thing!) At two pi skin depths, the
> current is again in phase with the surface current, but its magnitude is
> only 1/e^(2*pi) ~ 1/500 of the surface density. And so forth.
>
> This isn't of much immediate practical use, and it's certainly not
> offered as supporting in any way Art's fanciful theories (whatever they
> might be). But it is an interesting fact.
>

I wonder if one could set up some sort of interesting demonstration of
this. If you could, for instance, have a 1 foot diameter conductor with
skin depth of an inch or so, and some (probably not feasible) way to
indicate current flow. (yes, in order for this to happen it has to be
AC, etc.)

399. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 22:27:36 UTC
From: kb9rqz@yahoo.com
Message-ID: <nmpsm493p0dk7lpiqrva66eobl8onnc3n5@4ax.com>
Source record: 18221
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

400. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 22:30:08 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <327764c3-1816-4d08-8c39-8dc9f9f5cfd3@z6g2000pre.googlegroups.com>
Source record: 18222

On Jan 14, 3:49 pm, Roy Lewallen <w...@eznec.com> wrote:
> I don't want to add ammunition to support Art's gibberish, but it's
> interesting and not widely known that current *does* flow in the
> opposite direction to the main flow, at certain depths in a homogeneous
> conductor.
>
> In a solid conductor, the current density does, of course, decrease
> exponentially with depth. The depth at which it's decayed to 1/e (about
> 37%) of the surface density is the "skin depth". This is why a hollow
> tube is just as good a conductor as a solid one, providing only that the
> tube wall is at least several skin depths thick.
>
> But the *phase* of the current changes with depth, too, quite
> dramatically. As you go each skin depth deeper below the surface, the
> phase becomes one radian (about 57 degrees) more lagging. So at pi skin
> depths below the surface, the current is completely out of phase with
> the surface current, i.e., it's flowing in the opposite direction. Of
> course, the current density at this point is very small, only 1/e^pi ~
> 4% of the surface density, so only a small fraction of the total current
> flows completely backward. (Good thing!) At two pi skin depths, the
> current is again in phase with the surface current, but its magnitude is
> only 1/e^(2*pi) ~ 1/500 of the surface density. And so forth.
>
> This isn't of much immediate practical use, and it's certainly not
> offered as supporting in any way Art's fanciful theories (whatever they
> might be). But it is an interesting fact.
>
> Roy Lewallen, W7EL

Exactly.
And every phase change support current /charge flow in the opposite
direction
in accordance with Newtons laws. Use a vector drawing to prove it for
yourself !
Or provide same as proof of my errors.
While you are at it do the same for a full wave radiator which IS in
equilibrium per Maxwells law
when the inner vector is now non existant since radiation occurs on
the surface at all times in accordance with the "tank circuit"
abilities And where the center path is only resistive in the case of a
fractional wave antenna. This is very, very basic physics to which I
know no challedge in the physics world. For you it is no difference
when you were affiliated with QST and supported the
commercial publishing of rediculas specifications to oppose change.

Sooner or later you will again have to change your tune to one that
does not include opposition to the truth.
The book that Richard is quoting is available on the web for $1.99
which will allow you to confront all the authors of their "rediculus"
errors at the same time together with all the Universities that use
the book as part of their physics curriculum
I await your appearance on CNN where it will undoubtably push aside
the viewing of the president

Cecil,
This is how you defrock the self perceived pompous expert. He
ofcourse does make errors which he will not own up to.
Art Unwin......KB9MZ....(xg)

401. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 22:46:29 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <iSO2xZaFtmbJFAzh@ifwtech.co.uk>
Source record: 18223

Jim Kelley wrote:
>> Decrease of RF current with depth below the surface of a conductor
>>is only a true exponential if the available conductor depth is
>>infinite. In the modeled situations where there is 'competition' from
>>a skin effect on the opposite side of the conductor, the solution is
>>a Bessel function which does pass through zero and reverse direction
>>at certain depths.
>> In other words, the model is behaving as expected.
>> Programs such as NEC and Maxwell are not released until they have
>>gone through a very detailed process of checking and validation. The
>>first step is to check against special cases that can be
>>independently solved by analytical methods (in other words, pure
>>math). The work isn't complete until all the results agree within
>>close margins, and the reasons for any differences are fully understood.
>> By the time we amateurs come to hear about these programs, they have
>>already been thoroughly validated by developers and professional
>>users. That doesn't make them immune from further criticism... but
>>only by people who have done the work to earn that right.
>
>Hi Ian,
>
>Please know that my comment was never intended as a slight of anyone's
>work.

I didn't think that for a moment, Jim.

>I simply don't presume to know anything about it other than to observe
>that the citation appears to contradict the assertion that skin depth
>is limitless and exponential in real conductors.

As noted above, that commonly-held assertion is only true for conductors
of limitless depth.

--

73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

402. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 22:54:56 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <i3ubl.2005$%54.1825@nlpi070.nbdc.sbc.com>
Source record: 18224

JB wrote:
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:4e0241a2-a7d1-4d93-bf02-680dfca83c25@20g2000yqt.googlegroups.com...
> On Jan 13, 7:33 pm, "JB" <nos...@goofball.net> wrote:
>>> People who exploit children in warfare are COWARDS!
>
>> Maybe ! So should U.S. arms be supplied
> when they was used kill the children any way?
> Now we have phosphorus and we know what happened in the East end of
> London
> Now all those that are in the killing fields can resort to gas as in
> the 1st world war,
> especially when the U.S. supplied personel bombs are being dropped
> contrary
> to prior restrictions made. Perhaps if we started again at the
> begining where the settlement area was determined by the UN in the
> same way the Allies did after the second world war israelis and
> arabscould live in the way Germany does now. We cannot continue to be
> like Gulliver who was rendered impotent by the little people while he
> slept such that the killing field become expanded once again.If the
> youth who stood in front of a chinese tank in Tinnerman square did the
> same thing in Gaza the tank would continue to roll over him as if he
> was a member of the U.N.
> It would be stupid, not cowardly, to stay imobile in front of a tank
> or a bulldozer or not to seek shelter in the absence of anti aircraft
> missiles to resist the impact of bombs and phoshorous.
> Londoners lived in shelters and the underground railroad when under
> the same conditions, so were they cowards? The Japanese fought to the
> death standing their ground in front of the allied onslaught so should
> we not call them heroes? When the israelis threw themselves over the
> mountain top rather than fight the enemy what should we call them
> now.? To save a life in a critical moment man is capable of anything,
> including assasination or eating human remains when being starved, so
> how can one judge another human from a distance so far?
>> Art
>
> I have no idea what you are talking about.
>
> Hamas was voted into power, now the people reap what they have sown.
> Hamas has been targetting civilians from the start, now they use civillians,
> women and children for cover. Are the people to blame for voting them
> into power? Or are they so under duress that they need to be liberated?
>
> "When the righteous thrive, the people rejoice; when the wicked rule, the

> people groan."
> --Proverbs 29
>

It's very stupid of Hamas to use children as shields, since Israelis have no problem with mowing them down, and blowing them up with the weapons we've supplied them over the years. It's a waste of time writing about this on this forum, though. No one here can do anything about the Israeli atrocities. I suggest, for those interested, the talkbacks on the Jerusalem Post, Haaretz, and even Al Jazeera might prove useful.
73,
Tom Donaly, KA6RUH

403. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 23:15:18 UTC
From: ml <m@di.net>
Message-ID: <m-87FA48.18151814012009@news.optonline.net>
Source record: 18227

In article <FApbl.143$Dx.8@nwrddc02.gnilink.net>,
"JB" <nospam@goofball.net> wrote:

> > JB sez "N is a 50 ohm connector, but the PL259/2O239 is a stepped
> > transistion and isn't even specified for impedance."
> >
> > Actually, think you will find that N connectors, as well as BNC
> > connectors come in Several Impedences! (Not one size fits all).
> >
> > Had surplus ones with center pins fit 90 ohm, and 75 ohm (no go on 50
> > ohm coax)! Be sure to check connector specs! Jim NN7K
>
> Excellent point! You usually need to get specific connectors for specific
> cable. Trying to get what you ordered is often the reason for surplus (or
> failure). There are so many ways to goof up a communication system these
> days. Come to think of it, there is far more to be considered for people to
> be able to see eye to eye.
>
> For instance, there has always been a conflict over how much supervision
> should be required for the "man in the field".

thats interesting, thanks to everyone that responded to the
oirginal ontopic post

Glad to know I wasn't the only one having issues finding certain
values for those connectors .

i started to read pl259 folklore and heard that it was desiged
specifically to handle the higher power(HF) and while a quick look
at it does reveil a thicker connector, i sorta guess that all
it's other issues might not make it the best choise for even hf
and wanted to bounce it off you guys so thanks

my second choice was going to be continuing use of N connectors
but wanted to make sure it wasn't going to have a problem say at
full legal power on HF

I have a few DIN connectors but they are rather expensive even
surplus and ultimately requring me to use a jumper since non of
my gear actually has that

all my coax runs use N except 1 run in which i have times
microwave lmr 400 with their captivated Pl259 I have swept the coax
at time of install and every now and then afterwards it still shows
what it should and same as day 1 but it was for an experiment
not sure i'd want to use the pl259's long term

again thanks for all

404. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 23:22:50 UTC
From: ml <m@di.net>
Message-ID: <m-7CAB5F.18225014012009@news.optonline.net>
Source record: 18228

In article <VGNal.3056$Qa.1611@bignews2.bellsouth.net>,
"Ed Cregger" <ecregger@bellsouff.net> wrote:

> "Michael Coslo" <mjc5@psu.edu> wrote in message
> news:gkg4in$bs6c$1@tr22n12.aset.psu.edu...
> > Ed Cregger wrote:
> >
> >> That has been on my mind also. We do having a significant slowing of the
> >> current known as the Atlantic Conveyor over the last several years. That
> >> does not bode well for Europe/England just by itself.
> >>
> >> I was looking forward to one more active sunspot cycle before I died (I'm
> >> a six meter fan), but it doesn't appear that we are going to have one, if
> >> present trends continue.
> >>
> >> Of course, just when you think you have Mother Nature all figured out -
> >> she comes out of left field with some new phenomenon that catches us by
> >> surprise. For instance, the Yellowstone super caldera. If that were to
> >> erupt, it would mean an Ice Age for sure. Or would it?
> >
> >
> > Anyone keeping tabs on the earthquake activity in Yellowstone?
> >
> >
> > http://volcanoes.usgs.gov/yvo/
> >
> >
> >
> >
> > - 73 de Mike N3LI -
>
> -------------
>
> Somewhat. That would definitely bring on an Ice Age, should it have a full
> scale eruption. Never a boring moment.
>
> Ed, N2ECW

sigh, like many i've been waiting for the bands to come alive and
start jumping

hopfully it's just a bit of a delay and not a way way long term wait

but i guess the only thing worse then many more years of dead bands
would be for the world to end egads if that happens i can always

do EME but its not the same

405. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 23:28:38 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <66068ac0-b8fa-4ef0-896b-4b402e12bbf0@k36g2000pri.googlegroups.com>
Source record: 18229

On Jan 14, 4:18 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> Roy Lewallen wrote:
> > I don't want to add ammunition to support Art's gibberish, but it's
> > interesting and not widely known that current *does* flow in the
> > opposite direction to the main flow, at certain depths in a homogeneous
> > conductor.
>
> > In a solid conductor, the current density does, of course, decrease
> > exponentially with depth. The depth at which it's decayed to 1/e (about
> > 37%) of the surface density is the "skin depth". This is why a hollow
> > tube is just as good a conductor as a solid one, providing only that the
> > tube wall is at least several skin depths thick.
>
> > But the *phase* of the current changes with depth, too, quite
> > dramatically. As you go each skin depth deeper below the surface, the
> > phase becomes one radian (about 57 degrees) more lagging. So at pi skin
> > depths below the surface, the current is completely out of phase with
> > the surface current, i.e., it's flowing in the opposite direction. Of
> > course, the current density at this point is very small, only 1/e^pi ~
> > 4% of the surface density, so only a small fraction of the total current
> > flows completely backward. (Good thing!) At two pi skin depths, the
> > current is again in phase with the surface current, but its magnitude is
> > only 1/e^(2*pi) ~ 1/500 of the surface density. And so forth.
>
> > This isn't of much immediate practical use, and it's certainly not
> > offered as supporting in any way Art's fanciful theories (whatever they
> > might be). But it is an interesting fact.
>
> I wonder if one could set up some sort of interesting demonstration of
> this. If you could, for instance, have a 1 foot diameter conductor with
> skin depth of an inch or so, and some (probably not feasible) way to
> indicate current flow. (yes, in order for this to happen it has to be
> AC, etc.)

Why not insert a wafer of the same material parallel to the axis and
apply
a non destuctive test on the material as a whole. When the wafer is
withdrawn
would it not be possible to observe the actual effective skin depth.
Of course, the slot for the wafer must not enter the radial surface
of the
radiator other wise circular flow would be interupted thus destroying
the
datum apearance. Obviously I have not utelised a non destructive test

first hand.
From my point of view as long as there is an eddy current on the
surface to eject a resting particle
there is not the requirement for endles depth and decay would be the
condition of the particle alone
and not that of the conductor. The particle still has nuclear content
when it emerges from the Sun's
arbritary field which is obviously subject to decay
Regards
Art

406. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-14 23:32:31 UTC
From: ml <m@di.net>
Message-ID: <m-115DE2.18323114012009@news.optonline.net>
Source record: 18230

In article <y_9al.5341$Es4.1205@nwrddc01.gnilink.net>,
"Jerry" <jerrymartes@verizon.net> wrote:

> "Jerry" <jerrymartes@verizon.net> wrote in message
> news:uv9al.5318$Es4.3628@nwrddc01.gnilink.net...
> >
> > "ml" <m@di.net> wrote in message
> > news:m-E7A0E3.12241110012009@news.optonline.net...
> >> hi
> >>
> >> Just wondering a few things
> >>
> >> I see the center pin on a typical N connector is pretty small
> >>
> >> How much power could it hold at HF and also uhf/vhf
> >> frequencies? Assuming a modern day high quality N connector??
> >>
> >> The other thing i pondered is that it seems the don't make
> >> Pl259/so239 connectors for hardline, so what do guys use typically for
> >> higher power DIN?
> >>
> >>
> >>
> >> thanks
> >
> > Hi ml
> >> Can you find this site on the Internet?
> >> http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial
> >> .pdf
>
> >
> > Jerry KD6JDJ
> >

Yes thanks for the site it's interesting and an ontopic post
but mostly not really connectors i'd use but the theories there
are relavant.

seems many have hi-jacked the thread with mostly off topic posts
regarding how to "water proof or attaching connectors etc"

407. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 00:09:54 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d5bda680-663a-4beb-abb5-7b19ed9721cb@z28g2000prd.googlegroups.com>
Source record: 18231

On Jan 14, 5:22 pm, ml <m...@di.net> wrote:
> In article <VGNal.3056$Qa.1...@bignews2.bellsouth.net>,
> "Ed Cregger" <ecreg...@bellsouff.net> wrote:
>
>
>
> > "Michael Coslo" <m...@psu.edu> wrote in message
> >news:gkg4in$bs6c$1@tr22n12.aset.psu.edu...
> > > Ed Cregger wrote:
>
> > >> That has been on my mind also. We do having a significant slowing of the
> > >> current known as the Atlantic Conveyor over the last several years. That
> > >> does not bode well for Europe/England just by itself.
>
> > >> I was looking forward to one more active sunspot cycle before I died (I'm
> > >> a six meter fan), but it doesn't appear that we are going to have one, if
> > >> present trends continue.
>
> > >> Of course, just when you think you have Mother Nature all figured out -
> > >> she comes out of left field with some new phenomenon that catches us by
> > >> surprise. For instance, the Yellowstone super caldera. If that were to
> > >> erupt, it would mean an Ice Age for sure. Or would it?
>
> > > Anyone keeping tabs on the earthquake activity in Yellowstone?
>
> > >http://volcanoes.usgs.gov/yvo/
>
> > > - 73 de Mike N3LI -
>
> > -------------
>
> > Somewhat. That would definitely bring on an Ice Age, should it have a full
> > scale eruption. Never a boring moment.
>
> > Ed, N2ECW
>
> sigh, like many i've been waiting   for the bands to come alive and
> start jumping
>
> hopfully it's just a bit of a delay and not   a way way long term wait
>
> but i guess the only thing worse then many more years of dead bands
> would be for the world to end   egads   if that happens   i can always
> do EME but its not the same

Remember that it is predicted that our world will flip with respect to
the poles
thus the zenith of sun spots will alter by eleven years. Best to learn
to swim before that happens. Last thing I heard was the magnetic pole
was in Siberia and still going away. Hopefully there is
still time for the poles to change their minds and return.
Art
Art

408. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 00:28:45 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8e47bbd6-4cf3-41ff-9aea-0be0d720d40d@l33g2000pri.googlegroups.com>
Source record: 18232

On Jan 14, 4:54 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> JB wrote:
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
> >news:4e0241a2-a7d1-4d93-bf02-680dfca83c25@20g2000yqt.googlegroups.com...
> > > On Jan 13, 7:33 pm, "JB" <nos...@goofball.net> wrote:
> > >>> People who exploit children in warfare are COWARDS!
>
> >> Maybe ! So should U.S. arms be supplied
> > > when they was used kill the children any way?
> > > Now we have phosphorus and we know what happened in the East end of
> > > London
> > > Now all those that are in the killing fields can resort to gas as in
> > > the 1st world war,
> > > especially when the U.S. supplied personel bombs are being dropped
> > > contrary
> > > to prior restrictions made. Perhaps if we started again at the
> > > begining where the settlement area was determined by the UN in the
> > > same way the Allies did after the second world war israelis and
> > > arabscould live in the way Germany does now. We cannot continue to be
> > > like Gulliver who was rendered impotent by the little people while he
> > > slept such that the killing field become expanded once again.If the
> > > youth who stood in front of a chinese tank in Tinnerman square did the
> > > same thing in Gaza the tank would continue to roll over him as if he
> > > was a member of the U.N.
> > > It would be stupid, not cowardly, to stay imobile in front of a tank
> > > or a bulldozer or not to seek shelter in the absence of anti aircraft
> > > missiles to resist the impact of bombs and phoshorous.
> > > Londoners lived in shelters and the underground railroad when under
> > > the same conditions, so were they cowards? The Japanese fought to the
> > > death standing their ground in front of the allied onslaught so should
> > > we not call them heroes? When the israelis threw themselves over the
> > > mountain top rather than fight the enemy what should we call them
> > > now.? To save a life in a critical moment man is capable of anything,
> > > including assasination or eating human remains when being starved, so
> > > how can one judge another human from a distance so far?
> >> Art
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> > I have no idea what you are talking about.
>
> > Hamas was voted into power, now the people reap what they have sown.
> > Hamas has been targetting civilians from the start, now they use civillians,
> > women and children for cover. Are the people to blame for voting them
> > into power? Or are they so under duress that they need to be liberated?
>

> > "When the righteous thrive, the people rejoice; when the wicked rule, the
> > people groan."
> > --Proverbs 29
>
> It's very stupid of Hamas to use children as shields, since Israelis
> have no problem with mowing them down, and blowing them up with the
> weapons we've supplied them over the years. It's a waste of time writing
> about this on this forum, though. No one here can do anything about the
> Israeli atrocities. I suggest, for those interested, the talkbacks on
> the Jerusalem Post, Haaretz, and even Al Jazeera might prove useful.
> 73,
> Tom Donaly, KA6RUH

But change is coming!.
The World sees the the Palestinian rockets are landing
in occupied lands which makes the residents part of the occupation
forces.
Next week will be the start of american separation so that Israeli
withdrawal starts
to way back of the green line and the
West Bank will extend from the sea to the river and all that is North
For this Iran gives up the atom bomb as must Israel. All this subject
to agreement by Syria, Lebonan,Jordan and Egypt with other arab
nations on the side lines. America's standing with the rest of the
world will no more be governed by Israel actions with arms supplied by
the US to the tune of $500 for every man , women and child for every
Jewish resident every year. No more bail outs in the US or the Mid
East.
Tom, change is coming. Is it peace or Armagedon?
Art
Art

409. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 00:34:33 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <twvbl.217$Dx.215@nwrddc02.gnilink.net>
Source record: 18233

```
"ml" <m@di.net> wrote in message
news:m-115DE2.18323114012009@news.optonline.net...
> In article <y_9al.5341$Es4.1205@nwrddc01.gnilink.net>,
> "Jerry" <jerrymartes@verizon.net> wrote:
>
>> "Jerry" <jerrymartes@verizon.net> wrote in message
>> news:uv9al.5318$Es4.3628@nwrddc01.gnilink.net...
>> >
>> > "ml" <m@di.net> wrote in message
>> > news:m-E7A0E3.12241110012009@news.optonline.net...
>> >> hi
>> >>
>> >> Just wondering a few things
>> >>
>> >> I see the center pin on a typical N connector is pretty small
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>> >> frequencies? Assuming a modern day high quality N connector??
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>> >> for
>> >> higher power DIN?
>> >>
>> >>
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>> >> thanks
>> >
>> > Hi ml
>> >> Can you find this site on the Internet?
>> >> http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial
>> >> .pdf
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>> >
>> > Jerry KD6JDJ
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>
> Yes thanks for the site it's interesting and an ontopic post
> but mostly not really connectors i'd use but the theories there
> are relavant.
>
> seems many have hi-jacked the thread with mostly off topic posts
> regarding how to "water proof or attaching connectors etc"
```

Hi ML

I wonder if you saw the page 116 graph of
http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial
that shows the power handling capability of the N connector.

Jerry KD6JDJ

410. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 01:47:40 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <f75tm4p6l5b95snn3etl43j5dlp40cmnuh@4ax.com>
Source record: 18234

On Wed, 14 Jan 2009 16:29:33 -0500, Michael Coslo <mjc5@psu.edu>
wrote:

>Ed Cregger wrote:
>
>> What is truly saddening to me is the amount of philosphy/religion that
>> creeps into these so called scientific discussions. No wonder antenna
>> modeling is still mostly an art form and not a science.
>
>So right, Ed. Last time I checked, antennas did not have either a
>liberal or conservative bias.

*** observing nothing technically redeeming in this thread ***

Hi Mike,

Circular polarity is not political? You can have a left hand screw or
a right hand screw.

*** Fulfilling the entertainment mandate of RRAA for 14 years ***

73's
Richard Clark, KB7QHC

411. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 02:23:40 UTC
From: Dave <dave@dave.dave>
Message-ID: <hf-dnUMJ9tCxA_PUnZ2dnUVZ_szinZ2d@earthlink.com>
Source record: 18235

Art Unwin wrote:

>
> Remember that it is predicted that our world will flip with respect to
> the poles
> thus the zenith of sun spots will alter by eleven years. Best to learn
> to swim before that happens. Last thing I heard was the magnetic pole
> was in Siberia and still going away. Hopefully there is
> still time for the poles to change their minds and return.
> Art
> Art

The Earth's magnetic field does not affect when sunspots happen.

412. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 02:26:41 UTC
From: Dave <dave@dave.dave>
Message-ID: <hf-dnUIJ9tB8A_PUnZ2dnUVZ_szinZ2d@earthlink.com>
Source record: 18236

Jerry wrote:

> Hi ML
>
> I wonder if you saw the page 116 graph of
> http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial
> that shows the power handling capability of the N connector.
>
> Jerry KD6JDJ
>
>
"Welcome to Southwest Microwave

You have requested a page that is either obsolete or has moved.

Click here for our complete Product Catalog listing."

I think the connector can handle more power than the cable.

413. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 02:47:06 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <stxbl.11380$as4.1222@nlpi069.nbdc.sbc.com>
Source record: 18237

Dave wrote:
> Art Unwin wrote:
>
>>
>> Remember that it is predicted that our world will flip with respect to
>> the poles
>> thus the zenith of sun spots will alter by eleven years. Best to learn
>> to swim before that happens. Last thing I heard was the magnetic pole
>> was in Siberia and still going away. Hopefully there is
>> still time for the poles to change their minds and return.
>> Art
>> Art
>
> The Earth's magnetic field does not affect when sunspots happen.
Actually the northern magnetic pole is in Eastern Northern Canada and
progressing slowly eastward.

The current sunspot cycle is merely slow in appearing. The 11 year cycle
is only an average. Some cycles are less than 11 yrs and some are longer.

Dave

414. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 03:10:30 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c570122c-f3e6-4712-bc89-5bf448112bad@o40g2000prn.googlegroups.com>
Source record: 18238

On Jan 14, 8:23 pm, Dave <d...@dave.dave> wrote:
> Art Unwin wrote:
>
> > Remember that it is predicted that our world will flip with respect to
> > the poles
> > thus the zenith of sun spots will alter by eleven years. Best to learn
> > to swim before that happens. Last thing I heard was the magnetic pole
> > was in Siberia and still going away. Hopefully there is
> > still time for the poles to change their minds and return.
> > Art
> > Art
>
> The Earth's magnetic field does not affect when sunspots happen.

From what I have read the alignment of poles from both of them (Sun
and Earth) determine
the degree of sunspots and flares. This was reported in Scientific
American sometime last year together with the magnetic type stream and
their elasticity and it relationship with respect to the solar wind. I
don't know enough about the subject to debate what is correct and what
is correct.
But it does correlate with the sun's cycle that is of concern to hams
at the present time and with hams past experiences.
Art

415. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 03:12:36 UTC
From: Jim-NN7K
Message-ID: <JQxbl.11382$as4.3297@nlpi069.nbdc.sbc.com>
Source record: 18239

One thing further- IF you check, you will see that the Physical
Size of a BNC (minus the connector locking outer ring) is the
same size as the N fitting! The "N" male will plug into a "BNC"
female,the BNC without its locking ring will plug into an "N"female!
There are temporary connectors to take advantage of this factor,
for testing (not permanent) connectors ! As info, Jim NN7K

ml wrote:
> In article <y_9al.5341$Es4.1205@nwrddc01.gnilink.net>,
> "Jerry" <jerrymartes@verizon.net> wrote:
>
>> "Jerry" <jerrymartes@verizon.net> wrote in message
>> news:uv9al.5318$Es4.3628@nwrddc01.gnilink.net...
>>> "ml" <m@di.net> wrote in message
>>> news:m-E7A0E3.12241110012009@news.optonline.net...
>>>> hi
>>>>
>>>> Just wondering a few things
>>>>
>>>> I see the center pin on a typical N connector is pretty small
>>>>
>>>> How much power could it hold at HF and also uhf/vhf
>>>> frequencies? Assuming a modern day high quality N connector??
>>>>

416. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 03:30:51 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8935dfae-8f81-4b20-88a0-b39daa301139@r15g2000prd.googlegroups.com>
Source record: 18240

On Jan 14, 8:47 pm, "David G. Nagel" <nagel.da...@sbcglobal.net>
wrote:
> Dave wrote:
> > Art Unwin wrote:
>
> >> Remember that it is predicted that our world will flip with respect to
> >> the poles
> >> thus the zenith of sun spots will alter by eleven years. Best to learn
> >> to swim before that happens. Last thing I heard was the magnetic pole
> >> was in Siberia and still going away. Hopefully there is
> >> still time for the poles to change their minds and return.
> >> Art
> >> Art
>
> > The Earth's magnetic field does not affect when sunspots happen.
>
> Actually the northern magnetic pole is in Eastern Northern Canada and
> progressing slowly eastward.

.....

Outch How can I be so wrong? I will blame it on my poor memory.
I thought its position was in the area of the Berring sea straights
heading for
Siberia. Could it be Mrs Palin who said she could see it from her
house in Alaska
which is America's NORTH WEST coast. If you feel it is positioned
between Canada and Greenland more power to you !
Art

.....
>
> The current sunspot cycle is merely slow in appearing. The 11 year cycle
> is only an average. Some cycles are less than 11 yrs and some are longer.
>
> Dave

417. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 03:58:58 UTC
From: Dave <dave@dave.dave>
Message-ID: <LeudnaNthtwfKfPUnZ2dnUVZ_g2dnZ2d@earthlink.com>
Source record: 18241

Jim-NN7K wrote:
> One thing further- IF you check, you will see that the Physical
> Size of a BNC (minus the connector locking outer ring) is the
> same size as the N fitting! The "N" male will plug into a "BNC"
> female,the BNC without its locking ring will plug into an "N"female!
> There are temporary connectors to take advantage of this factor,
> for testing (not permanent) connectors ! As info, Jim NN7K
>
I knew that. I have a home-made pair that I use from time-to-time in
the lab.

418. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 04:16:45 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <NMybl.279$Dx.262@nwrddc02.gnilink.net>
Source record: 18242

Hi Dave

I must have ,made a mistake when copying that link. This one shows me
that a N connector will handle over a KW average at frequencies "ML" is
considering.
http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial.pdf

Jerry KD6JDJ

"Dave" <dave@dave.dave> wrote in message
news:hf-dnUIJ9tB8A_PUnZ2dnUVZ_szinZ2d@earthlink.com...
> Jerry wrote:
>
>> Hi ML
>>
>> I wonder if you saw the page 116 graph of
>> http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial
>> that shows the power handling capability of the N connector.
>>
>> Jerry KD6JDJ
> "Welcome to Southwest Microwave
>
>
> You have requested a page that is either obsolete or has moved.
>
> Click here for our complete Product Catalog listing."
>
> I think the connector can handle more power than the cable.

419. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 05:39:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <9uitm4di8hifaqpgtq0u371fdu95p85jqo@4ax.com>
Source record: 18243

On Thu, 15 Jan 2009 04:16:45 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

> Hi Dave
>
> I must have ,made a mistake when copying that link. This one shows me
>that a N connector will handle over a KW average at frequencies "ML" is
>considering.
>http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial.pdf
>
> Jerry KD6JDJ
>
Hi Jerry,

Thanx for the link. Good material and answers a lot questions
typically put to the group on this topic.

73's
Richard Clark, KB7QHC

420. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 07:33:41 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <sFBbl.34966$Nv1.29246@newsfe03.iad>
Source record: 18244

"David G. Nagel" <nagel.david@sbcglobal.net> wrote in message
news:stxbl.11380$as4.1222@nlpi069.nbdc.sbc.com...

>
> The current sunspot cycle is merely slow in appearing. The 11 year cycle
> is only an average. Some cycles are less than 11 yrs and some are longer.

Cycle 23 was strongly double-peaked. If you view a graph of several
single-peak cycles overlaid with 23, then move the second half of 23 to the
left, so its second peak matches the peaks of the other cycles, the falloff
of 23 looks more nearly typical.

Could it be that Cycle 23's notable second peak has made it last longer? I
hope that's it. Or maybe Cycle 24 is just the beginning of the Unwin
Minimum.

421. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 07:51:31 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <9WBbl.34967$Nv1.34124@newsfe03.iad>
Source record: 18245

"ml" <m@di.net> wrote in message
news:m-E7A0E3.122411100012009@news.optonline.net...
> hi
>
> Just wondering a few things
>
> I see the center pin on a typical N connector is pretty small
>
> How much power could it hold at HF and also uhf/vhf
> frequencies? Assuming a modern day high quality N connector??

< snip >

The Bird 43 Wattmeter has Type N connectors on it. The Bird web site says,
"Accurate CW field power measurement over 450 kHz to 2.7 GHz and 100 mW to
10 KW."

That's good enough for me to say "10 KW."

422. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 11:34:56 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <935ac919-b183-4922-aafb-6d7228966f69@g39g2000pri.googlegroups.com>
Source record: 18246

On Jan 14, 12:07 am, Art Unwin wrote:

> It has not yet been proven that current does not flow thru
> the center of a radiator.

Assuming that significant r-f current exists at the center of a radiating conductor, where does it go when it reaches the end of that conductor?

RF

423. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 12:21:47 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <vTFbl.13739$YU2.2664@nlpi066.nbdc.sbc.com>
Source record: 18247

Art Unwin wrote:
> From what I have read the alignment of poles from both of them (Sun
> and Earth) determine the degree of sunspots and flares.

Are you aware that the Sun's magnetic poles reverse every
solar cycle at the peak of the cycle? Quoting:

"The Sun's magnetic poles will remain as they are now, with
the north magnetic pole pointing through the Sun's southern
hemisphere, until the year 2012 when they will reverse again.
This transition happens, as far as we know, at the peak of
every 11-year sunspot cycle -- like clockwork."

http://science.nasa.gov/headlines/y2001/ast15feb_1.htm

The degree of sunspots and flares are a cause. The effects
on Earth depend upon "the alignment of the poles from both
of them" which changes approximately every 11 years.
--
73, Cecil http://www.w5dxp.com

424. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 12:35:59 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <P4Gbl.8857$hc1.7613@flpi150.ffdc.sbc.com>
Source record: 18248

Art Unwin wrote:
> Outch How can I be so wrong? I will blame it on my poor memory.

http://science.nasa.gov/headlines/Y2003/29dec_magneticfield.htm

Scroll down toward the bottom of the page to see what a pole
reversal in progress might look like.

http://gsc.nrcan.gc.ca/geomag/nmp/northpole_e.php

"The North Magnetic Pole is slowly drifting across the Canadian
Arctic. ... The most recent survey, completed in May, 2001,
determined an updated position for the Pole and established that
it is moving approximately northwest at 40 km per year."
--
73, Cecil http://www.w5dxp.com

425. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 13:29:14 UTC
From: Dave <dave@dave.dave>
Message-ID: <SbSdnWScwaq2p_LUnZ2dnUVZ_h2dnZ2d@earthlink.com>
Source record: 18249

Jerry wrote:
> Hi Dave
>
> I must have ,made a mistake when copying that link. This one shows me
> that a N connector will handle over a KW average at frequencies "ML" is
> considering.
> http://www.southwestmicrowave.com/mpd/pdf_06/Power%20Rating%20for%20Coaxial.pdf
>
> Jerry KD6JDJ
>
Good for legal power to 2600 MHz. There ain't an RG8 cable made that'll
do near that. Maybe 7/8" "Heliax" style line.

http://www.rfparts.com/coax_specs.html

426. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 13:35:54 UTC
From: Dave <dave@dave.dave>
Message-ID: <CKWdnc0HR_lmpvLUnZ2dnUVZ_vadnZ2d@earthlink.com>
Source record: 18250

Richard Fry wrote:
> On Jan 14, 12:07 am, Art Unwin wrote:
>
>> It has not yet been proven that current does not flow thru
>> the center of a radiator.
>
> Assuming that significant r-f current exists at the center of a
> radiating conductor, where does it go when it reaches the end of that
> conductor?
>
> RF

It doesn't "go" anywhere. As the conductor (and it's return path;
ground or whatever) is resonant, the generator sees it as a resistor.
The current is "absorbed" by this "load". But instead of pure heat, an
electromagnetic field ensues. Nothing goes anywhere.

427. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 14:00:13 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <FY6dneIHh53u3PLUnZ2dneKdnZydnZ2d@westnet.com.au>
Source record: 18151

>>
>
> I'm thinking of getting one of these for the roof:
>
> http://www.eham.net/reviews/detail/315

That's my plan as the garage has a large surface area galvanized steel roof.

Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

428. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 14:05:34 UTC
From: Dave <dave@dave.dave>
Message-ID: <R9CdnR5Exd8z3_LUnZ2dnUVZ_qninZ2d@earthlink.com>
Source record: 18152

Peter wrote:
>> I'm thinking of getting one of these for the roof:
>>
>> http://www.eham.net/reviews/detail/315
>
> That's my plan as the garage has a large surface area galvanized steel roof.
>
>
> Peter VK6YSF
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm
>
>

The Titan DX doesn't require a ground screen of any kind. It has a
built-in counterpoise, and is center-fed.

429. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 14:45:05 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gkni5h$co1o$1@tr22n12.aset.psu.edu>
Source record: 18153

```
Richard Clark wrote:
> On Wed, 14 Jan 2009 16:29:33 -0500, Michael Coslo <mjc5@psu.edu>
> wrote:
>
>> Ed Cregger wrote:
>>
>>> What is truly saddening to me is the amount of philosphy/religion that
>>> creeps into these so called scientific discussions. No wonder antenna
>>> modeling is still mostly an art form and not a science.
>> So right, Ed. Last time I checked, antennas did not have either a
>> liberal or conservative bias.
>
> *** observing nothing technically redeeming in this thread ***

We need a new Punchinello, don't you think?

- 73 de Mike N3LI -
```

430. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 16:13:25 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <i1oum4lhajv2299uucadpo5cfjed97rurc@4ax.com>
Source record: 18154

On Thu, 15 Jan 2009 09:45:05 -0500, Michael Coslo <mjc5@psu.edu>
wrote:

>> *** observing nothing technically redeeming in this thread ***
>
> We need a new Punchinello, don't you think?

Hi Mike,

Too true, instead we have a Howdy Dodat.

73's
Richard Clark, KB7QHC

431. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 16:56:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <54d4cfd5-3e15-43cc-9b64-af9a5588baa8@z27g2000prd.googlegroups.com>
Source record: 18155

```
On Jan 15, 7:35 am, Dave <d...@dave.dave> wrote:
> Richard Fry wrote:
> > On Jan 14, 12:07 am, Art Unwin wrote:
>
> >> It has not yet been proven that current does not flow thru
> >> the center of a radiator.
>
> > Assuming that significant r-f current exists at the center of a
> > radiating conductor, where does it go when it reaches the end of that
> > conductor?
>
> > RF
>
> It doesn't "go" anywhere.  As the conductor (and it's return path;
> ground or whatever) is resonant, the generator sees it as a resistor.
> The current is "absorbed" by this "load".  But instead of pure heat, an
> electromagnetic field ensues.  Nothing goes anywhere.

Methinks you are playing games, current doesn't move but charges do
Very devious
Art
```

432. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 17:00:14 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <145cedee-5460-4778-b312-fd8eb3ddce7b@i20g2000prf.googlegroups.com>
Source record: 18156

On Jan 15, 8:05 am, Dave <d...@dave.dave> wrote:
> Peter wrote:
> >> I'm thinking of getting one of these for the roof:
>
> >>http://www.eham.net/reviews/detail/315
>
> > That's my plan as the garage has a large surface area galvanized steel roof.
>
> > Peter VK6YSF
>
> >http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm
>
> The Titan DX doesn't require a ground screen of any kind. It has a
> built-in counterpoise, and is center-fed.

Are we talking counterpoise or are we talking load?
Art

433. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 17:54:12 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <ILKbl.8870$hc1.1362@flpi150.ffdc.sbc.com>
Source record: 18157

Art Unwin wrote:
> On Jan 14, 8:47 pm, "David G. Nagel" <nagel.da...@sbcglobal.net>
> wrote:
>> Dave wrote:
>>> Art Unwin wrote:
>>>> Remember that it is predicted that our world will flip with respect to
>>>> the poles
>>>> thus the zenith of sun spots will alter by eleven years. Best to learn
>>>> to swim before that happens. Last thing I heard was the magnetic pole
>>>> was in Siberia and still going away. Hopefully there is
>>>> still time for the poles to change their minds and return.
>>>> Art
>>>> Art
>>> The Earth's magnetic field does not affect when sunspots happen.
>> Actually the northern magnetic pole is in Eastern Northern Canada and
>> progressing slowly eastward.
>
> ....
>
> Outch How can I be so wrong? I will blame it on my poor memory.
> I thought its position was in the area of the Berring sea straights
> heading for
> Siberia. Could it be Mrs Palin who said she could see it from her
> house in Alaska
> which is America's NORTH WEST coast. If you feel it is positioned
> between Canada and Greenland more power to you !
> Art
>
> ....
>> The current sunspot cycle is merely slow in appearing. The 11 year cycle
>> is only an average. Some cycles are less than 11 yrs and some are longer.
>>
>> Dave
>

Hay Art. They say the memory is the second thing to go, I forget what is
first. HI HI

The following is from Wikipedia:
In 2001, the North Magnetic Pole was determined by the Geological Survey
of Canada to lie near Ellesmere Island in northern Canada at [show
location on an interactive map] 81ï¿½18?N 110ï¿½48?W? / ?81.3, -110.8?
(Magnetic North Pole 2001). It was estimated to be at [show location on
an interactive map] 82ï¿½42?N 114ï¿½24?W? / ?82.7, -114.4? (Magnetic North
Pole 2005 est) in 2005.

There is a URL link in the actual Wiki listing showing where the mag poles are located. Please refer to Wiki for this information.
I hope you have a Happy New Year.

Dave

434. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 19:07:15 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <sj1vm4p6v47l3b21rp7paeqag2v005vlif@4ax.com>
Source record: 18159

On Thu, 15 Jan 2009 09:00:14 -0800 (PST), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>On Jan 15, 8:05ï¿½am, Dave <d...@dave.dave> wrote:
>counterpoise

>Are we talking counterpoise or are we talking load?

If you are talking, wipe off the screen. I trimmed Dave's post to
reduce confusion - your alternative word, load, never appears.

In fact, we never conjoin the term garage and load, nor roof and load,
nor power lines and load. No, counterpoise has a well known and long
established meaning that has been found in a lot of texts and none of
the authors have ever felt the necessity to join that term with
garage, roof, or power line either.

Perhaps Newton kept his counterpoise in his garage - the historical
record is rather vague on this matter.

73's
Richard Clark, KB7QHC

435. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 19:07:32 UTC
From: kb9rqz@yahoo.com
Message-ID: <f53tm4l82c0hqkbisijeai9btsf450m9fc@4ax.com>
Source record: 18158
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

436. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 19:50:30 UTC
From: JB <nospam@goofball.net>
Message-ID: <asMbl.410$Dx.329@nwrddc02.gnilink.net>
Source record: 18160

"Dave" <dave@dave.dave> wrote in message
news:LeudnaNthtwfKfPUnZ2dnUVZ_g2dnZ2d@earthlink.com...
> Jim-NN7K wrote:
> > One thing further- IF you check, you will see that the Physical
> > Size of a BNC (minus the connector locking outer ring) is the
> > same size as the N fitting! The "N" male will plug into a "BNC"
> > female,the BNC without its locking ring will plug into an "N"female!
> > There are temporary connectors to take advantage of this factor,
> > for testing (not permanent) connectors ! As info, Jim NN7K
> >
> I knew that. I have a home-made pair that I use from time-to-time in
> the lab.

If you don't mind GRONKING the BNC fem on your test equipment. Very
naughty!

Once you do "N" you can't go back.

437. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 20:07:03 UTC
From: JB <nospam@goofball.net>
Message-ID: <HHMbl.411$Dx.117@nwrddc02.gnilink.net>
Source record: 18161

>Israeli
withdrawal starts
to way back of the green line and the
West Bank will extend from the sea to the river and all that is North
For this Iran gives up the atom bomb as must Israel. All this subject
to agreement by Syria, Lebonan,Jordan and Egypt with other arab
>nations on the side lines.

You say you want peace with Israel and America? Only an idiot would believe
that. You just want us all dead. That is your ideology.

438. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 21:48:55 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gkob07$c45$1@news.jpl.nasa.gov>
Source record: 18162

Richard Fry wrote:
> On Jan 14, 12:07 am, Art Unwin wrote:
>
>> It has not yet been proven that current does not flow thru
>> the center of a radiator.
>
> Assuming that significant r-f current exists at the center of a
> radiating conductor, where does it go when it reaches the end of that
> conductor?
>

Ahh.. the famous "boundary condition"..

Say you've got a big bar 100 feet long and a foot in diameter, and you've induced a rf current along it by some means. All those equations with the Bessel functions tell you the magnitude and phase of the current in some infinitely thin slice in the middle.

But, at the end, those equations don't hold. Essentially, the "reverse current" flows radially across the end and forms part of the "forward current" on the surface.

I doubt there is a good analytical solution of this. There's probably some decent approximations (within 5% or something), but anyone who really cares is going to do a FEM analysis of some sort and solve the problem numerically.

> RF

439. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 22:53:32 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <1af4e901-a125-4fad-a358-690c0997552c@x14g2000yqk.googlegroups.com>
Source record: 18163

On Jan 15, 3:48 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> Richard Fry wrote:
> > On Jan 14, 12:07 am, Art Unwin wrote:
>
> >> It has not yet been proven that current does not flow thru
> >> the center of a radiator.
>
> > Assuming that significant r-f current exists at the center of a
> > radiating conductor, where does it go when it reaches the end of that
> > conductor?
>
> Ahh.. the famous "boundary condition"..
>
> Say you've got a big bar 100 feet long and a foot in diameter, and
> you've induced a rf current along it by some means. All those equations
>   with the Bessel functions tell you the magnitude and phase of the
> current in some infinitely thin slice in the middle.
>
> But, at the end, those equations don't hold. Essentially, the "reverse
> current" flows radially across the end and forms part of the "forward
> current" on the surface.
>
> I doubt there is a good analytical solution of this. There's probably
> some decent approximations (within 5% or something), but anyone who
> really cares is going to do a FEM analysis of some sort and solve the
> problem numerically.
>
> > RF

Hmmmm

I think anybody with a education could apply vectors to a full wave
RESONANT radiator with charge and applied current such that Newton's
laws can be shown as being satisfied
Why would anybody shy away from that since we know that there is no
current/ charge flow
on the inside so the vectors will balance. Is there any disagreement
with that aproach.
If so why?
It WILL show agreement with the groups aproach with respect to zero
current / charge flow in the center of a radiator which should make
you all feel good.
Art

Art

440. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 23:00:19 UTC
From: richardharrison@webtv.net
Message-ID: <23614-496FC003-1019@storefull-3172.bay.webtv.net>
Source record: 18164

Art wrote:
"Frank, It has not yet been proven that current does not flow through the center of the radiator."

It definitely has been proven that significant current does not ordinarily flow through the center of a radiating conductor.

Skin effect is an accepted and observed phenomenon.

An RF conductor has a radial E-field, its lines terminating on its surface. Also, the current carrying conductor has has an H-field whose lines encircle it. The E-field lines are not exactly perpendicular to to the conductor`s surface but inclined at a slight angle to it. The surfaces of equal phase are cupped inward slightly on the forward side as if the wave were dragging its feet along the conductor`s surface. The H lines are parallel to the conductor`s surface. Direction of propagation of the energy is at right angles to both the E and H fields, but not quite parallel to the conductor`s surface. It is inclined slightly toward the inside of the conductor. Direction of propagation can be indicated by a vector P. P can be resolved into two components, PL and PR . PL represents the longitudinal component of vector P. PR represents the small amount of energy which is being drained away from the transmitted signal and dissipated as heat in the conductor. Radial E lines of force tilted forward in propagation along the conductor are slowed and short-circuited by the conducting material through which they are moving. This current flowing through the resistance of the conductor causes I squared R losses. It also gives rise to a magnetic field within the conductor which opposes the external H field.

The result of the above is that the density of the current is quite high at the copnductor`s surface, diminishing as we look inward toward the center. The relative phase of the current, in addition, is not the same at all depths; because of the slow velocity of propagation of the wave within the conductor, the phase of the current is progressively delayed as we examine it at greater depths. At some depth, the phase of the current may be 180 degrees behind that of the surface current, which means that it is flowing in the opposite direction! The integral of the current density, integrated over the entire cross-sectional area of the conductor, will of course be equal to the current in the conductor as would be read by an ammeter.

Not all conductors are solid copper or aluminum. Seawater has been thoroughly inveatigated in regard to communication with submarines. Actual RF currents at all depths have been calculated and measured.

Best regards, Richard Harrison, KB5WZI

441. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 23:11:41 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gkofva$n7r$1@news.service.uci.edu>
Source record: 18165

Dave wrote:
> Richard Fry wrote:
>> On Jan 14, 12:07 am, Art Unwin wrote:
>>
>>> It has not yet been proven that current does not flow thru
>>> the center of a radiator.
>>
>> Assuming that significant r-f current exists at the center of a
>> radiating conductor, where does it go when it reaches the end of that
>> conductor?
>>
>> RF
>
>
> It doesn't "go" anywhere. As the conductor (and it's return path;
> ground or whatever) is resonant, the generator sees it as a resistor.
> The current is "absorbed" by this "load". But instead of pure heat, an
> electromagnetic field ensues.

Yes, it's like asking where does the current go in a real big capacitor. Charge flows onto and off of the conductors, and since they're physically large, time is required for the change in field to propagate from one end to the other. We calculate the current flowing along antenna elements. But we can also calculate a current flowing through the aether based on the same principles. Perhaps knowing the magnitude of the field traveling the element would be at least as useful as knowing the magnitude of the current. The two are after all inextricably liked.

> Nothing goes anywhere.

Indeed. I like it. It's leads me postulate further that nothing goes everywhere; anything goes nowhere; everything goes anywhere; anything goes everywhere; nothing goes nowhere; or perhaps even that everything goes nowhere.

ac6xg

442. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-15 23:44:03 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <8fivm4djtgepao8qmabgiphv8gjebfio7f@4ax.com>
Source record: 18166

On Thu, 15 Jan 2009 14:53:32 -0800 (PST), Art Unwin
<ArthurUnwin@gmail.com> wrote:

> I think anybody with a education could apply vectors to a full wave
>RESONANT radiator with charge and applied current such that Newton's
>laws can be shown as being satisfied

Education?

Vectors?

Laws?

This is tales from the crypt of dead white scientists. I already
showed two ways to DO IT - who needs to go to a library? Only gurus
and those who dress like them.

73's
Richard Clark, KB7QHC

443. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 00:36:39 UTC
From: kb9rqz@yahooo.com
Message-ID: <3hlvm4tsjtjvilgan4enlmmvecb5ldfkqa@4ax.com>
Source record: 18167
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

444. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 01:31:44 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <4sRbl.5037$Db2.3818@edtnps83>
Source record: 18168

>Frank,
>It has not yet been proven that current does not flow thru the center
>of a radiator.

I thought I did prove it at:
http://www3.telus.net/nighttrainexpress/skin%20depth.htm
Or are you saying that the developers of FEM software at Ansoft,
CST Microwave, and many others do not know what they
are doing? FEM software (and NEC) has been verified countless
times experimentally. Are you saying that nobody knows how to
use test equipment. Check out the testimonials for CST at:
https://www.cst.com/Content/Company/Testimonials.aspx
In fact there is a procedure that will measure the distribution
of current through a cylindrical conductor.

>I see it as a manufactured statement to satisfy the idea of an
>uncompleted circuit where the current
>passes over or thru and in a different direction than the same current
>that generates its existence !
>It does all this where the books state it is a series circuit where
>the paths taken by the current are not identical. Why manufacture all
>these happenings to prove what is just a theory, while at the same
>time destroying the reasoning of a closed circuit without an
>explanation how such actions
>creat radiation, especially when it is admitted that radiation is not
>fully understood?

It sounds like you are confusing this with a DC circuit.

>I think the time as come to review again from the time of Maxwell and
>build up afresh in line with
>a century of findings and then re evaluate.
>A good start would be to evaluate why antenna programs based on
>Maxwells laws provide solutions based on equilibrium while discarding

How do you know the programs are based on "Equilibrium"? --
Whatever that means. Can you provide any mathematical or
experimental evidence. Since you have admitted you do not
understand high school math how can you possibly make such
statements.

>all other designs. Saying that it can't be! Because" "if true it
>would have been discovered a 100 years ago" while silently adding "all
>is known about antennas and the patent offices should be closed".

Judging by the "IEEE Transactions on Antennas and Propagation"
nobody thinks all is known about antennas.

>Regards
>Art

445. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 01:59:09 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <_RRbl.13799$YU2.8341@nlpi066.nbdc.sbc.com>
Source record: 18169

JB wrote:
>> Israeli
> withdrawal starts
> to way back of the green line and the
> West Bank will extend from the sea to the river and all that is North
> For this Iran gives up the atom bomb as must Israel. All this subject
> to agreement by Syria, Lebonan,Jordan and Egypt with other arab
>> nations on the side lines.
>
> You say you want peace with Israel and America? Only an idiot would believe
> that. You just want us all dead. That is your ideology.
>

Ah, shut up, JB, this is completely off-topic. You want all of them
dead, too, so you're even. Go to the talkback on Al Jazeera and thwack a
bible in their faces if you want to, but when you post here, make your
post say something about antennas.
73,
Tom Donaly, KA6RUH

446. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 02:39:19 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3bb72263-2e66-4cdb-b9c3-ebfbffa3eed4@h41g2000yqn.googlegroups.com>
Source record: 18170

On Jan 15, 7:31 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> >Frank,
> >It has not yet been proven that current does not flow thru the center
> >of a radiator.
>
> I thought I did prove it at:http://www3.telus.net/nighttrainexpress/skin%20depth.htm
> Or are you saying that the developers of FEM software at Ansoft,
> CST Microwave, and many others do not know what they
> are doing? FEM software (and NEC) has been verified countless
> times experimentally. Are you saying that nobody knows how to
> use test equipment. Check out the testimonials for CST
at:https://www.cst.com/Content/Company/Testimonials.aspx
> In fact there is a procedure that will measure the distribution
> of current through a cylindrical conductor.
>
> >I see it as a manufactured statement to satisfy the idea of an
> >uncompleted circuit where the current
> >passes over or thru and in a different direction than the same current
> >that generates its existence !
> >It does all this where the books state it is a series circuit where
> >the paths taken by the current are not identical. Why manufacture all
> >these happenings to prove what is just a theory, while at the same
> >time destroying the reasoning of a closed circuit without an
> >explanation how such actions
> >creat radiation, especially when it is admitted that radiation is not
> >fully understood?
>
> It sounds like you are confusing this with a DC circuit.
>
> >I think the time as come to review again from the time of Maxwell and
> >build up afresh in line with
> >a century of findings and then re evaluate.
> >A good start would be to evaluate why antenna programs based on
> >Maxwells laws provide solutions based on equilibrium while discarding
>
> How do you know the programs are based on "Equilibrium"? --
> Whatever that means. Can you provide any mathematical or
> experimental evidence. Since you have admitted you do not
> understand high school math how can you possibly make such
> statements.
>
> >all other designs. Saying that it can't be! Because" "if true it
> >would have been discovered a 100 years ago" while silently adding "all
> >is known about antennas and the patent offices should be closed".

>
> Judging by the "IEEE Transactions on Antennas and Propagation"
> nobody thinks all is known about antennas.
>
> >Regards
> >Art

I thought it would be better to accept the responses of the news group as factual.
Now I must determine why equilibrium is not understood as this is a requirement
for any radiator vector diagram. I have quite a lot of books that were recommended
reading in US Universities so I will read thru those for what they say about equilibrium and why it has been dumped or if Newtons laws have been corrected e.t.c. Without an understanding of equilibrium all physics as I know it falls apart!. Thus a chasm is in place between me and the group and I have to search for the reason.

Thanks to all for your inputs
Art

447. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 14:34:42 UTC
From: Dave <dave@dave.dave>
Message-ID: <3YWdnYhIa-yfBu3UnZ2dnUVZ_hUAAAAA@earthlink.com>
Source record: 18171

Richard Clark wrote:
> On Thu, 15 Jan 2009 09:00:14 -0800 (PST), Art Unwin
> <ArthurUnwin@gmail.com> wrote:
>
>> On Jan 15, 8:05 am, Dave <d...@dave.dave> wrote:
>> counterpoise
>
>> Are we talking counterpoise or are we talking load?
>
> If you are talking, wipe off the screen. I trimmed Dave's post to
> reduce confusion - your alternative word, load, never appears.
>
> In fact, we never conjoin the term garage and load, nor roof and load,
> nor power lines and load. No, counterpoise has a well known and long
> established meaning that has been found in a lot of texts and none of
> the authors have ever felt the necessity to join that term with
> garage, roof, or power line either.
>
> Perhaps Newton kept his counterpoise in his garage - the historical
> record is rather vague on this matter.
>
> 73's
> Richard Clark, KB7QHC

It's a capacitor.

448. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 14:39:40 UTC
From: Dave <dave@dave.dave>
Message-ID: <c8qdna8zGqawAe3UnZ2dnUVZ_gGdnZ2d@earthlink.com>
Source record: 18172

JB wrote:
> "Dave" <dave@dave.dave> wrote in message
> news:LeudnaNthtwfKfPUnZ2dnUVZ_g2dnZ2d@earthlink.com...
>> Jim-NN7K wrote:
>>> One thing further- IF you check, you will see that the Physical
>>> Size of a BNC (minus the connector locking outer ring) is the
>>> same size as the N fitting! The "N" male will plug into a "BNC"
>>> female,the BNC without its locking ring will plug into an "N"female!
>>> There are temporary connectors to take advantage of this factor,
>>> for testing (not permanent) connectors ! As info, Jim NN7K
>>>
>> I knew that. I have a home-made pair that I use from time-to-time in
>> the lab.
>
> If you don't mind GRONKING the BNC fem on your test equipment. Very
> naughty!
>
> Once you do "N" you can't go back.
>

???

I busted the rings off plain old 50 Ohm BNC cables, at the far end. How does this threaten my Rohde and Schwarz? We never use N cables. We "permanently" adapt any N fittings to BNC. I made the cables to test a 75 MHz transmitter with reverse thread TNC fittings. How many people keep reverse thread TNC cables around?

449. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 14:45:34 UTC
From: Dave <dave@dave.dave>
Message-ID: <ypadnXiqapYTAO3UnZ2dnUVZ_rrinZ2d@earthlink.com>
Source record: 18173

Dave wrote:
> JB wrote:

>>
>
> ???
>
> I busted the rings off plain old 50 Ohm BNC cables, at the far end. How
> does this threaten my Rohde and Schwarz? We never use N cables. We
> "permanently" adapt any N fittings to BNC. I made the cables to test a
> 75 MHz transmitter with reverse thread TNC fittings. How many people
> keep reverse thread TNC cables around?

http://nocat.net/connectors.html

450. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 15:42:11 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <xT1cl.5204$MT3.1886@bignews4.bellsouth.net>
Source record: 18174

```
"ml" <m@di.net> wrote in message
news:m-7CAB5F.18225014012009@news.optonline.net...
> In article <VGNal.3056$Qa.1611@bignews2.bellsouth.net>,
> "Ed Cregger" <ecregger@bellsouff.net> wrote:
>
>> "Michael Coslo" <mjc5@psu.edu> wrote in message
>> news:gkg4in$bs6c$1@tr22n12.aset.psu.edu...
>> > Ed Cregger wrote:
>> >
>> >> That has been on my mind also. We do having a significant slowing of
>> >> the
>> >> current known as the Atlantic Conveyor over the last several years.
>> >> That
>> >> does not bode well for Europe/England just by itself.
>> >>
>> >> I was looking forward to one more active sunspot cycle before I died
>> >> (I'm
>> >> a six meter fan), but it doesn't appear that we are going to have one,
>> >> if
>> >> present trends continue.
>> >>
>> >> Of course, just when you think you have Mother Nature all figured
>> >> out -
>> >> she comes out of left field with some new phenomenon that catches us
>> >> by
>> >> surprise. For instance, the Yellowstone super caldera. If that were to
>> >> erupt, it would mean an Ice Age for sure. Or would it?
>> >
>> >
>> > Anyone keeping tabs on the earthquake activity in Yellowstone?
>> >
>> >
>> > http://volcanoes.usgs.gov/yvo/
>> >
>> >
>> >
>> >
>> > - 73 de Mike N3LI -
>>
>> -------------
>>
>> Somewhat. That would definitely bring on an Ice Age, should it have a
>> full
>> scale eruption. Never a boring moment.
```

>>
>> Ed, N2ECW
>
> sigh, like many i've been waiting for the bands to come alive and
> start jumping
>
> hopfully it's just a bit of a delay and not a way way long term wait
>
> but i guess the only thing worse then many more years of dead bands
> would be for the world to end egads if that happens i can always
> do EME but its not the same

I'm with you. I don't want our present civilization to collapse either.

Will the Sun bounce back to normal? Some say it isn't truly abnormal yet. Me, I don't know the answer, but I'm running out of time, as are we all. I'd like for this Cycle to come forth and provide we amateur radio ops with some good six meter propagation. It could happen.

Ed, N2ECW

451. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 18:18:19 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <Lb4cl.5282$PH1.4543@edtnps82>
Source record: 18175

>I thought it would be better to accept the responses of the
>news group as factual. Now I must determine why
>equilibrium is not understood as this is a requirement for
>any radiator vector diagram.

It would be interesting to know exactly what you mean by
the term: "Radiator vector diagram".

>I have quite a lot of books that were recommended reading
>in US Universities so I will read thru those for what they say
>about equilibrium........

I have 9 books on electromagnetics and antennas. The word
"Equiblibrium" does not appear in any of the indexes.

>......and why it has been dumped or if Newtons laws have
>been corrected e.t.c. Without an understanding of equilibrium all
>physics as I know it falls apart!. Thus a chasm is in place between me
>and the group and I have to search for the reason.

There has been no correction to Newtonian mechanics, and there
is no violation of Newton's laws in electromagnetics.

As for reading books on electromagnetics. I cannot understand how
it is possible without knowledge of math. Do you understand any
of the following?: line integral, surface integral, volume integral,
vector "dot" product, vector "cross" product, gradient, divergence,
curl, "Del", and vector magnetic potential. With these tools
it is possible to calculate the E and H fields at a point in space --
based on an assumption of current distribution. The hard part
of computational electromagnetics is to determine the actual
current distribution on a radiator.

>Thanks to all for your inputs
>Art

73,

Frank

452. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 19:28:28 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3ab2018f-0e26-4970-88f7-eeb493e1efe2@q30g2000prq.googlegroups.com>
Source record: 18176

On Jan 16, 12:18 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
> >I thought it would be better to accept the responses of the
> >news group as factual. Now I must determine why
> >equilibrium is not understood as this is a requirement for
> >any radiator vector diagram.
>
> It would be interesting to know exactly what you mean by
> the term: "Radiator vector diagram".
>
> >I have quite a lot of books that were recommended reading
> >in US Universities so I will read thru those for what they say
> >about equilibrium........
>
> I have 9 books on electromagnetics and antennas. The word
> "Equiblibrium" does not appear in any of the indexes.
>
> >......and why it has been dumped or if Newtons laws have
> >been corrected e.t.c. Without an understanding of equilibrium all
> >physics as I know it falls apart!. Thus a chasm is in place between me
> >and the group and I have to search for the reason.
>
> There has been no correction to Newtonian mechanics, and there
> is no violation of Newton's laws in electromagnetics.
>
> As for reading books on electromagnetics. I cannot understand how
> it is possible without knowledge of math. Do you understand any
> of the following?: line integral, surface integral, volume integral,
> vector "dot" product, vector "cross" product, gradient, divergence,
> curl, "Del", and vector magnetic potential. With these tools
> it is possible to calculate the E and H fields at a point in space --
> based on an assumption of current distribution. The hard part
> of computational electromagnetics is to determine the actual
> current distribution on a radiator.
>
> >Thanks to all for your inputs
> >Art
>
> 73,
>
> Frank

Frank
As I said earlier, I accept the thought of forward and reverse flow
of AC current together with the resulting contra flow of Eddy currents

on different levels of the surface of a radiator, all at the same time. Thus at this time there is no pressing reason to expose myself further in terms of the education that I have retained. Now that Richard's book has substantiated my aproach via Gauss
I can now procede in the direction of antennas that are not in a straight line and at varying elevations. Programs on antennas are available for the user to follow this cause of action which are committed to Maxwells laws so these efforts will not resolve around my personal thoughts, just arrays that are termed in equilibrium and the existance of particles with respect to radiation.
From the very start, when I extended Gaussian law of statics to that of Maxwell, I have sought council to the effect that consequent determinations prove the action of particles. Postings pretty much accept that antenna programs are correct thus I can realistically use that as a proof.
It is not necessary for everybody to accept this line of thought especially when equilibrium, a staple part of Gaussian law, is not accepted or understood. This particular debate has extended for about a decade from when I postulated that a tank circuit provides radiation in a series of pulses and not waves, I have not altered any thinking on this group so I am calling that particu;ar debate a washout and thus will concentrate on commenting on cantenna questions and the like.
Art Unwin......KB9MZ..xg....(uk)

453. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 19:36:20 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <kbg1n4lmjuil9ldj21sqju77iteqt5grpt@4ax.com>
Source record: 18177

On Fri, 16 Jan 2009 14:34:42 +0000, Dave <dave@dave.dave> wrote:

>> Perhaps Newton kept his counterpoise in his garage - the historical
>> record is rather vague on this matter.
>>
>
>It's a capacitor.

History informs us he would have called it a condenser, your word came
into the language later from Le Compte a'Citor, Gauss's French Pen-Pal
from junior high.

73's
Richard Clark, KB7QHC

454. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 20:01:07 UTC
From: kb9rqz@yahoooo.com
Message-ID: <5o30n49ajesqjrm08ocfndsdikmkmmt5sb@4ax.com>
Source record: 18178
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

455. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 20:32:24 UTC
From: JB <nospam@goofball.net>
Message-ID: <s96cl.47$Aw2.41@nwrddc02.gnilink.net>
Source record: 18179

> Ah, shut up, JB, this is completely off-topic. You want all of them
> dead, too, so you're even. Go to the talkback on Al Jazeera and thwack a
> bible in their faces if you want to, but when you post here, make your
> post say something about antennas.
> 73,
> Tom Donaly, KA6RUH

You shut up, Tom! Go back to your own country! Quit putting words in my mouth that come out of your head. I never wished anyone dead and I certainly don't march in the streets screaming for it, I don't teach it in the schools, and I certainly didn't VOTE FOR IT!

A topic was raised that is indefensible. If some Hamas team moved into my house, I would sooner catch a bullet in the back walking away than participate in random civilian attacks. But I suppose that opportunity never got in your face because of where you live. It's people like you that legitimize terrorism by defending it. Shame on you both.

456. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 20:41:59 UTC
From: JB <nospam@goofball.net>
Message-ID: <ri6cl.49$Aw2.6@nwrddc02.gnilink.net>
Source record: 18180

>> The "N" male will plug into a "BNC"
> >>> female,the BNC without its locking ring will plug into an "N"female!

The N male pin is usually larger than the BNC fem center receptacle. This
results in a BNC female with increased loss or breakage due to fatigue.
This was known in the extended technical community of my experience as a
GRONK!

457. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 21:50:33 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Ji7cl.71$aI1.0@nwrddc01.gnilink.net>
Source record: 18181

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:3ab2018f-0e26-4970-88f7-eeb493e1efe2@q30g2000prq.googlegroups.com...
On Jan 16, 12:18 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
>It is not necessary for everybody to accept this line of thought

thats good, because nobody on here does.

>especially when equilibrium, a staple part of Gaussian law, is not

'equilibrium' is neither required nor a desired part of Gauss's law... which
as i have pointed out has been a part of maxwell's equations since the very
beginning, without any help from you.

>accepted or understood. This particular debate has extended for about
>a decade from when I postulated that a tank circuit provides radiation
>in a series of pulses and not waves, I have not altered any thinking
>on this group so I am calling that particu;ar debate a washout and
>thus will concentrate on commenting on cantenna questions and the
>like.
>Art Unwin......KB9MZ..xg....(uk)

good, go after the cantennas... and don't forget the vent hole to let the
levitating neutrinos escape when they reach the end of the diamagnetic
resistor... the can is probably ferromagnetic so they'll be trapped inside
and explode otherwise!

458. Re: cantenna [salt water dummy loads]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 21:59:29 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <7r7cl.115209$2w3.114081@newsfe19.iad>
Source record: 18182

"Jim-NN7K" <nn7kexk7zfg@noway.net.> wrote in message
news:Yddbl.1948$%54.1321@nlpi070.nbdc.sbc.com...
> One other thing might check out, is the Salt Water Dummy Loads
> (on several web sites). One mearly uses (can, Jar with lid),
> and with metal plates attached to coax connector, filled
> with salt water - Fill with water, then with ohm meter , add
> Salt until the brine hits 50 ohms! Tho, don't know how high
> frequency it is reliable to, should work to at least 50 MHz.
> Jim NN7K

Back in the mid-1960's there was an article in QST where they did this. The load will definitely be frequency dependent as demonstrated by experimental results. Also the salt used will effect the results. From a theoretical standpoint, the mobility of ions is dependent on the size of the ion. The bigger the ion, the slower it will move. This conveniently explains much of what is seen in ground losses and is why electrolytic capacitors are essentially useless above 1 MHz. The ions cannot move fast enough in the small times seen per cycle, so the current falls off. Ion mobility also decreases as the temperature drops which explains why electrolytic capacitors also do poorly at low temperatures.

I have done as Jim suggested when testing a kilowatt amplifier on 80 Meters. The load is useless if the water boils!

73, Dr. Barry L. Ornitz WA4VZQ

459. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 22:02:36 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <_I7cl.4654$Jn4.3233@bignews7.bellsouth.net>
Source record: 18183

"Dave" <noone@nowhere.com> wrote in message
news:Ji7cl.71$aI1.0@nwrddc01.gnilink.net...
>
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:3ab2018f-0e26-4970-88f7-eeb493e1efe2@q30g2000prq.googlegroups.com...
> On Jan 16, 12:18 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
>>It is not necessary for everybody to accept this line of thought
>
> thats good, because nobody on here does.
>
>>especially when equilibrium, a staple part of Gaussian law, is not
>
> 'equilibrium' is neither required nor a desired part of Gauss's law...
> which as i have pointed out has been a part of maxwell's equations since
> the very beginning, without any help from you.
>
>>accepted or understood. This particular debate has extended for about
>>a decade from when I postulated that a tank circuit provides radiation
>>in a series of pulses and not waves, I have not altered any thinking
>>on this group so I am calling that particu;ar debate a washout and
>>thus will concentrate on commenting on cantenna questions and the
>>like.
>>Art Unwin......KB9MZ..xg....(uk)
>
> good, go after the cantennas... and don't forget the vent hole to let the
> levitating neutrinos escape when they reach the end of the diamagnetic
> resistor... the can is probably ferromagnetic so they'll be trapped inside
> and explode otherwise!
>

In a millenium, folks will look back and view Art as their EMR guru. He was the first to advocate Zen EMR Theory to the unwashed. No offense to anyone is intended.

Ed, N2ECW

460. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 22:04:44 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <8G2MC9M8RQcJFwYP@g3ohx.demon.co.uk>
Source record: 18184

In message <c8qdna8zGqawAe3UnZ2dnUVZ_gGdnZ2d@earthlink.com>, Dave
<dave@dave.dave> writes
>JB wrote:
>> "Dave" <dave@dave.dave> wrote in message
>> news:LeudnaNthtwfKfPUnZ2dnUVZ_g2dnZ2d@earthlink.com...
>>> Jim-NN7K wrote:
>>>> One thing further- IF you check, you will see that the Physical
>>>> Size of a BNC (minus the connector locking outer ring) is the
>>>> same size as the N fitting! The "N" male will plug into a "BNC"
>>>> female,the BNC without its locking ring will plug into an "N"female!
>>>> There are temporary connectors to take advantage of this factor,
>>>> for testing (not permanent) connectors ! As info, Jim NN7K
>>>>
>>> I knew that. I have a home-made pair that I use from time-to-time in
>>> the lab.
>> If you don't mind GRONKING the BNC fem on your test equipment. Very
>> naughty!
>> Once you do "N" you can't go back.
>>
>
>???
>
>I busted the rings off plain old 50 Ohm BNC cables, at the far end. How
>does this threaten my Rohde and Schwarz? We never use N cables. We
>"permanently" adapt any N fittings to BNC. I made the cables to test a
>75 MHz transmitter with reverse thread TNC fittings. How many people
>keep reverse thread TNC cables around?

Unless I'm losing the plot, the 'innards' of 50 ohm N and BNC connectors
are compatible, and can be mated. This is NOT true for 75 ohm versions.

For N-connectors, there is a noticeable difference in the diameters of
the male pin and the female receptacle (?). The diameter of the 75 ohm
is much less than that of the 50 ohm. If you insert a 50 ohm male into a
75 ohm female, you will splay the leaves and almost certainly case
irreparable damage. However, if you insert a 75 ohm male into a 50 ohm
female, it won't make contact (unless you first cunningly insert a short
piece of wire into the female).

For BNC connectors, 50 ohm CAN mate with 75 ohm, and vice versa. This is
because the dimensions are essentially identical (although the 75 ohm
male pin is sometimes more tapered). The difference of impedance is
achieved mainly by having much less PTFE dielectric in the 75 ohm
version.

As the 50 and 75 ohm BNC male pin is the same diameter as the 50 ohm N male pin, you must never insert either a 50 or 75 ohm BNC male into a 75 ohm N female. However, you CAN insert a 50 ohm N male into either a 50 or 75 ohm BNC female. However, if you insert a 75 ohm N male into either a 50 or 75 ohm BNC female, it almost certainly won't make contact.
--
Ian

461. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-16 22:52:30 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Oc8cl.80$aI1.63@nwrddc01.gnilink.net>
Source record: 18185

"Ed Cregger" <ecregger@bellsouff.net> wrote in message
news:_l7cl.4654$Jn4.3233@bignews7.bellsouth.net...
>
> "Dave" <noone@nowhere.com> wrote in message
> news:Ji7cl.71$aI1.0@nwrddc01.gnilink.net...
>>
>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>> news:3ab2018f-0e26-4970-88f7-eeb493e1efe2@q30g2000prq.googlegroups.com...
>> On Jan 16, 12:18 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
>>>It is not necessary for everybody to accept this line of thought
>>
>> thats good, because nobody on here does.
>>
>>>especially when equilibrium, a staple part of Gaussian law, is not
>>
>> 'equilibrium' is neither required nor a desired part of Gauss's law...
>> which as i have pointed out has been a part of maxwell's equations since
>> the very beginning, without any help from you.
>>
>>>accepted or understood. This particular debate has extended for about
>>>a decade from when I postulated that a tank circuit provides radiation
>>>in a series of pulses and not waves, I have not altered any thinking
>>>on this group so I am calling that particu;ar debate a washout and
>>>thus will concentrate on commenting on cantenna questions and the
>>>like.
>>>Art Unwin......KB9MZ..xg....(uk)
>>
>> good, go after the cantennas... and don't forget the vent hole to let the
>> levitating neutrinos escape when they reach the end of the diamagnetic
>> resistor... the can is probably ferromagnetic so they'll be trapped
>> inside and explode otherwise!
>>
>
> --------
>
> In a millenium, folks will look back and view Art as their EMR guru. He
> was the first to advocate Zen EMR Theory to the unwashed. No offense to
> anyone is intended.
>
> Ed, N2ECW
>

ommmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm

462. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 01:30:29 UTC
From: dloyd@gmail.com
Message-ID: <dba2n4tn3s5oecm9jlc2tqq8k6b9f3keuv@4ax.com>
Source record: 18186
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

463. Re: cantenna [salt water dummy loads]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 01:44:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ptd2n4t05esbo42ao3nltl7ur2s804c1pr@4ax.com>
Source record: 18187

On Fri, 16 Jan 2009 16:59:29 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>I have done as Jim suggested when testing a kilowatt amplifier on 80
>Meters. The load is useless if the water boils!

Is this the dawn of another debate over power in standing waves?

73's
Richard Clark, KB7QHC

464. loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 02:52:46 UTC
From: Tad Danley <tdanley@nospamatverizon.net>
Message-ID: <2Kbcl.113$Aw2.81@nwrddc02.gnilink.net>
Source record: 18188

I have started to experiment with EZNEC and am modeling a couple of loop antennas including some delta loops. I see references to hams using 4:1 baluns with these antennas, but the models I see show a feed point impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help - what am I missing?

Thanks and 73,

Tad Danley, K3TD

465. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 05:27:55 UTC
From: jimlux@earthlink.net
Message-ID: <fbfa1465-a4a3-4d45-92f2-e9c5a27fa608@v5g2000prm.googlegroups.com>
Source record: 18189

On Jan 16, 6:52 pm, Tad Danley <tdan...@nospamatverizon.net> wrote:
> I have started to experiment with EZNEC and am
> modeling a couple of loop antennas including
> some delta loops. I see references to hams
> using 4:1 baluns with these antennas, but the
> models I see show a feed point impedance of
> roughly 100 ohms. I'm not sure how a 4:1 balun
> would help - what am I missing?
>
> Thanks and 73,
>
> Tad Danley, K3TD

It's harder to build a 2:1 balun.. a 4:1 is a 2:1 turns ratio, and
more common (yes, one can do 3:2, that's 1.5:1 turns, 2:25:1 Z)

466. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 06:06:58 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <7Aecl.71657$JA5.65286@newsfe08.iad>
Source record: 18190
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"Jim-NN7K" <nn7kexk7zfg@noway.net.> wrote in message
news:Yddbl.1948$%54.1321@nlpi070.nbdc.sbc.com...
> One other thing might check out, is the Salt Water Dummy Loads
> (on several web sites). One mearly uses (can, Jar with lid),
> and with metal plates attached to coax connector, filled
> with salt water - Fill with water, then with ohm meter , add
> Salt until the brine hits 50 ohms! Tho, don't know how high
> frequency it is reliable to, should work to at least 50 MHz.
> Jim NN7K

Generator tests (60 or 400 Hz, multi-KW) are routinely performed with a trailer-mounted device called a load bank, where plates are immersed into a tank of salt water. The depth of the plates determines the load resistance.

467. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 06:33:45 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <eZecl.121831$2w3.37004@newsfe19.iad>
Source record: 18191

"Ed Cregger" <ecregger@bellsouff.net> wrote in message
news:xT1cl.5204$MT3.1886@bignews4.bellsouth.net...

> ... I'm running out of time, as are we all. I'd
> like for this Cycle to come forth ...

I'll be 66 in a few weeks. If I have to wait for Cycle 25 to peak, that'll put me beyond 80. But even with poor propagation, it's never zero, especially on 20m and below, so I do what I can.

I enjoyed a few days of good propagation on 10m last year and I worked into South America barefoot. The antenna was a dipole made of TV antenna elements bolted together and laying on the garage roof. Really.

468. Re: Stop Israeli terrorism against Palestine's children

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 07:05:17 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <Bofcl.234$Lr6.189@flpi143.ffdc.sbc.com>
Source record: 18192

JB wrote:
>> Ah, shut up, JB, this is completely off-topic. You want all of them
>> dead, too, so you're even. Go to the talkback on Al Jazeera and thwack a
>> bible in their faces if you want to, but when you post here, make your
>> post say something about antennas.
>> 73,
>> Tom Donaly, KA6RUH
>
> You shut up, Tom! Go back to your own country! Quit putting words in my
> mouth that come out of your head. I never wished anyone dead and I
> certainly don't march in the streets screaming for it, I don't teach it in
> the schools, and I certainly didn't VOTE FOR IT!
>
> A topic was raised that is indefensible. If some Hamas team moved into my
> house, I would sooner catch a bullet in the back walking away than
> participate in random civilian attacks. But I suppose that opportunity
> never got in your face because of where you live. It's people like you
> that legitimize terrorism by defending it. Shame on you both.
>

You're still off topic. Take your paranoia to where it's appreciated,
not here.
73,
Tom Donaly, KA6RUH

469. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 09:19:34 UTC
From: LAB <no@mail.com>
Message-ID: <gks7qvfe1@serv1.iunet.it>
Source record: 18193

7:5 turns ratio is 2:1 balun;
3:2 turns, as suggested, is 2.25:1: SWR 1.1:1 is good...

Gianluca

470. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 12:13:23 UTC
From: Dave <noone@nowhere.com>
Message-ID: <DXjcl.170$aI1.41@nwrddc01.gnilink.net>
Source record: 18194

"Tad Danley" <tdanley@nospamatverizon.net> wrote in message
news:2Kbcl.113$Aw2.81@nwrddc02.gnilink.net...
>I have started to experiment with EZNEC and am modeling a couple of loop
>antennas including some delta loops. I see references to hams using 4:1
>baluns with these antennas, but the models I see show a feed point
>impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help -
>what am I missing?
>
> Thanks and 73,
>
> Tad Danley, K3TD

the simpler match is 1/4 wave of 75 ohm cable.

471. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 12:57:50 UTC
From: LAB <no@mail.com>
Message-ID: <gkskk8pli1@serv1.iunet.it>
Source record: 18198

>> the simpler match is 1/4 wave of 75 ohm cable.

For a narrow band...

Gianluca

472. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 13:01:58 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <9JKdnQ0xNr5XS-zUnZ2dnUVZ8tvinZ2d@bt.com>
Source record: 18195

"Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
news:8G2MC9M8RQcJFwYP@g3ohx.demon.co.uk...
- snip -.

> Unless I'm losing the plot, the 'innards' of 50 ohm N and BNC connectors
> are compatible, and can be mated. This is NOT true for 75 ohm versions.
>
> For N-connectors, there is a noticeable difference in the diameters of the
> male pin and the female receptacle (?). The diameter of the 75 ohm is much
> less than that of the 50 ohm. If you insert a 50 ohm male into a 75 ohm
> female, you will splay the leaves and almost certainly case irreparable
> damage. However, if you insert a 75 ohm male into a 50 ohm female, it
> won't make contact (unless you first cunningly insert a short piece of
> wire into the female).
>
> For BNC connectors, 50 ohm CAN mate with 75 ohm, and vice versa. This is
> because the dimensions are essentially identical (although the 75 ohm male
> pin is sometimes more tapered). The difference of impedance is achieved
> mainly by having much less PTFE dielectric in the 75 ohm version.
>
> As the 50 and 75 ohm BNC male pin is the same diameter as the 50 ohm N
> male pin, you must never insert either a 50 or 75 ohm BNC male into a 75
> ohm N female. However, you CAN insert a 50 ohm N male into either a 50 or
> 75 ohm BNC female. However, if you insert a 75 ohm N male into either a 50
> or 75 ohm BNC female, it almost certainly won't make contact.
> --
> Ian

So refreshing to see someone stating it correctly when all around there are
folk who harbour mistaken beliefs that 50 and 75 ohm BNC pins have different
mating diameters. What I find odd is that so many people who claim the
contrary appear to have unshakable belief, almost like a religion,
irrespective of what the manufacturers' engineering drawings actually show.

Chris

473. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 13:25:15 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <WSkcl.4906$Jn4.4534@bignews7.bellsouth.net>
Source record: 18196

"Tad Danley" <tdanley@nospamatverizon.net> wrote in message
news:2Kbcl.113$Aw2.81@nwrddc02.gnilink.net...
>I have started to experiment with EZNEC and am modeling a couple of loop
>antennas including some delta loops. I see references to hams using 4:1
>baluns with these antennas, but the models I see show a feed point
>impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help -
>what am I missing?
>
> Thanks and 73,
>
> Tad Danley, K3TD

I am beginning to suspect that traditionally made baluns are not as exact in practice as they are theoretically. This is not a surprise, really. Few things in electronics are exact as we humans like to assume, as you well know.

Good seeing your post, OM.

Ed Cregger, N2ECW former NM2K

474. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 13:27:42 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <cVkcl.4907$Jn4.2102@bignews7.bellsouth.net>
Source record: 18197

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
news:eZecl.121831$2w3.37004@newsfe19.iad...
>
> "Ed Cregger" <ecregger@bellsouff.net> wrote in message
> news:xT1cl.5204$MT3.1886@bignews4.bellsouth.net...
>
>
>> ... I'm running out of time, as are we all. I'd
>> like for this Cycle to come forth ...
>
> I'll be 66 in a few weeks. If I have to wait for Cycle 25 to peak,
> that'll
> put me beyond 80. But even with poor propagation, it's never zero,
> especially on 20m and below, so I do what I can.
>
> I enjoyed a few days of good propagation on 10m last year and I worked
> into
> South America barefoot. The antenna was a dipole made of TV antenna
> elements bolted together and laying on the garage roof. Really.

I understand your thought, Sam. And you are right. Make do with what you
have and have a great time anyway.

Ed, N2ECW

475. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 13:40:34 UTC
From: Dave <noone@nowhere.com>
Message-ID: <mdlcl.178$Aw2.22@nwrddc02.gnilink.net>
Source record: 18199

```
"Ed Cregger" <ecregger@bellsouff.net> wrote in message
news:WSkcl.4906$Jn4.4534@bignews7.bellsouth.net...
>
> "Tad Danley" <tdanley@nospamatverizon.net> wrote in message
> news:2Kbcl.113$Aw2.81@nwrddc02.gnilink.net...
>>I have started to experiment with EZNEC and am modeling a couple of loop
>>antennas including some delta loops. I see references to hams using 4:1
>>baluns with these antennas, but the models I see show a feed point
>>impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help -
>>what am I missing?
>>
>> Thanks and 73,
>>
>> Tad Danley, K3TD
>
> --------
>
> I am beginning to suspect that traditionally made baluns are not as exact
> in practice as they are theoretically. This is not a surprise, really. Few
> things in electronics are exact as we humans like to assume, as you well
> know.
>

the baluns are exact, the practical antennas aren't.
```

476. Re: Vertical antenna for DX

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 13:53:29 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <yplcl.150717$NN4.146167@en-nntp-08.dc1.easynews.com>
Source record: 18200

Richard Clark wrote:
> On Fri, 16 Jan 2009 14:34:42 +0000, Dave <dave@dave.dave> wrote:
>
>>> Perhaps Newton kept his counterpoise in his garage - the historical
>>> record is rather vague on this matter.
>>>
>> It's a capacitor.
>
> History informs us he would have called it a condenser, your word came
> into the language later from Le Compte a'Citor, Gauss's French Pen-Pal
> from junior high.
>
> 73's
> Richard Clark, KB7QHC

Yep, they were all still 'condensers' when I got my first license in '57.

Old as dirt?

W5MTV

477. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 15:15:38 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Lxmcl.11174$D32.2565@flpi146.ffdc.sbc.com>
Source record: 18101

Tad Danley wrote:
> I have started to experiment with EZNEC and am modeling a couple of loop
> antennas including some delta loops. I see references to hams using 4:1
> baluns with these antennas, but the models I see show a feed point
> impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help
> - what am I missing?

The resonant feedpoint of the 80m loop that I modeled
with EZNEC is 115 ohms. Without a 4:1 at the feedpoint,
the 50 ohm SWR is 2.3:1 inviting foldback. With a 4:1
balun, the 50 ohm SWR is 1.7:1 with no foldback. It is
rare for the feedpoint resistance of a loop to be exactly
100 ohms.

Of course, if the loop is fed with high-Z0 ladder-line,
the 100 ohm feedpoint resistance is transformed to a higher
impedance value where a 4:1 balun might be more effective.

For single-band operation, most hams simply feed the loop
with 1/4WL of Z0=75 ohm coax (quarter-wave transformer).
--
73, Cecil http://www.w5dxp.com

478. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 15:17:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Ozmcl.11175$D32.8063@flpi146.ffdc.sbc.com>
Source record: 18102

Sal M. Onella wrote:
> But even with poor propagation, it's never zero,
> especially on 20m and below, so I do what I can.

Back around 1700, when there were no sunspots, there
were also no ham QSOs. :-)
--
73, Cecil http://www.w5dxp.com

479. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 16:45:13 UTC
From: JB <nospam@goofball.net>
Message-ID: <tWncl.214$Aw2.175@nwrddc02.gnilink.net>
Source record: 18103

A few measurements out of the bag:

N males

UG-21B/U 74868 (used) .068"
RFI RFN-1007 .065"
CPN-1 .065"

BNC males

AMP BNC59PC .053"
Amphenol 68175 .050"
RFI RFB-1106-2 .053"

Can we see a trend yet or should I continue?

480. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 17:48:05 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <oOocl.5038$Ex.2687@bignews8.bellsouth.net>
Source record: 18104

"Dave" <noone@nowhere.com> wrote in message
news:mdlcl.178$Aw2.22@nwrddc02.gnilink.net...
>
> "Ed Cregger" <ecregger@bellsouff.net> wrote in message
> news:WSkcl.4906$Jn4.4534@bignews7.bellsouth.net...
>>
>> "Tad Danley" <tdanley@nospamatverizon.net> wrote in message
>> news:2Kbcl.113$Aw2.81@nwrddc02.gnilink.net...
>>>I have started to experiment with EZNEC and am modeling a couple of loop
>>>antennas including some delta loops. I see references to hams using 4:1
>>>baluns with these antennas, but the models I see show a feed point
>>>impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help -
>>>what am I missing?
>>>
>>> Thanks and 73,
>>>
>>> Tad Danley, K3TD
>>
>> --------
>>
>> I am beginning to suspect that traditionally made baluns are not as exact
>> in practice as they are theoretically. This is not a surprise, really.
>> Few things in electronics are exact as we humans like to assume, as you
>> well know.
>>
>
> the baluns are exact, the practical antennas aren't.

Only in theory. Such things as variances in construction materials from one
batch to another and the variations that one human will introduce to
construction versus another human also induce characteristics that do not
always jibe with theory.

I admit that I am argueing a very fine point here, Dave, but folks without
any electronics education, but who have pursued electronics theory as part
of their amateur radio advocation, are sometimes prone to thinking that
everything is exact. In the real physical world, few things are exact. Ask
any technician or machinist.

Ed, N2ECW

481. Re: The Strange True Story of a Radio Station's Transmitter in NewYork State

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 17:58:42 UTC
From: dloyd@gmail.com
Message-ID: <kle2n41r1u2ej1mjmvlgsn64u94qe1qdim@4ax.com>
Source record: 18105
Cross-posted to: alt.ham-radio,rec.radio.shortwave,rec.radio.amateur.policy,rec.antiques.radio+phono,rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.amateur.misc

On Mon, 08 Sep 2008 14:51:25 -0400, "Michael A. Terrell"
<mike.terrell@earthlink.net> wrote:

>
>christopher wrote:
>>
>> Didn't Tesla propose using DC current, basically broadcast/produced from
>> thousands of transmitters. In order to use the electrical current/field,
>> all one had to do was ground one side/wire to Earth. The other side or
>> wire would be the receptor/antenna for lack of a better term.
>>
>> I'm not a technical person but I think I have the basic premise right.
>
>
> No. It wasn't DC, since DC is direct current. That was Edison who
>would have needed a power plant every half mile or so. Tesla was hyping
>"Broadcast power" which was lossy broadband RF power that would wipe out
>most of the usable RF spectrum. Due to the 'Inverse Square Law', it was
>impractical, and always will be.
>
> Tesla was responsible for AC power distribution, which pissed Edison
>off.

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

482. Re: The Strange True Story of a Radio Station's Transmitter in NewYorkState

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 17:58:42 UTC
From: dloyd@gmail.com
Message-ID: <3me2n4he1s2asehvsmjcf8828kdqpd6snd@4ax.com>
Source record: 18106
Cross-posted to: alt.ham-radio,rec.radio.shortwave,rec.radio.amateur.policy,rec.antiques.radio+phono,rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.amateur.misc

On Mon, 08 Sep 2008 22:54:53 -0400, "Michael A. Terrell"
<mike.terrell@earthlink.net> wrote:

>
>"David G. Nagel" wrote:
>>
>> Michael A. Terrell wrote:
>> > christopher wrote:
>> >> Didn't Tesla propose using DC current, basically broadcast/produced from
>> >> thousands of transmitters. In order to use the electrical current/field,
>> >> all one had to do was ground one side/wire to Earth. The other side or
>> >> wire would be the receptor/antenna for lack of a better term.
>> >>
>> >> I'm not a technical person but I think I have the basic premise right.
>> >
>> >
>> > No. It wasn't DC, since DC is direct current. That was Edison who
>> > would have needed a power plant every half mile or so. Tesla was hyping
>> > "Broadcast power" which was lossy broadband RF power that would wipe out
>> > most of the usable RF spectrum. Due to the 'Inverse Square Law', it was
>> > impractical, and always will be.
>> >
>> > Tesla was responsible for AC power distribution, which pissed Edison
>> > off.
>> >
>> >
>> Tesla worked for Edison when he came up with AC power distribution.
>> Edison favored DC for some reason and Tesla quit and went to work for
>> Westinghouse. When the electric chair was proposed Edison did everything
>> he could to discredit it because it used Tesla's AC power.
>
>
> Explain why Edison Electrocuted an Elephant with AC. He wanted people
>to think AC was too dangerous to use.
>
> http://en.wikipedia.org/wiki/Topsy_(elephant)

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ

nor is Konstans@hotmail.com ever
btw i can be found at
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Chassel Mi

but the cowards asking lack the gut to act

483. Re: The Strange True Story of a Radio Station's Transmitter in New York State

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 17:58:42 UTC
From: dloyd@gmail.com
Message-ID: <ite2n4d2p0h7ujghun5chg6vst4j9s7biu@4ax.com>
Source record: 18107
Cross-posted to: alt.ham-radio,rec.radio.shortwave,rec.radio.amateur.policy,rec.antiques.radio+phono,rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.amateur.misc

On Tue, 5 Aug 2008 16:55:05 -0700 (PDT), javawizard
<javawizard@aol.com> wrote:

>In the 1920's a radio station in Schenectady, NY built a powerful
>transmitter. In those days before FCC regulations, not knowing just
>how big to make a transmitter in order for the signal to be received
>some distance away, the station set up to broadcast at 500,000 watts.
>It requires about one watt to be received four blocks away. A cell
>phone is three watts. This station broadcast at such tremendous power
>that they could be heard around the world. People in New York didn't
>even need radios. They could sometimes hear voices in their furnaces
>and coming off chain-link fences. Light bulbs lit up in people's
>houses even if they were switched off. - from www.clip-text.com

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

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484. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 18:35:16 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <Wtpcl.5087$aO6.4375@bignews3.bellsouth.net>
Source record: 18108

```
"Dave" <noone@nowhere.com> wrote in message
news:Oc8cl.80$aI1.63@nwrddc01.gnilink.net...
>
> "Ed Cregger" <ecregger@bellsouff.net> wrote in message
> news:_l7cl.4654$Jn4.3233@bignews7.bellsouth.net...
>>
>> "Dave" <noone@nowhere.com> wrote in message
>> news:Ji7cl.71$aI1.0@nwrddc01.gnilink.net...
>>>
>>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>>> news:3ab2018f-0e26-4970-88f7-eeb493e1efe2@q30g2000prq.googlegroups.com...
>>> On Jan 16, 12:18 pm, "Frank" <ve6cb...@nospam.telus.net> wrote:
>>>>It is not necessary for everybody to accept this line of thought
>>>
>>> thats good, because nobody on here does.
>>>
>>>>especially when equilibrium, a staple part of Gaussian law, is not
>>>
>>> 'equilibrium' is neither required nor a desired part of Gauss's law...
>>> which as i have pointed out has been a part of maxwell's equations since
>>> the very beginning, without any help from you.
>>>
>>>>accepted or understood. This particular debate has extended for about
>>>>a decade from when I postulated that a tank circuit provides radiation
>>>>in a series of pulses and not waves, I have not altered any thinking
>>>>on this group so I am calling that particu;ar debate a washout and
>>>>thus will concentrate on commenting on cantenna questions and the
>>>>like.
>>>>Art Unwin......KB9MZ..xg....(uk)
>>>
>>> good, go after the cantennas... and don't forget the vent hole to let
>>> the levitating neutrinos escape when they reach the end of the
>>> diamagnetic resistor... the can is probably ferromagnetic so they'll be
>>> trapped inside and explode otherwise!
>>>
>>
>> --------
>>
>> In a millenium, folks will look back and view Art as their EMR guru. He
>> was the first to advocate Zen EMR Theory to the unwashed. No offense to
>> anyone is intended.
>>
>> Ed, N2ECW
>>
```

> ommmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm

8>)

Ed, N2ECW

485. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 18:49:40 UTC
From: kb9rqz@yahoooo.com
Message-ID: <22a4n4lnovp9k62a79tnaj2tmg73st2m02@4ax.com>
Source record: 18109
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

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486. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 20:11:33 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <khd4n45a3ehp3m68bimmgbtaj9i5gb4s16@4ax.com>
Source record: 18110

On Sat, 17 Jan 2009 12:48:05 -0500, "Ed Cregger"
<ecregger@bellsouff.net> wrote:

>>> I am beginning to suspect that traditionally made baluns are not as exact
>>> in practice as they are theoretically.

>> the baluns are exact, the practical antennas aren't.

>Only in theory. Such things as variances in construction materials from one
>batch to another and the variations that one human will introduce to
>construction versus another human also induce characteristics that do not
>always jibe with theory.
>
>I admit that I am argueing a very fine point here, Dave, but folks without
>any electronics education, but who have pursued electronics theory as part
>of their amateur radio advocation, are sometimes prone to thinking that
>everything is exact. In the real physical world, few things are exact. Ask
>any technician or machinist.

Any technician or machinist has only a remote association with exact
anyway. I've calibrated their tools and know how inexact they are.

However, returning to the context of BalUns, a person can choose to
fail, or simply fumble along when it comes to their design,
construction, or application - but this is not a performance fault of
the class of BalUn. Using your 160M BalUn for 1.2GHz work isn't a
blight on the BalUn, but on the user's inappropriate application
(hammering in a screw for example).

The test data I've seen for careful constructions have remarkable
attributes that defy typical construction projects pursuing other
goals. Jerry Sevick's work reveals less than 0.02dB variation of
insertion loss over the HF range for one of his constructions. The
value of insertion loss it does present is less than 0.1dB. The
ability to duplicate his work is not outside the capability of any
individual who writes to this group - but anyone could certainly slop
it into oblivion if care was not high in their mind.

The specs I offered above came of simply opening the book and
describing the first page that offered test results. Scanning further
for better examples yields better examples. As a class, BalUns are
rather exceptional performers.

So, to this casual off-hand remark of BalUns not being as "exact" in
practice as in theory begs the question: "How exact?" When I see
such manufactured controversies conjoined (through other authors) with
turns-ratio, the discussion of BalUn operation is showing stress

fractures in understanding - not theory.

73's
Richard Clark, KB7QHC

487. TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 20:44:05 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <6196b13c-f991-4083-966e-efb558fa0e43@i24g2000prf.googlegroups.com>
Source record: 18111

I was considering using a TV type 4:1 balun on 2 meters. Does anyone know how much power these can handle? I remember a guy doing this when I was a teenager(long ago) but I think the baluns were built a little stouter back then than they are now.

Jimmie

488. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 21:59:48 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <crk4n4tklrod9ktecqhncga1esb5v4d208@4ax.com>
Source record: 18112

On Sat, 17 Jan 2009 12:44:05 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I was considering using a TV type 4:1 balun on 2 meters. Does anyone
>know how much power these can handle? I remember a guy doing this when
>I was a teenager(long ago) but I think the baluns were built a little
>stouter back then than they are now.

Hi Jimmie,

Have your tried researching the archives for this topic? Google's
search tools can easily provide those answers.

What do you have that is
1. a 200 Ohm load, or
2. a 12.5 Ohm load?

Is it balanced, or unbalanced?

Does this BalUn have a pedigree (like Radio Shack's "Best TV") or
could it actually be an FM BalUn?

If it is a TV BalUn, which band?

How much power are you going to apply to the load?

73's
Richard Clark, KB7QHC

489. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 22:42:34 UTC
From: Dave <dave@dave.dave>
Message-ID: <JPWdnR0bG4BDw-_UnZ2dnUVZ_h6dnZ2d@earthlink.com>
Source record: 18113

JB wrote:
>>> The "N" male will plug into a "BNC"
>>>>> female,the BNC without its locking ring will plug into an "N"female!
>
> The N male pin is usually larger than the BNC fem center receptacle. This
> results in a BNC female with increased loss or breakage due to fatigue.
> This was known in the extended technical community of my experience as a
> GRONK!
>

Like I said, we "permanently" adapt N to BNC inside the lab. I've never used an N in a situation where a BNC wouldn't have worked*. I guess the threads make the connection more permanent, but now we have the TNC for that.

*Check that. I did need a 75 Ohm N jumper once to get from a 7/8" line to the back of a Moseley STL receiver.

490. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 22:59:04 UTC
From: nm5k@wt.net
Message-ID: <46283489-39b4-4b60-89bd-7b3923526803@z27g2000prd.googlegroups.com>
Source record: 18114

On Jan 17, 2:44 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I was considering using a TV type 4:1 balun on 2 meters. Does anyone
> know how much power these can handle? I remember a guy doing this when
> I was a teenager(long ago) but I think the baluns were built a little
> stouter back then than they are now.
>
> Jimmie

I wouldn't bother with those.. Tiny gauge wire..
Might be usable for a receive antenna, but I sure as heck
wouldn't use one for transmit.
I bet they are fairly lossy. Also.. they may not work too
well on the HF frequencies being they are designed for
VHF/UHF.

491. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 23:42:32 UTC
From: Dave <dave@dave.dave>
Message-ID: <adednVCeBJJ08e_UnZ2dnUVZ_sDinZ2d@earthlink.com>
Source record: 18115

christofire wrote:

>
>
> So refreshing to see someone stating it correctly when all around there are
> folk who harbour mistaken beliefs that 50 and 75 ohm BNC pins have different
> mating diameters. What I find odd is that so many people who claim the
> contrary appear to have unshakable belief, almost like a religion,
> irrespective of what the manufacturers' engineering drawings actually show.
>
> Chris
>
>
Ns have different pins, not BNC.

492. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-17 23:48:57 UTC
From: JB <nospam@goofball.net>
Message-ID: <J7ucl.277$Aw2.195@nwrddc02.gnilink.net>
Source record: 18116

> Like I said, we "permanently" adapt N to BNC inside the lab. I've never
> used an N in a situation where a BNC wouldn't have worked*. I guess the
> threads make the connection more permanent, but now we have the TNC for
> that.
>
> *Check that. I did need a 75 Ohm N jumper once to get from a 7/8" line
> to the back of a Moseley STL receiver.

Aside from power and sweep checks on 800 and above (where issues really show) BNC seems to do well. Most RG58 double shielded types seem to be lossy though. Even for short jumper runs. PL259 junctions are completely worthless and measurements are meaningless. Sweeps are impossible because of all the reflections. N can be adapted to anything else with much less loss than from anything else. I was aware of this long before I built my brand new Heath HW-2036 synthesized rig and replaced the RCA phono jack with a BNC bulkhead as I built it.

Some of our more expensive equipment would get a N male to N fem adapter just to save wear on the threads, but N male to BNC fem adapter would be most useful most of the time. It's bad luck to use the internal load when you can use a sample port anyway.

My stock Collins HF amp has an N output connector and it's 40+ years old. BTW it has an RCA phono jack for the input. These actually have better loss characteristics to uWave than the SO239 except for lack of proper retention.

493. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 00:37:07 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <CvadnZOW8eUr5O_UnZ2dneKdnZzinZ2d@bt.com>
Source record: 18117

"Dave" <dave@dave.dave> wrote in message
news:adednVCeBJJ08e_UnZ2dnUVZ_sDinZ2d@earthlink.com...
> christofire wrote:
>
>>
>>
>> So refreshing to see someone stating it correctly when all around there
>> are folk who harbour mistaken beliefs that 50 and 75 ohm BNC pins have
>> different mating diameters. What I find odd is that so many people who
>> claim the contrary appear to have unshakable belief, almost like a
>> religion, irrespective of what the manufacturers' engineering drawings
>> actually show.
>>
>> Chris
> Ns have different pins, not BNC.

Correct.

http://www.amphenol.com/markets/medical/connectors/rf_coax/bnc.html '50 ohm
and
75 ohm BNC connectors are intermateable'

http://www.radiall.com/radiall/easysite/go/03r-00000a-004/categoryId/1232281
'All versions are fully intermateable'

An earlier post in this thread had suggested otherwise.

Chris

494. Re: N power connector rating?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 00:44:52 UTC
From: Dave <dave@dave.dave>
Message-ID: <8q2dnZfe8NsZ5u_UnZ2dnUVZ_uOdnZ2d@earthlink.com>
Source record: 18118

JB wrote:
>> Like I said, we "permanently" adapt N to BNC inside the lab. I've never
>> used an N in a situation where a BNC wouldn't have worked*. I guess the
>> threads make the connection more permanent, but now we have the TNC for
>> that.
>>
>> *Check that. I did need a 75 Ohm N jumper once to get from a 7/8" line
>> to the back of a Moseley STL receiver.
>
> Aside from power and sweep checks on 800 and above (where issues really
> show) BNC seems to do well. Most RG58 double shielded types seem to be
> lossy though. Even for short jumper runs. PL259 junctions are completely
> worthless and measurements are meaningless. Sweeps are impossible because
> of all the reflections. N can be adapted to anything else with much less
> loss than from anything else. I was aware of this long before I built my
> brand new Heath HW-2036 synthesized rig and replaced the RCA phono jack with
> a BNC bulkhead as I built it.
>
> Some of our more expensive equipment would get a N male to N fem adapter
> just to save wear on the threads, but N male to BNC fem adapter would be
> most useful most of the time. It's bad luck to use the internal load when
> you can use a sample port anyway.
>
> My stock Collins HF amp has an N output connector and it's 40+ years old.
> BTW it has an RCA phono jack for the input. These actually have better loss
> characteristics to uWave than the SO239 except for lack of proper retention.
>

I have a 30L-1. Some day I'll hook it up.

495. Re: Log-Periodic Antenna Design , jihg gain smalll size wide bandwidth new technology

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 02:17:55 UTC
From: LVMarc <LVMarc@att.net>
Message-ID: <ygwcl.14356$1k1.5020@newsfe14.iad>
Source record: 18119
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

mpm wrote:
> On Nov 21, 7:04 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
>
>>On Nov 21, 5:53 pm, Rich Grise <r...@example.net> wrote:
>>
>>
>>
>>
>>
>>
>>>On Thu, 20 Nov 2008 16:58:46 -0800, Roy Lewallen wrote:
>>>
>>>>Rich Grise wrote:
>>>>
>>>>>On Thu, 20 Nov 2008 15:30:26 -0800, Roy Lewallen wrote:
>>>>>
>>>>>>GregS wrote:
>>>>>>
>>>>>>>Ever hear of the BOW TIE. Its a sort of Fractal antenna. Having a wide
>>>>>>>band. It could be improved by making it a full fractal.
>>>>>>
>>>>>>That's interesting. In what way(s) is it improved by making it fractal?
>>>>>>How much is the improvement? Can you point me to a reference about this
>>>>>>which gives some quantitative data?
>>>>>
>>>>>http://www.google.com/search?hl=en&q=%22fractal+antennas%22&btnG=Goog...
>>>>
>>>>Sorry, it doesn't. Among the claims, trolls for investors, and
>>>>testimonials, where is the quantitative data showing that a fractal
>>>>antenna is in any way better than a bow tie, in what ways, and how much?
>>>>In other words, exactly where is the evidence on which you based your
>>>>statement?
>>>
>>>The only "evidence" I have is a "testimonial" by the guy who invented it,
>>>on some PBS show. And they claimed that that's how they pack so much
>>>antenna into a box the size of your thumb. ;-)
>>>
>>>And, having a passing familiarity with fractals, it just sounds eminently
>>>plausible to me. :-)
>>>
>>>Cheers!

>>>Rich
>>
>>Their advertising budget suggest that they are getting sales and they
>>do radiate
>>to the satisfaction of their users ?They don't have lumped loads so
>>where ';s the beef?
>>Art- Hide quoted text -
>>
>>- Show quoted text -
>
>
> It's a folded, folded, folded, folded, folded,... n(folded) unipole
> antenna!! ;-)
The highest gain in smalllest size would b obtained by using focused
wave antenna antenna, inhelical mode basd upon your description

go here and contact me diectly for fetails may have smaple or can
fabricate based upn your specifiation. Nothig like it on the market!
Patent is new and full marketing budget crippled along with creit maret
so lauch delayed. So its business ti business right here, Good news is
the you get to speak with invetor/builder an producer i on emai :-)

www.fwt.niat.net
short power point here

http://www.youtube.com/user/LVMarc

As an independant producer and start-up would be very responsive and
appreciative of your support and queries. Can aslo locate front end
amplifiers inside anna eleiminating front connector loss. that last .035
db is hard to obtain any othe way with a connector beween any antenna
and front end so we put front end inside anteanna substrate and your
system will out perofrm all otthers!

Best Regards

Marc Popek

496. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 05:07:40 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <yOycl.45011$Nv1.1556@newsfe03.iad>
Source record: 18120

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:Ozmcl.11175$D32.8063@flpi146.ffdc.sbc.com...
> Sal M. Onella wrote:
> > But even with poor propagation, it's never zero,
> > especially on 20m and below, so I do what I can.
>
> Back around 1700, when there were no sunspots, there
> were also no ham QSOs. :-)
> --
> 73, Cecil http://www.w5dxp.com

LOL Thanks.

497. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 05:40:04 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <xOednW29ucQqXe_UnZ2dnUVZ_oLinZ2d@posted.easystreetonline>
Source record: 18121

Ed Cregger wrote:
>
> I am beginning to suspect that traditionally made baluns are not as exact in
> practice as they are theoretically. This is not a surprise, really. Few
> things in electronics are exact as we humans like to assume, as you well
> know.
>
> Good seeing your post, OM.
>
>
> Ed Cregger, N2ECW former NM2K

The whole problem is "liking to assume" that things are simpler than they are. When the theory you apply is too simple, guess what -- you'll find that the real thing doesn't behave as your oversimplified "theory" predicts. Theory works just fine, and accurately predicts how a real object will work. Oversimplified "theory" often doesn't work so well.

A well made balun or RF transformer behaves reasonably well like an ideal transformer, that is, infinite winding inductance, no coupling capacitance, zero leakage inductance, no loss, and so forth, but only under quite a narrow range of circumstances. Those circumstances include being terminated with a fairly narrow range of impedances and over a limited frequency range. Usually, one side is designed to be terminated with 50 ohms, purely resistive. That means the other side of a 4:1 balun has to be terminated with something fairly close to 200 or 12.5 ohms (depending on how it's designed), also resistive, in order for it to work as intended. If the impedance differs very much at all from that value, you'll find that the transformation ratio is no longer 4:1, and that the balun will add a series and/or shunt impedance to the circuit. This can be accounted for by theory, but only with great difficulty since it requires careful characterization of the core and windings. People tend to design, and often test, a 4:1 balun in a 50 ohm environment, then attach it to a multiband antenna that has rather extreme (but entirely predictable) impedance variations. Then they're surprised because the impedance seen looking into the balun isn't 4 times or 1/4 times the antenna impedance, but is something wildly different. They shouldn't be. A 4:1 balun or transformer that effects a nice 4:1 impedance transformation when presented with a very wide range of termination impedances simply doesn't exist. Any "theory" that predicts it is oversimplified and invalid.

Roy Lewallen, W7EL

498. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 08:52:28 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <f1420b37-5c6d-442c-90d4-de2c68fed748@v18g2000pro.googlegroups.com>
Source record: 18122

On Jan 17, 4:59 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Sat, 17 Jan 2009 12:44:05 -0800 (PST), JIMMIE
>
> <JIMMIEDEE...@YAHOO.COM> wrote:
> >I was considering using a TV type 4:1 balun on 2 meters. Does anyone
> >know how much power these can handle? I remember a guy doing this when
> >I was a teenager(long ago) but I think the baluns were built a little
> >stouter back then than they are now.
>
> Hi Jimmie,
>
> Have your tried researching the archives for this topic? Google's
> search tools can easily provide those answers.
>
> What do you have that is
> 1. a 200 Ohm load, or
> 2. a 12.5 Ohm load?
>
> Is it balanced, or unbalanced?
>
> Does this BalUn have a pedigree (like Radio Shack's "Best TV") or
> could it actually be an FM BalUn?
>
> If it is a TV BalUn, which band?
>
> How much power are you going to apply to the load?
>
> 73's
> Richard Clark, KB7QHC

Googling TV BalUn was useless but searching fot 2M Balun proved more
useful. Per an article by K3MT they should be able to handle power in
the 5 to 10 watt range. More than enough for my purpose. I cracked
open a couple and foundd that tthe type that go frm screw connectors
to male F connector have a larger transformer than the barrel type.
This was at least true for the couple that I sacrificed to the radio
gods.
K3MT"s data was on the barrrel or tubular type.

Jimmie

499. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 13:30:41 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <f4Gcl.5626$e13.1051@bignews5.bellsouth.net>
Source record: 18123

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:xOednW29ucQqXe_UnZ2dnUVZ_oLinZ2d@posted.easystreetonline...
> Ed Cregger wrote:
>>
>> I am beginning to suspect that traditionally made baluns are not as exact
>> in practice as they are theoretically. This is not a surprise, really.
>> Few things in electronics are exact as we humans like to assume, as you
>> well know.
>>
>> Good seeing your post, OM.
>>
>>
>> Ed Cregger, N2ECW former NM2K
>
> The whole problem is "liking to assume" that things are simpler than they
> are. When the theory you apply is too simple, guess what -- you'll find
> that the real thing doesn't behave as your oversimplified "theory"
> predicts. Theory works just fine, and accurately predicts how a real
> object will work. Oversimplified "theory" often doesn't work so well.
>
> A well made balun or RF transformer behaves reasonably well like an ideal
> transformer, that is, infinite winding inductance, no coupling
> capacitance, zero leakage inductance, no loss, and so forth, but only
> under quite a narrow range of circumstances. Those circumstances include
> being terminated with a fairly narrow range of impedances and over a
> limited frequency range. Usually, one side is designed to be terminated
> with 50 ohms, purely resistive. That means the other side of a 4:1 balun
> has to be terminated with something fairly close to 200 or 12.5 ohms
> (depending on how it's designed), also resistive, in order for it to work
> as intended. If the impedance differs very much at all from that value,
> you'll find that the transformation ratio is no longer 4:1, and that the
> balun will add a series and/or shunt impedance to the circuit. This can be
> accounted for by theory, but only with great difficulty since it requires
> careful characterization of the core and windings. People tend to design,
> and often test, a 4:1 balun in a 50 ohm environment, then attach it to a
> multiband antenna that has rather extreme (but entirely predictable)
> impedance variations. Then they're surprised because the impedance seen
> looking into the balun isn't 4 times or 1/4 times the antenna impedance,
> but is something wildly different. They shouldn't be. A 4:1 balun or
> transformer that effects a nice 4:1 impedance transformation when
> presented with a very wide range of termination impedances simply doesn't
> exist. Any "theory" that predicts it is oversimplified and invalid.
>
> Roy Lewallen, W7EL

Roy, that is precisely what I said, but rather imprecisely.

Ed, N2ECW

500. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 15:12:11 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <IAHcl.8980$8_3.219@flpi147.ffdc.sbc.com>
Source record: 18124

Ed Cregger wrote:
> Such things as variances in construction materials from one
> batch to another and the variations that one human will introduce to
> construction versus another human also induce characteristics that do not
> always jibe with theory.

IMO, the major problem with baluns is that they are
designed for specific impedances and most often used
with unknown impedances.
--
73, Cecil http://www.w5dxp.com

501. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 18:19:02 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <svr6n4t4gdq8u9tcl2rlujvnk1tcl7fejf@4ax.com>
Source record: 18125

On Sun, 18 Jan 2009 00:52:28 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>Googling TV BalUn was useless but searching fot 2M Balun proved more
>useful. Per an article by K3MT they should be able to handle power in
>the 5 to 10 watt range. More than enough for my purpose. I cracked
>open a couple and foundd that tthe type that go frm screw connectors
>to male F connector have a larger transformer than the barrel type.
>This was at least true for the couple that I sacrificed to the radio
>gods.
>K3MT"s data was on the barrrel or tubular type.
>
>Jimmie

Hi Jimmie,

So, going further with this resource you found, was there any report
of how "well" it worked? Merely surviving the application of 5 to 10
Watts isn't exactly proof of suitability for performance. Even a SWR
report could mask the fact that a BalUn inappropriately applied is
operating as a padding resistor.

Going further yet, was it reported what style of BalUn it was?
Guanella? Ruthroff? Not all BalUns perform equally, and for
reception (the class of BalUn you are mining for transmission
application) it is arguable that it matters.

Lastly to your first statement
>Googling TV BalUn was useless but searching fot 2M Balun proved more
>useful.
The distinction was useful, but were you Googling the Web, or this
group?

73's
Richard Clark, KB7QHC

502. Re: The Strange True Story of a Radio Station's Transmitter in NewY...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 19:03:11 UTC
From: richardharrison@webtv.net
Message-ID: <23614-49737CEF-2490@storefull-3172.bay.webtv.net>
Source record: 18126

DLoyd wrote:
"Due to the "Inverse Square Law", it was impractical and always will
be."

How much power do you need? Does radio reach the stars? Does light from
the stars reach us by "radio" type waves?

Because the power of a radio wave declines due to distance by only 6 db
each time distance doubles, the 6 db distance can be almost infinite and
the power useable dependent on the power required and and the power of
the source.

Best regards, Richard Harrison, KB5WZI

503. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 20:35:01 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <e977cf3e-be74-4f49-b707-46bdd0ff772c@i24g2000prf.googlegroups.com>
Source record: 18127

On Jan 18, 1:19 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Sun, 18 Jan 2009 00:52:28 -0800 (PST), JIMMIE
>
> <JIMMIEDEE...@YAHOO.COM> wrote:
> >Googling TV BalUn was useless but searching fot 2M Balun proved more
> >useful. Per an article by K3MT they should be able to handle power in
> >the 5 to 10 watt range. More than enough for my purpose. I cracked
> >open a couple and foundd that tthe type that go frm screw connectors
> >to male F connector have a larger transformer than the barrel type.
> >This was at least true for the couple that I sacrificed to the radio
> >gods.
> >K3MT"s data was on the barrrel or tubular type.
>
> >Jimmie
>
> Hi Jimmie,
>
> So, going further with this resource you found, was there any report
> of how "well" it worked? Merely surviving the application of 5 to 10
> Watts isn't exactly proof of suitability for performance. Even a SWR
> report could mask the fact that a BalUn inappropriately applied is
> operating as a padding resistor.
>
> Going further yet, was it reported what style of BalUn it was?
> Guanella? Ruthroff? Not all BalUns perform equally, and for
> reception (the class of BalUn you are mining for transmission
> application) it is arguable that it matters.
>
> Lastly to your first statement>Googling TV BalUn was useless but searching fot 2M Balun
proved more
> >useful.
>
> The distinction was useful, but were you Googling the Web, or this
> group?
>
> 73's
> Richard Clark, KB7QHC

K3MT had used them in 2M project so for the time being I will let it
go at that for now. Iam concerned about the cores saturating at that
power level but I doubt if there is a lot of info on it. When I get
off the road in a couple of weeks I will try hooking a couple of them
back to back to a dummy load, putting 10 watts in and seeing what
happens.

The web.

Jimmie

504. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 21:22:40 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <j2Ncl.5686$G24.5681@bignews6.bellsouth.net>
Source record: 18128

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:IAHcl.8980$8_3.219@flpi147.ffdc.sbc.com...
> Ed Cregger wrote:
>> Such things as variances in construction materials from one batch to
>> another and the variations that one human will introduce to construction
>> versus another human also induce characteristics that do not always jibe
>> with theory.
>
> IMO, the major problem with baluns is that they are
> designed for specific impedances and most often used
> with unknown impedances.
> --
> 73, Cecil http://www.w5dxp.com

Very true, but often times they work well enough with varying impedances to
get us on the air. If it is that or nothing, then I'm all for doing it.

Ed, N2ECW

505. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 22:03:48 UTC
From: Tad Danley <tdanley@nospamatverizon.net>
Message-ID: <8HNcl.449$Aw2.289@nwrddc02.gnilink.net>
Source record: 18129

Roy Lewallen wrote:
> Ed Cregger wrote:
>>
>> I am beginning to suspect that traditionally made baluns are not as
>> exact in practice as they are theoretically. This is not a surprise,
>> really. Few things in electronics are exact as we humans like to
>> assume, as you well know.
>>
>> Good seeing your post, OM.
>>
>>
>> Ed Cregger, N2ECW former NM2K
>
> The whole problem is "liking to assume" that things are simpler than
> they are. When the theory you apply is too simple, guess what -- you'll
> find that the real thing doesn't behave as your oversimplified "theory"
> predicts. Theory works just fine, and accurately predicts how a real
> object will work. Oversimplified "theory" often doesn't work so well.
>
> A well made balun or RF transformer behaves reasonably well like an
> ideal transformer, that is, infinite winding inductance, no coupling
> capacitance, zero leakage inductance, no loss, and so forth, but only
> under quite a narrow range of circumstances. Those circumstances include
> being terminated with a fairly narrow range of impedances and over a
> limited frequency range. Usually, one side is designed to be terminated
> with 50 ohms, purely resistive. That means the other side of a 4:1 balun
> has to be terminated with something fairly close to 200 or 12.5 ohms
> (depending on how it's designed), also resistive, in order for it to
> work as intended. If the impedance differs very much at all from that
> value, you'll find that the transformation ratio is no longer 4:1, and
> that the balun will add a series and/or shunt impedance to the circuit.
> This can be accounted for by theory, but only with great difficulty
> since it requires careful characterization of the core and windings.
> People tend to design, and often test, a 4:1 balun in a 50 ohm
> environment, then attach it to a multiband antenna that has rather
> extreme (but entirely predictable) impedance variations. Then they're
> surprised because the impedance seen looking into the balun isn't 4
> times or 1/4 times the antenna impedance, but is something wildly
> different. They shouldn't be. A 4:1 balun or transformer that effects a
> nice 4:1 impedance transformation when presented with a very wide range
> of termination impedances simply doesn't exist. Any "theory" that
> predicts it is oversimplified and invalid.

Thanks for the information!

Ed, good to run into you again! What brought you to Georgia?

Ray - I found a Dover edition of Transmission Lines, Antennas and Waveguides. Thank you for the suggestion!

One final question about the 4:1 balun: Assuming a single band Delta Loop with a feed point impedance of approx 100 ohms, with or without a 4:1 balun you have approximately a 2:1 SWR - so why use the balun?

Thanks and 73,

Tad Danley, K3TD

506. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-18 22:41:44 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <C6Ocl.5518$Jn4.2447@bignews7.bellsouth.net>
Source record: 18130

"Tad Danley" <tdanley@nospamatverizon.net> wrote

> Ed, good to run into you again! What brought you to Georgia?
>
> Thanks and 73,
>
> Tad Danley, K3TD

Dupont decided that they needed the wife in Chattanooga, TN. That was slightly over ten years ago. We are living in the Northwest corner of Georgia, just below Chattanooga, TN. It is a very, very nice place to live.

What the heck are you doing in Texas?

Ed, N2ECW

507. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 01:33:32 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <MLQcl.593$aI1.35@nwrddc01.gnilink.net>
Source record: 18131

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:svr6n4t4gdq8u9tcl2rlujvnk1tcl7fejf@4ax.com...
> On Sun, 18 Jan 2009 00:52:28 -0800 (PST), JIMMIE
> <JIMMIEDEE123@YAHOO.COM> wrote:
>
>>Googling TV BalUn was useless but searching fot 2M Balun proved more
>>useful. Per an article by K3MT they should be able to handle power in
>>the 5 to 10 watt range. More than enough for my purpose. I cracked
>>open a couple and foundd that tthe type that go frm screw connectors
>>to male F connector have a larger transformer than the barrel type.
>>This was at least true for the couple that I sacrificed to the radio
>>gods.
>>K3MT"s data was on the barrrel or tubular type.
>>
>>Jimmie
>
> Hi Jimmie,
>
> So, going further with this resource you found, was there any report
> of how "well" it worked? Merely surviving the application of 5 to 10
> Watts isn't exactly proof of suitability for performance. Even a SWR
> report could mask the fact that a BalUn inappropriately applied is
> operating as a padding resistor.
>
> Going further yet, was it reported what style of BalUn it was?
> Guanella? Ruthroff? Not all BalUns perform equally, and for
> reception (the class of BalUn you are mining for transmission
> application) it is arguable that it matters.
>
> Lastly to your first statement
>>Googling TV BalUn was useless but searching fot 2M Balun proved more
>>useful.
> The distinction was useful, but were you Googling the Web, or this
> group?
>
> 73's
> Richard Clark, KB7QHC

Hi Richard

I made some insertion loss measurements on some of the low cost TV (4:1)
baluns when I was trying to understand that 137 MHz antenna. I didnt save
any data. I did use several types of baluns. They were all typically the
Radio Shack quality. At 137 MHz, the insertion loss was about 2.5 dB for
two baluns connected in series, back to back. I know that seems high, but

the units are really not well built.
It seems that the original poster, Jimmie, might consider using RFI ferrites around the coax instead of the TV 4:1 baluns. My measured data indicates the low cost ferrites, intended to be used to minimize RFI conduction on the outside of cables, work quite well at 144 MHz.

Jerry

508. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 03:07:21 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <35q7n45u4vsjgjqnfciqmuj36igttllfh2@4ax.com>
Source record: 18132

On Sun, 18 Jan 2009 12:35:01 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>K3MT had used them in 2M project so for the time being I will let it
>go at that for now. Iam concerned about the cores saturating at that
>power level but I doubt if there is a lot of info on it. When I get
>off the road in a couple of weeks I will try hooking a couple of them
>back to back to a dummy load, putting 10 watts in and seeing what
>happens.
>
>The web.
>
>Jimmie

Hi Jimmie,

Last things first, you should Google in "Groups," specifically this group. This isn't a guarantee, but at least you will land in a thread where discussion will reveal flaws where they exist.

For a core to saturate reveals a misunderstanding of how the BalUn works (it goes to the same correspondents who speak of "turns ratio").

The most effective BalUn provides a high common mode reactance or resistance to current. Hence current in that mode will be low. With low current into a high resistance you have low power dissipation. Core saturation never becomes a problem, and is a distinctly separate issue - although solved through the same mechanism.

The most effective BalUn adds absolutely no differential mode reactance or resistance. Again, where there is high current and no resistance, there is no power dissipation and zero core saturation (for the same reasons, but through different mechanisms).

Practical BalUns have some residual reactances and resistances that they add to the transmission circuit. A Ruthroff BalUn design even purposely introduces this to its own limitation (and no advantage over other designs). The Ruthroff design invites core saturation. A Guanella BalUn seeks to be the most effective design to its advantage over the Ruthroff. The Guanella design suppresses core saturation. There are limitations, of course.

You can still flame out a Guanella if the core reactance/resistance is under designed, or your load is unbalanced and not suited to the transformation ratio. This can be aided through choking the input to the BalUn (which serves as a choke, too, for controlled loads).

The back-to-back test is useful. Take one BalUn between a finger and thumb and count to 10. If you don't raise a welt, then they probably are not too lossy.

73's
Richard Clark, KB7QHC

509. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 03:32:16 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <15q7n416f20bqveb0jatgsjt4cci05rtq2@4ax.com>
Source record: 18133

On Sat, 17 Jan 2009 12:44:05 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I was considering using a TV type 4:1 balun on 2 meters. Does anyone
>know how much power these can handle? I remember a guy doing this when
>I was a teenager(long ago) but I think the baluns were built a little
>stouter back then than they are now.

May I suggest using a coaxial cable 4:1 balun instead of ferrite core
type. A 1/2 wave electrical length of coax cable, some soldering, and
you're done. For just 2 meters, the bandwidth is just fine and the
loss is no more than that of the coax cable. For low power, small
diameter RG-174 type coax is fine. I use 4:1 coax baluns for matching
300 ohm folded dipole antennas:
<http://users.belgacom.net/hamradio/schemas/14balun.gif>

The common TV balun has two xfomers inside, which are sometimes
combined on a single core. See schematics at:
<http://members.tripod.com/rclindia/trans.html>
<http://www.electronics-tutorials.com/basics/baluns.htm>

However, if size is an issue, I guess the coax balun is a bit large.
For just 2 meters, the ferrite core is not necessary. Just find a
block of PTFE (Teflon) or plastic, and drill it to resemble the TV
balun core, use 2 PTFE toroid cores (if you can find them), or
simulate a torroid with a stack of nylon washers. Then wind the 2
pairs of 2 wires through the holes and bring out the connections.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

510. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 04:19:01 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <da5a723a-36b2-465b-ad8c-2f6c12d0ae10@a39g2000prl.googlegroups.com>
Source record: 18134

On Jan 18, 10:32 pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sat, 17 Jan 2009 12:44:05 -0800 (PST), JIMMIE
>
> <JIMMIEDEE...@YAHOO.COM> wrote:
> >I was considering using a TV type 4:1 balun on 2 meters. Does anyone
> >know how much power these can handle? I remember a guy doing this when
> >I was a teenager(long ago) but I think the baluns were built a little
> >stouter back then than they are now.
>
> May I suggest using a coaxial cable 4:1 balun instead of ferrite core
> type. A 1/2 wave electrical length of coax cable, some soldering, and
> you're done. For just 2 meters, the bandwidth is just fine and the
> loss is no more than that of the coax cable. For low power, small
> diameter RG-174 type coax is fine. I use 4:1 coax baluns for matching
> 300 ohm folded dipole antennas:
> <http://users.belgacom.net/hamradio/schemas/14balun.gif>
>
> The common TV balun has two xfomers inside, which are sometimes
> combined on a single core. See schematics at:
> <http://members.tripod.com/rclindia/trans.html>
> <http://www.electronics-tutorials.com/basics/baluns.htm>
>
> However, if size is an issue, I guess the coax balun is a bit large.
> For just 2 meters, the ferrite core is not necessary. Just find a
> block of PTFE (Teflon) or plastic, and drill it to resemble the TV
> balun core, use 2 PTFE toroid cores (if you can find them), or
> simulate a torroid with a stack of nylon washers. Then wind the 2
> pairs of 2 wires through the holes and bring out the connections.
>
> --
> Jeff Liebermann   je...@cruzio.com
> 150 Felker St #D   http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
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I was rummaging through my mobil junk er toolbox and came across an
old package of air core TV baluns. These date back to the day when
TVs were usually fed with twin lead. Tuesday I may be able to get to
some test equipment to check out the losses on those. Gee getting to
spend a 3day weekend on the road is such fun.

Jimmie

511. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 08:00:00 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mmc8n496fnfplocg2h3c9h8pqnb9gs7pvl@4ax.com>
Source record: 18135

On Mon, 19 Jan 2009 01:33:32 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

> At 137 MHz, the insertion loss was about 2.5 dB for
>two baluns connected in series, back to back.

OUCH!

>I know that seems high, but
>the units are really not well built.

Hi Jerry,

So it would seem.

73's
Richard Clark, KB7QHC

512. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 14:40:53 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Uh0dl.1513$PE4.1109@nlpi061.nbdc.sbc.com>
Source record: 18136

Ed Cregger wrote:
> Very true, but often times they work well enough with varying impedances to
> get us on the air. If it is that or nothing, then I'm all for doing it.

When I was in high school, a ham came back to my
"t-e-s-t-d-e-w-5-d-x-p" signal while my 40W Globe
Scout was driving a 100W light bulb through 3' of
wire on a table top. He gave me a 5x5 signal report.
No balun required. :-)
--
73, Cecil http://www.w5dxp.com

513. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 14:46:55 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xn0dl.1514$PE4.940@nlpi061.nbdc.sbc.com>
Source record: 18137

Tad Danley wrote:
> One final question about the 4:1 balun:
> Assuming a single band Delta Loop with a feed point impedance of approx
> 100 ohms, with or without a 4:1 balun you have approximately a 2:1 SWR -
> so why use the balun?

The resonant feedpoint impedance of a loop is often a
little higher than 100 ohms, e.g. 115 ohms according to
EZNEC, in which case a 4:1 balun will lower the SWR -
sometimes alleviating foldback problems.
--
73, Cecil http://www.w5dxp.com

514. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 14:53:55 UTC
From: Dave <dave@dave.dave>
Message-ID: <maidnX10rZ-eCenUnZ2dnUVZ_uIAAAAA@earthlink.com>
Source record: 18138

Cecil Moore wrote:
> Ed Cregger wrote:
>> Very true, but often times they work well enough with varying
>> impedances to get us on the air. If it is that or nothing, then I'm
>> all for doing it.
>
> When I was in high school, a ham came back to my
> "t-e-s-t-d-e-w-5-d-x-p" signal while my 40W Globe
> Scout was driving a 100W light bulb through 3' of
> wire on a table top. He gave me a 5x5 signal report.
> No balun required. :-)

http://palomar-engineers.com/1_1_Balun_Kits/1_1_balun_kits.html

http://palomar-engineers.com/4_1_Balun_Kits/4_1_balun_kits.html

515. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 15:51:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <qk1dl.10698$W06.5419@flpi148.ffdc.sbc.com>
Source record: 18139

Dave wrote:
> http://palomar-engineers.com/1_1_Balun_Kits/1_1_balun_kits.html
> http://palomar-engineers.com/4_1_Balun_Kits/4_1_balun_kits.html

Also https://www.amidoncorp.com/categories/12?page_number=2
--
73, Cecil http://www.w5dxp.com

516. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 16:10:07 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <5ab4aa94-e66d-4538-afb5-da33b58e71b2@r36g2000prf.googlegroups.com>
Source record: 18140

On Jan 18, 10:32 pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sat, 17 Jan 2009 12:44:05 -0800 (PST), JIMMIE
>
> <JIMMIEDEE...@YAHOO.COM> wrote:
> >I was considering using a TV type 4:1 balun on 2 meters. Does anyone
> >know how much power these can handle? I remember a guy doing this when
> >I was a teenager(long ago) but I think the baluns were built a little
> >stouter back then than they are now.
>
> May I suggest using a coaxial cable 4:1 balun instead of ferrite core
> type. A 1/2 wave electrical length of coax cable, some soldering, and
> you're done. For just 2 meters, the bandwidth is just fine and the
> loss is no more than that of the coax cable. For low power, small
> diameter RG-174 type coax is fine. I use 4:1 coax baluns for matching
> 300 ohm folded dipole antennas:
> <http://users.belgacom.net/hamradio/schemas/14balun.gif>
>
> The common TV balun has two xfomers inside, which are sometimes
> combined on a single core. See schematics at:
> <http://members.tripod.com/rclindia/trans.html>
> <http://www.electronics-tutorials.com/basics/baluns.htm>
>
> However, if size is an issue, I guess the coax balun is a bit large.
> For just 2 meters, the ferrite core is not necessary. Just find a
> block of PTFE (Teflon) or plastic, and drill it to resemble the TV
> balun core, use 2 PTFE toroid cores (if you can find them), or
> simulate a torroid with a stack of nylon washers. Then wind the 2
> pairs of 2 wires through the holes and bring out the connections.
>
> --
> Jeff Liebermann   je...@cruzio.com
> 150 Felker St #D   http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann   AE6KS   831-336-2558

Jeff, Apparently TV matching transformers used to be air core and
their use was quite common on 6 and 2 meter antennas.I knew the ones
built into the old tuners were but I hadnt thought the old line
transformers also being air core.They were per some of the locals on
2m repeater. If they aare the ones I am thinking of(big fat ones) I
have a few at home.

Jimmie

517. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 16:18:41 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <4974a7e8$0$19494$c5fe31e7@reader01>
Source record: 18141
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"Billy Burpelson" <billy@burpelsonafb.net> wrote in message
news:sYy7l.12685$YU2.8434@nlpi066.nbdc.sbc.com...
>
>> Billy Burpelson wrote:
>>>
>>> Barry L. Ornitz, PhD WA4VZQ wrote:
>>>
>>>>>> Silicone oils are excellent from a health standpoint...
>>>
>>> John Smith wrote:
>>>
>>>>>> However, the last silicone oil I purchased was at an auction... and
>>>>>> food grade to boot!)
>>>
>>>
>>> I am a bit puzzled. IIRC, the silicone in women's breast implants
>>> would/could/did leak and cause fairly serious health problems. Yet, Dr.
>>> Ornitz says "Silicone oils are excellent from a health standpoint" and
>>> Mr. Smith says: "food grade".
>>>
>>> Could anyone take a shot at explaining this apparent dichotomy?
>>>
>>> Inquiring minds want to know.
>
> Kenneth P. Stox wrote:
>
>> There are plenty of things that are inert when passing through the gut
>> that will be lethal if introduced directly into the body.
>
> And swallowing something is -not- being "introduced directly into the
> body"? I would have thought otherwise...
>
>
There are other ways to introduce crisco into the body, especially around
tax time! :-))

518. 1600 Watt Double Bazooka

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 16:30:44 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <4974aaba$0$19499$c5fe31e7@reader01>
Source record: 18142

http://cgi.ebay.com/1600-Watt-Double-Bazooka-dipole-CB-base-radio-antenna_W0QQitemZ390024781594QQihZ026QQcategoryZ48692QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

519. CB Base Antenna Cleaning Service

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 16:35:12 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <4974abc5$0$19499$c5fe31e7@reader01>
Source record: 18143

http://cgi.ebay.com/CB-Base-Antenna-Cleaning-Service_W0QQitemZ130282089982QQihZ003QQcategoryZ48692QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

520. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 17:43:27 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <mfd9n4d9m4rl9b1c2pgj3s07jg34udftgv@4ax.com>
Source record: 18144

On Mon, 19 Jan 2009 08:10:07 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>Jeff, Apparently TV matching transformers used to be air core and
>their use was quite common on 6 and 2 meter antennas.

Not on any 2m or 6m antenna I've seen or build. Most of what I've
seen used T-match, hair-pin match, gamma match, or something similar.
For the vertical collinears, I used a tapped coil. If I wanted lots
of bandwidth, perhaps a ferrite core might be useful, but for single
VHF band antennas, it's a lossy waste.

>I knew the ones
>built into the old tuners were but I hadnt thought the old line
>transformers also being air core.

The over-simplified idea behind the ferrite (or powdered iron for HF)
cores is to increase the inductance of the windings so the xformer
works at lower frequencies. At VHF and UHF frequencies, the core
mostly disappears and you're relying totally on the coupling between
the bifilar windings.

>They were per some of the locals on
>2m repeater. If they aare the ones I am thinking of(big fat ones) I
>have a few at home.

>
>Jimmie
--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

521. Re: Installing a Ladder Line to the house

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 18:04:03 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <guf9n45utnslf46efiqjkpfa3k858lpdfo@4ax.com>
Source record: 18145

On Thu, 8 Jan 2009 08:50:33 -0500, "Ed Cregger"
<ecregger@bellsouff.net> wrote:

>
>"Dave" <dave@dave.dave> wrote in message
>news:3pCdnVqr6LrVY_jUnZ2dnUVZ_sHinZ2d@earthlink.com...
>> Bob Miller wrote:
>>
>>>
>>> I've had good luck bringing 450-ohm line through the window using
>>> MFJ's 4602 window feed through board. It has ceramic feed through
>>> insulators for the balanced line, more feedthrough's for a random
>>> wire, three coax lines and a ground wire. Even includes weather
>>> stripping and a burgler bar.
>>>
>>> Bob
>>> k5qwg
>> That's through a window, not through a wall. I use the MFJ myself.
>>
>> If I did want to use non-resonant antennas I would locate a tuner at the
>> antenna feedpoint, not at the generator (transmitter).
>
>
>Then you would cheat yourself of a fair amount of propagation and some of
>the lower and higher frequencies available with such a set up.
>
>You're not going to keep RF out of the shack, regardless of which system you
>use. You might be able to keep some of the hot spots outside, but often
>times they are close enough to the station that it is really a waste of
>time.
>
>This fascination with resonance is a leftover from CB thinking. How many
>warships utilize resonant antennas? Yet they communicate the world over.

Yes, and they have bevy of antenna tuners to boot. Of course, some
radars use resonant antennas.

>
>The aversion to transmatches is a ham cultural trait that has no basis in
>reality, just as the CB'ers are hooked on resonant 50 ohm antennas. It's a
>characteristic of the culture(s) of both types of operators, with no basis
>in practical operating engineering.
>
>Ed, N2ECW
>

>

522. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 18:45:35 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <59i9n41bgnkacte38ucbhp1dhsffvm6q02@4ax.com>
Source record: 18146

On Mon, 19 Jan 2009 09:43:27 -0800, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>The over-simplified idea behind the ferrite (or powdered iron for HF)
>cores is to increase the inductance of the windings so the xformer
>works at lower frequencies. At VHF and UHF frequencies, the core
>mostly disappears and you're relying totally on the coupling between
>the bifilar windings.
>
Actually that is not the mechanism at all, simplified or complexified.

Ferrite compounds for BalUn application principally add resistance to
the common mode path and have (as a design goal) absolutely no
magnetic influence whatever. The increase of inductance is haphazard
at best, and some ferrite compounds actually increase the capacitive
reactance. As such, ferrites are not principally employed in building
inductors. Further, iron cores don't serve much purpose for choking
which is the principle requirement for BalUn input to output
isolation.

If you want to build an iron core, magnetic linkage transformer (AKA
audio or power transformer), this is a very different beast from a
BalUn, and a miserable replacement.

73's
Richard Clark, KB7QHC

523. test

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 20:01:27 UTC
From: w.mugge@home.nl
Message-ID: <3a53a$4974dc13$5ed71286$26180@cache5.tilbu1.nb.home.nl>
Source record: 18147

[No readable article body recovered]

524. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 21:06:32 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <zrydnZi0TIbBdunUnZ2dnUVZ_sHinZ2d@posted.easystreetonline>
Source record: 18150

Richard Clark wrote:
> On Mon, 19 Jan 2009 09:43:27 -0800, Jeff Liebermann <jeffl@cruzio.com>
> wrote:
>
>> The over-simplified idea behind the ferrite (or powdered iron for HF)
>> cores is to increase the inductance of the windings so the xformer
>> works at lower frequencies. At VHF and UHF frequencies, the core
>> mostly disappears and you're relying totally on the coupling between
>> the bifilar windings.
>>
> Actually that is not the mechanism at all, simplified or complexified.
>
> Ferrite compounds for BalUn application principally add resistance to
> the common mode path and have (as a design goal) absolutely no
> magnetic influence whatever. The increase of inductance is haphazard
> at best, and some ferrite compounds actually increase the capacitive
> reactance. As such, ferrites are not principally employed in building
> inductors. Further, iron cores don't serve much purpose for choking
> which is the principle requirement for BalUn input to output
> isolation.
>
> If you want to build an iron core, magnetic linkage transformer (AKA
> audio or power transformer), this is a very different beast from a
> BalUn, and a miserable replacement.
>
> 73's
> Richard Clark, KB7QHC

When designing any transformer, be it audio, power, or RF, you usually want to accomplish three things:

1. Maximize the winding impedance.
2. Minimize the leakage impedance. This is another way of saying you want to maximize the coupling between the windings.
3. Realize an acceptably low loss.

At low frequencies, most cores primarily provide inductance, so most literature dealing with transformers speaks of "inductance" rather than "impedance" when discussing the basic goals. But low frequency transformers could be made and would function just fine using resistive core materials if they were available. The third goal can be achieved with resistive materials as long as the first and second goals are accomplished well enough. That is, if the winding impedance is high enough, the magnetizing current will be low, so I^2*R loss will be low. And if coupling is good, increasing the current in one winding won't

appreciably increase the core flux and incur extra loss.

But at RF, as Richard says, many ferrite cores are more resistive than inductive. Not all are -- there are high frequency ferrites that remain inductive at very high frequencies. However, for the HF range and above, the best choice is usually "low frequency" ferrites which are primarily resistive in that frequency range. They're best for two reasons -- first, they provide much more impedance per turn squared than high frequency ferrites, making the first two goals much easier to achieve; and second, there are no resonance effects. An inductive winding will resonate with stray capacitance at some frequency. The impedance drops above that frequency, limiting the upper range of the transformer. The winding and leakage inductances can also resonate with external capacitance and cause ringing in some applications. A properly designed transformer using an essentially resistive core can operate very well over several decades of frequency.

For most RF applications, it's not hard to design a transformer or balun that will have well under 1 dB of loss, which is negligible again in most applications. But if high power is involved, even a fraction of a dB might represent several or may watts of power, resulting in intolerable core heating. In those applications, lower loss, i.e., more inductive and less resistive, cores have to be used, often resulting in more difficult design and/or reduced performance in other respects.

Resistive ferrites are also often good choices for RF chokes for the same reasons that they make good transformers.

High-Q inductors and tuned transformers are a different critter, though. For those applications you want to use very low loss, that is, inductive and not resistive, core materials. This often leads to confusion, since ferrite manufacturers have traditionally specified a "recommended" frequency range for various materials which refers to the best range for these applications. The best material for an RF transformer is usually one with a "recommended" (for high-Q inductor applications) frequency range well below the transformer operating frequency.

Roy Lewallen, W7EL

525. Re: Sun Spots During an Ice Age?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 21:13:44 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <msq9n4dvk3dqcntjc34b586f9e44n368ig@4ax.com>
Source record: 18148

On Wed, 14 Jan 2009 20:47:06 -0600, "David G. Nagel"
<nagel.david@sbcglobal.net> wrote:

>Dave wrote:
>> Art Unwin wrote:
>>
>>>
>>> Remember that it is predicted that our world will flip with respect to
>>> the poles
>>> thus the zenith of sun spots will alter by eleven years. Best to learn
>>> to swim before that happens. Last thing I heard was the magnetic pole
>>> was in Siberia and still going away. Hopefully there is
>>> still time for the poles to change their minds and return.
>>> Art
>>> Art
>>
>> The Earth's magnetic field does not affect when sunspots happen.
>Actually the northern magnetic pole is in Eastern Northern Canada and
>progressing slowly eastward.
>
>The current sunspot cycle is merely slow in appearing. The 11 year cycle
>is only an average. Some cycles are less than 11 yrs and some are longer.
>
>Dave

Actually there are a lot of solar cycles, 7 year, 11 year, 13 year,
and more. Not all have much to do with sunspots though. One is
correlated with human heartbeat for no reasonable reason.

A planetary magnetic minimum may produce much higher ionization in the
ionosphere. No bets on any of this, just wild speculation.

526. improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 21:15:11 UTC
From: runcyclexcski@gmail.com
Message-ID: <99bee1e7-e03c-4cb3-b4cb-5b8ecc591d44@w1g2000prk.googlegroups.com>
Source record: 18149

Hi all,

I've looked on the web, but with very little success. I have never posted to this group before, so I apologize if my question is lame.

I listen to the Bay Area's KGO 810 MHz a lot. Their transmitter is located in South San Fran Bay near the Dumbarton Bridge, and outpus 50 kW (that's what they say anyway). I am guessing, it's directed mostly at the Pacific coast line. I often listen while driving east on I-80 to Truckee/Tahoe for skiing and camping. Usually the signal fades substantially by the time I reach Sacramento - but it's still tolerable listening (by ear, S/N of ~3). By the time I reach Auburn it's essentially inaudible. Much better signal at night (~again, by ear, S/N improves by ~2). At night, I can sort of pick up words in truckee.

Question: can I *substantially* improve the S/N - say, factor of 2/5/10 by installing a better car antenna, so that, say, I could listen in the Sierras day and night? I do not care if the antenna is huge/geeky_looking, my car is being driven into the ground anyway. I would be happy to make this a DIY project - to save on $ and learn about radio. What kind of specs should I look for? I.e. I don't want to go on the web and blindly buy an antenna advertised to "boost" your AM radio reception - I would want some numbers.

I have limited knowledge in electronics, my background mostly is in biophysics and biochemistry. So if you steer me into the right direction I think I should be able figure it out.

527. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 21:35:49 UTC
From: Clive <Clive@petendud.com>
Message-ID: <gl2rnm$nb4$1@news.albasani.net>
Source record: 18051

runcyclexcski@gmail.com wrote:
> Hi all,
>
> I've looked on the web, but with very little success. I have never
> posted to this group before, so I apologize if my question is lame.
>
> I listen to the Bay Area's KGO 810 MHz a lot. Their transmitter is
> located in South San Fran Bay near the Dumbarton Bridge, and outpus 50
> kW (that's what they say anyway). I am guessing, it's directed mostly
> at the Pacific coast line. I often listen while driving east on I-80
> to Truckee/Tahoe for skiing and camping. Usually the signal fades
> substantially by the time I reach Sacramento - but it's still
> tolerable listening (by ear, S/N of ~3). By the time I reach Auburn
> it's essentially inaudible. Much better signal at night (~again, by
> ear, S/N improves by ~2). At night, I can sort of pick up words in
> truckee.
>
> Question: can I *substantially* improve the S/N - say, factor of
> 2/5/10 by installing a better car antenna, so that, say, I could
> listen in the Sierras day and night? I do not care if the antenna is
> huge/geeky_looking, my car is being driven into the ground anyway. I
> would be happy to make this a DIY project - to save on $ and learn
> about radio. What kind of specs should I look for? I.e. I don't want
> to go on the web and blindly buy an antenna advertised to "boost" your
> AM radio reception - I would want some numbers.
>
> I have limited knowledge in electronics, my background mostly is in
> biophysics and biochemistry. So if you steer me into the right
> direction I think I should be able figure it out.

If you have mobile Internet try this:-

http://wareseeker.com/Windows-Widgets/kgo-810-am-radio-player-1.2.zip/313700

HTH

Clive

528. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 21:40:43 UTC
From: runcyclexcski@gmail.com
Message-ID: <f6f48bd0-6504-447c-88b9-8a97d5530084@o4g2000pra.googlegroups.com>
Source record: 18052

>
> If you have mobile Internet try this:-
>
> http://wareseeker.com/Windows-Widgets/kgo-810-am-radio-player-1.2.zip...
>
> HTH
>
> Clive

That's a good one. I am often in places with no cell reception. I originally discovered KGO when I lived in La Honda, CA - it was the only radio station I could easily pick up. No cell reception and no FM there.

529. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 21:44:36 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <tLmdnf1NdeHWaenUnZ2dnUVZ8vidnZ2d@bt.com>
Source record: 18053

<runcyclexcski@gmail.com> wrote in message
news:99bee1e7-e03c-4cb3-b4cb-5b8ecc591d44@w1g2000prk.googlegroups.com...
> Hi all,
>
> I've looked on the web, but with very little success. I have never
> posted to this group before, so I apologize if my question is lame.
>
> I listen to the Bay Area's KGO 810 MHz a lot. Their transmitter is
> located in South San Fran Bay near the Dumbarton Bridge, and outpus 50
> kW (that's what they say anyway). I am guessing, it's directed mostly
> at the Pacific coast line. I often listen while driving east on I-80
> to Truckee/Tahoe for skiing and camping. Usually the signal fades
> substantially by the time I reach Sacramento - but it's still
> tolerable listening (by ear, S/N of ~3). By the time I reach Auburn
> it's essentially inaudible. Much better signal at night (~again, by
> ear, S/N improves by ~2). At night, I can sort of pick up words in
> truckee.
>
> Question: can I *substantially* improve the S/N - say, factor of
> 2/5/10 by installing a better car antenna, so that, say, I could
> listen in the Sierras day and night? I do not care if the antenna is
> huge/geeky_looking, my car is being driven into the ground anyway. I
> would be happy to make this a DIY project - to save on $ and learn
> about radio. What kind of specs should I look for? I.e. I don't want
> to go on the web and blindly buy an antenna advertised to "boost" your
> AM radio reception - I would want some numbers.
>
> I have limited knowledge in electronics, my background mostly is in
> biophysics and biochemistry. So if you steer me into the right
> direction I think I should be able figure it out.

Presumably you mean 810 kHz. What is the source of the noise? Noise generated in the receiver is usually insignificant in the medium-wave band. If the cause is other transmissions on the same and nearby frequencies you may not gain much by changing the antenna, but a receiver with better channel (IF) filtering may help if there is any contribution from adjacent channels. If the noise is coming from your car (does it improve when you park in a rural area) then you may need to improve the RF suppression of its circuitry (e.g. ignition if it's a petrol engined car).

I expect you can work out what tests would be needed to locate the principal sources of the noise.

Chris

530. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 22:45:39 UTC
From: runcyclexcski@gmail.com
Message-ID: <6dbcd20c-4038-40b8-8748-37ad883c5ecb@z28g2000prd.googlegroups.com>
Source record: 18054

>
> Presumably you mean 810 kHz. What is the source of the noise? Noise
> generated in the receiver is usually insignificant in the medium-wave band.
> If the cause is other transmissions on the same and nearby frequencies you
> may not gain much by changing the antenna, but a receiver with better
> channel (IF) filtering may help if there is any contribution from adjacent
> channels. If the noise is coming from your car (does it improve when you
> park in a rural area) then you may need to improve the RF suppression of its
> circuitry (e.g. ignition if it's a petrol engined car).
>
> I expect you can work out what tests would be needed to locate the principal
> sources of the noise.
>
> Chris

Yes, KHz, sorry.

The noise goes up several fold when I pass underneath bridges/pass big
trucks, etc. Does this suggest that the noise is from other
frequencies?

531. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 23:38:17 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <as-dnbX2aopwk-jUnZ2dnUVZ_ojinZ2d@posted.easystreetonline>
Source record: 18055

runcyclexcski@gmail.com wrote:
>
> Yes, KHz, sorry.
>
> The noise goes up several fold when I pass underneath bridges/pass big
> trucks, etc. Does this suggest that the noise is from other
> frequencies?

No. It means that the noise is coming from outside your car. Your antenna and radio can't tell the difference between this noise and the desired signal, so improving your antenna or increasing your receiver's sensitivity will simply increase the signal and noise in the same proportion. And because it's not coming from your own car, there's no way for you to reduce the noise. In other words, there's really nothing you can do to improve the S/N ratio in the presence of that noise.

Roy Lewallen, W7EL

532. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-19 23:52:16 UTC
From: runcyclexcski@gmail.com
Message-ID: <e2d9bf91-7792-4a46-8adf-34057a6e6d02@o40g2000prn.googlegroups.com>
Source record: 18056

On Jan 19, 3:38 pm, Roy Lewallen <w...@eznec.com> wrote:
> runcyclexc...@gmail.com wrote:
>
> > Yes, KHz, sorry.
>
> > The noise goes up several fold when I pass underneath bridges/pass big
> > trucks, etc. Does this suggest that the noise is from other
> > frequencies?
>
> No. It means that the noise is coming from outside your car. Your
> antenna and radio can't tell the difference between this noise and the
> desired signal, so improving your antenna or increasing your receiver's
> sensitivity will simply increase the signal and noise in the same
> proportion. And because it's not coming from your own car, there's no
> way for you to reduce the noise. In other words, there's really nothing
> you can do to improve the S/N ratio in the presence of that noise.
>
> Roy Lewallen, W7EL

>increase the signal and noise in the same proportion.
Is there anyway to "filter" the 810 frequency somehow?

533. Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 00:09:58 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <qD8dl.707$Aw2.531@nwrddc02.gnilink.net>
Source record: 18057

I read that an AM BCB radio station transmits through a vertical antenna. If this is true why does the signal diminish when i turn the ferrite rod antenna & radio receiver in a vertical position?

534. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 00:23:34 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <aQ8dl.714$Aw2.302@nwrddc02.gnilink.net>
Source record: 18058

<runcyclexcski@gmail.com> wrote in message
news:e2d9bf91-7792-4a46-8adf-34057a6e6d02@o40g2000prn.googlegroups.com...
On Jan 19, 3:38 pm, Roy Lewallen <w...@eznec.com> wrote:
> runcyclexc...@gmail.com wrote:
>
> > Yes, KHz, sorry.
>
> > The noise goes up several fold when I pass underneath bridges/pass big
> > trucks, etc. Does this suggest that the noise is from other
> > frequencies?
>
> No. It means that the noise is coming from outside your car. Your
> antenna and radio can't tell the difference between this noise and the
> desired signal, so improving your antenna or increasing your receiver's
> sensitivity will simply increase the signal and noise in the same
> proportion. And because it's not coming from your own car, there's no
> way for you to reduce the noise. In other words, there's really nothing
> you can do to improve the S/N ratio in the presence of that noise.
>
> Roy Lewallen, W7EL

>increase the signal and noise in the same proportion.
Is there anyway to "filter" the 810 frequency somehow?

Hi

Are you certain that the noise increases? I suspect the "signal"
decreases. It is entirely possible that the antenna on your vehicle is
inadequate.
Car antennas are *not* simple. They do appear simple. They often appear
to be a whip mounted above the fender. The way that fender whip is
connected to the receiver is critical.

Depending what type vehicle you have, the increase of sensitivity to 810
KHz could be to mount a stub atop the fender and connecting it to the
receiver with a Low Capacity coax line. In addition, the receiver can be
tuned at the place where the antenna connects to the first amplifer to
maximize sensitivity to 810 KHz.

Many new cars include an amplifier at the base of the antenna to increase
sensitivity.

Are you open to taking your car to a specialist to let them try to tune
your "antenna" to your receiver?

Jerry KD6JDJ

535. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 00:49:31 UTC
From: dave <dave@dave.dave>
Message-ID: <49751fa0$0$31202$bd467cd0@news.dslextreme.com>
Source record: 18059

runcyclexcski@gmail.com wrote:
>> Presumably you mean 810 kHz. What is the source of the noise? Noise
>> generated in the receiver is usually insignificant in the medium-wave band.
>> If the cause is other transmissions on the same and nearby frequencies you
>> may not gain much by changing the antenna, but a receiver with better
>> channel (IF) filtering may help if there is any contribution from adjacent
>> channels. If the noise is coming from your car (does it improve when you
>> park in a rural area) then you may need to improve the RF suppression of its
>> circuitry (e.g. ignition if it's a petrol engined car).
>>
>> I expect you can work out what tests would be needed to locate the principal
>> sources of the noise.
>>
>> Chris
>
> Yes, KHz, sorry.
>
> The noise goes up several fold when I pass underneath bridges/pass big
> trucks, etc. Does this suggest that the noise is from other
> frequencies?

Does it do this for KKOH as well? Try 780 and see if it exhibits
similar behavior. If not, it's the KGO signal. They are pretty anemic
to the East North East.

http://www.fccinfo.com/CMDProEngine.php?sCurrentService=AM&tabSearchType=Appl&sAppIDNumber
=249372&sHours=U

536. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 01:14:27 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <vk7an49j0hpkmgvhsneu0heimb33m5p1d1@4ax.com>
Source record: 18060

On Mon, 19 Jan 2009 13:15:11 -0800 (PST), runcyclexcski@gmail.com
wrote:

>I often listen while driving east on I-80
>to Truckee/Tahoe for skiing and camping. Usually the signal fades
>substantially by the time I reach Sacramento - but it's still
>tolerable listening (by ear, S/N of ~3).

Daytime coverage map:
<http://www.radio-locator.com/cgi-bin/pat?call=KGO&service=AM&status=L&hours=D>
2.5, 0.5 and 0.15 mV/m contours. It still should be usable in
Sacramento. Something is wrong.

When you're in Sacramento, have some other driver try their vehicles
AM radio on KGO and see if it's the same. If it's better, it's time
to go shopping for a new radio or a new antenna system on your
vehicle. In particular, try to find a real short wave radio with an
ignition noise blanker, to use for the comparison. Also try it with
the engine off and see if things improve. If all the other radios and
conditions sound roughly the same, give up.

Incidentally, there's usually an adjustable trimmer capacitor to tune
the car antenna somewhere on the radio. It's usually hidden behind
the volume or tuning dial (on older radios with dials) or right on the
front panel on later model radios. Find a weak station and tune for
maximum.

>Question: can I *substantially* improve the S/N - say, factor of
>2/5/10 by installing a better car antenna, so that, say, I could
>listen in the Sierras day and night?

No. Look at the map. You're in fringe-land in the Sierras. The only
way that's going to work is if you get away from local noise sources
(i.e. engines, get a decent antenna, and if propagation is in your
favor). It's possible, but not guaranteed or reliable. Back when I
was getting started in radio, I was a SWL (short wave listener) which
included listening to distant AM broadcast stations. I could hear the
world, but only at random times, not for very long, and certainly not
with armchair listening quality.

Strangely enough, some practice listening to a noisy AM station may
actually improve the quality. I was out of radio for perhaps 15
years. When I dived back in, I couldn't understand anyone on the
radio. It took about a month of listening to "tune" my ear so that I
would mentally ignore the noise and interference. The same thing
happened when I spent 10 years driving back and forth to Smog Angeles

twice a month. I would listen to KSCO on the way. The more I
listened, the better the station sounded.

>I do not care if the antenna is
>huge/geeky_looking, my car is being driven into the ground anyway.

A big antenna may not help much. It will pickup more signal, but also
more noise. The ratio of the signal to the noise will remain roughly
constant, resulting in no net improvement.

>I have limited knowledge in electronics, my background mostly is in
>biophysics and biochemistry. So if you steer me into the right
>direction I think I should be able figure it out.

You might look into satellite radio (XM/Sirius). They don't have KGO
but might have equally useful or interesting programming. The nice
part is that it works anywhere.

On the other hand, if you don't need current listening, just have
someone record a days worth of KGO in MP3 format, and play it on a
cheap MP3 player. It may be a day late, but unless you're into the
news, weather, traffic, or sports, it probably doesn't matter being a
day late.

Google Maps
<http://maps.google.com/maps?f=q&hl=en&q=37.52639,+-122.10056+(KGO-AM)&om=1>

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

537. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 01:24:45 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <om9an4lheps7eifram3jf953p5rimsilmt@4ax.com>
Source record: 18061

On Mon, 19 Jan 2009 17:14:27 -0800, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>Daytime coverage map:
><http://www.radio-locator.com/cgi-bin/pat?call=KGO&service=AM&status=L&hours=D>
>2.5, 0.5 and 0.15 mV/m contours. It still should be usable in
>Sacramento. Something is wrong.

More:
<http://www.fcc.gov/fcc-bin/amq?list=0&facid=34471>
<http://www.fcc.gov/ftp/Bureaus/MB/Databases/AM_DA_patterns/249372-2649.pdf>
The antenna pattern is pretty much dead to the east and north-east.

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

538. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 02:57:19 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <j4bdl.805$al1.195@nwrddc01.gnilink.net>
Source record: 18062

"Spin" <noemail@alone.invalid> wrote in message
news:qD8dl.707$Aw2.531@nwrddc02.gnilink.net...
>I read that an AM BCB radio station transmits through a vertical antenna.
>If this is true why does the signal diminish when i turn the ferrite rod
>antenna & radio receiver in a vertical position?
>
I think you are confusing the polarity of the ferrite rod with the polarity
of the E field of the ferrite rod antenna- they are not the same.

539. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 03:48:32 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <A4ydnXEV8MgJ1OjUnZ2dnUVZ_r6dnZ2d@posted.easystreetonline>
Source record: 18063

runcyclexcski@gmail.com wrote:

> Is there anyway to "filter" the 810 frequency somehow?

The noise is also at 810 kHz.

Noise can sometimes be separated from a signal at the same frequency if there's some distinguishing characteristic of the noise, like fast rise time or a periodic nature, so it can be selectively removed. One device that can do this for a few special noise types is a "noise blanker". Modern audio signal processors (or "digital signal processors" - DSP) are considerably more sophisticated and can remove a wider range of noise types. But good ones aren't cheap, and probably not easily adapted to your radio. And they do best when the incoming S/N ratio is reasonable. You'll be encountering a pretty wide range of noise sources as you drive along, so I doubt that any kind of processor would be very successful at removing all, or even a substantial portion, of them.

Roy Lewallen, W7EL

540. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 06:30:11 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Ubedl.17546$Ew6.7192@newsfe22.iad>
Source record: 18064

<runcyclexcski@gmail.com> wrote in message
news:99bee1e7-e03c-4cb3-b4cb-5b8ecc591d44@w1g2000prk.googlegroups.com...

< snip >

> Question: can I *substantially* improve the S/N - say, factor of
> 2/5/10 by installing a better car antenna, so that, say, I could
> listen in the Sierras day and night? I do not care if the antenna is
> huge/geeky_looking, my car is being driven into the ground anyway. I
> would be happy to make this a DIY project - to save on $ and learn
> about radio. What kind of specs should I look for? I.e. I don't want
> to go on the web and blindly buy an antenna advertised to "boost" your
> AM radio reception - I would want some numbers.
>
> I have limited knowledge in electronics, my background mostly is in
> biophysics and biochemistry. So if you steer me into the right
> direction I think I should be able figure it out.

I needed to abandon my van's fender-mount antenna because the shield ground broke and AM reception was pretty awful, with spark plug noise and assorted clicks and pops whenever I wasn't parked.

I got a connector adapter which plugged into the antenna jack on the back of the radio. I connected a VHF magnetic mount ham radio antenna to it. I now have a cable running between the bucket seats and out the back door but I have really good AM/FM reception. On long trips, like across the southern deserts, I unscrew the standard element and replace it with a longer element (about 4') and AM reception is improved dramatically. The cable from the fender-mount antenna dangles inside the dashboard, unseen and unused.

If you think you might tackle such a project, post again and I'll provide more details. Having a limited knowledge of electronics is not a problem; finding just the right parts is.

"Sal"

541. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 08:41:40 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <GPZSw2JE5YdJFwWX@g3ohx.demon.co.uk>
Source record: 18065

In message <j4bdl.805$aI1.195@nwrddc01.gnilink.net>, Dale Parfitt
<parinc1@verizon.net> writes
>
>"Spin" <noemail@alone.invalid> wrote in message
>news:qD8dl.707$Aw2.531@nwrddc02.gnilink.net...
>>I read that an AM BCB radio station transmits through a vertical antenna.
>>If this is true why does the signal diminish when i turn the ferrite rod
>>antenna & radio receiver in a vertical position?
>>
>I think you are confusing the polarity of the ferrite rod with the polarity
>of the E field of the ferrite rod antenna- they are not the same.
>

A classic non-answer, I think!

If someone asks question like this, I reckon that they probably know
nothing about E and H fields, and I would attempt to give a simple (but
essentially factual) answer using layman's terms.

So, Dale Parfitt, maybe you would like to have another try?
--
Ian

542. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 12:20:41 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <0f523b07-eb06-4700-a754-76ccb122052d@40g2000prx.googlegroups.com>
Source record: 18066

On Jan 19, 7:14 pm, Jeff Liebermann wrote:
> Daytime coverage map:
> <http://www.radio-locator.com/cgi-bin/pat?call=KGO&service=AM&status=L...>
> 2.5, 0.5 and 0.15 mV/m contours. It still should be usable in
> Sacramento. Something is wrong.

Agree. The link below leads to an example of the noise on a weak, daytime AM signal received from WBBM, Chicago (50 kW non-D on 780 kHz) on a Sony ICF-2002 with its internal antenna, indoors in an urban location. The groundwave path from WBBM to the receiver is about 225 miles in length. According to the FCC propagation curves, WBBM has a daytime groundwave field intensity of about 0.14 mV/m for this path (probably less in an urban area).

The noise in this MP3 clip maybe is tolerable for short-term listening, or if there is nothing better receivable.

The recording was made Jan 10, 2009 at about 12:30 pm CST.

http://www.datafilehost.com/download-18b37f18.html

RF

543. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 13:54:04 UTC
From: Dave <dave@dave.dave>
Message-ID: <eP-dnWCdiPbhSujUnZ2dnUVZ_jSdnZ2d@earthlink.com>
Source record: 18067

Spin wrote:
> I read that an AM BCB radio station transmits through a vertical antenna. If
> this is true why does the signal diminish when i turn the ferrite rod
> antenna & radio receiver in a vertical position?
>
>
Magnetic wave?

544. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 13:58:53 UTC
From: Dave <dave@dave.dave>
Message-ID: <eP-dnWOdiPYARejUnZ2dnUVZ_jQAAAAA@earthlink.com>
Source record: 18068

Richard Fry wrote:
> On Jan 19, 7:14 pm, Jeff Liebermann wrote:
>> Daytime coverage map:
>> <http://www.radio-locator.com/cgi-bin/pat?call=KGO&service=AM&status=L...>
>> 2.5, 0.5 and 0.15 mV/m contours. It still should be usable in
>> Sacramento. Something is wrong.
>
> Agree. The link below leads to an example of the noise on a weak,
> daytime AM signal received from WBBM, Chicago (50 kW non-D on 780 kHz)
> on a Sony ICF-2002 with its internal antenna, indoors in an urban
> location. The groundwave path from WBBM to the receiver is about 225
> miles in length. According to the FCC propagation curves, WBBM has a
> daytime groundwave field intensity of about 0.14 mV/m for this path
> (probably less in an urban area).
>

In this situation a Select-A-Tenna will work wonders. No good for a car
radio, however.

http://www.old-fashioned-values.com/get_item_select-a-tenna_improve-am-radio-reception-sel
ect-a-tenna.htm

545. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 17:29:14 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <991c7a47-7c3f-4bfe-bb18-11bc098e1e41@u18g2000pro.googlegroups.com>
Source record: 18069

On Jan 20, 7:58 am, Dave <d...@dave.dave> wrote:
> Richard Fry wrote:
> > On Jan 19, 7:14 pm, Jeff Liebermann wrote:
> >> Daytime coverage map:
> >> <http://www.radio-locator.com/cgi-bin/pat?call=KGO&service=AM&status=L...>
> >> 2.5, 0.5 and 0.15 mV/m contours. It still should be usable in
> >> Sacramento. Something is wrong.
>
> > Agree. The link below leads to an example of the noise on a weak,
> > daytime AM signal received from WBBM, Chicago (50 kW non-D on 780 kHz)
> > on a Sony ICF-2002 with its internal antenna, indoors in an urban
> > location. The groundwave path from WBBM to the receiver is about 225
> > miles in length. According to the FCC propagation curves, WBBM has a
> > daytime groundwave field intensity of about 0.14 mV/m for this path
> > (probably less in an urban area).
>
> In this situation a Select-A-Tenna will work wonders. No good for a car
> radio, however.
>
> http://www.old-fashioned-values.com/get_item_select-a-tenna_improve-a...

On a lot of AM auto radios the SN ratio really stinks and an external
preamp especially one with some preselection can really help. As
previously stated on radios with adequate sigal to noise ratio adding
a preamp just makes things worse.

Jimmie

546. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 17:38:16 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <46adnTNJkeGSkevUnZ2dnUVZ8oGdnZ2d@bt.com>
Source record: 18070

"Spin" <noemail@alone.invalid> wrote in message
news:qD8dl.707$Aw2.531@nwrddc02.gnilink.net...
>I read that an AM BCB radio station transmits through a vertical antenna.
>If this is true why does the signal diminish when i turn the ferrite rod
>antenna & radio receiver in a vertical position?

A ferrite rod antenna responds to the magnetic-field component of the radio wave radiated by the transmitting station.

All significant AM medium-wave and long-wave stations use one or more vertical conductors as their transmitting antenna and the current passing through this conductor generates a magnetic field. The current path is vertical so the resulting lines of magnetic force are loops surrounding this vertical path - that is, loops in planes parallel to the surface of the earth. Some distance away from the transmitting antenna, the outgoing radio wave can be described by a magnetic field component aligned the same as these loops, that is horizontal lines at any point of inspection, or by an electric field component aligned perpendicularly, that is vertical. By convention, the 'polarisation' of a single radio wave is the direction of its electric field component and vertical polarisation is used for MW/LW because it yields much better range for the same power than horizontal polarisation (which would try to develop an electric field on the surface of the conducting earth).

To couple power out from this radio wave requires a coil or loop to draw current from the magnetic field or a dipole to derive voltage from the electric field (from which to draw current). A coil couples to a magnetic field when the lines of magnetic force pass through it ... so your ferrite rod antenna works best when it is aligned with its axis horizontal.

Chris

... let the flames begin!

547. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 18:37:47 UTC
From: JB <nospam@goofball.net>
Message-ID: <%Rodl.859$Aw2.192@nwrddc02.gnilink.net>
Source record: 18071

> I got a connector adapter which plugged into the antenna jack on the back
of
> the radio. I connected a VHF magnetic mount ham radio antenna to it. I
now
> have a cable running between the bucket seats and out the back door but I
> have really good AM/FM reception. On long trips, like across the southern
> deserts, I unscrew the standard element and replace it with a longer
element
> (about 4') and AM reception is improved dramatically. The cable from the
> fender-mount antenna dangles inside the dashboard, unseen and unused.

I have done the same thing with a spare 2 meter 5/8 whip (without the base matching coil) on the roof with excellent results. The length is little longer than stock. I used to own an older European car that had a 3 section whip that was nearly 5' long fully extended and I wish I could find another. A 102" CB whip will do better on AM (although less optimal for FM). There used to be CB/AM/FM splitters for truckers, but I don't know how well they work. The stock whip is far short considering the wavelength, so the longest you can get on the car will only improve the capture area. As mentioned, you will notice a peak if you adjust the trimmer in the radio to your new antenna. They are usually peaked for 1300 kc anyway, so that might be something to toy with first if you don't mind sacrificing the high end of the band. An HF antenna with tuner would be the best you could do. In the campsite, you can clip a longwire on and throw it in the trees.

548. [SPAM]-German book about antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 20:14:20 UTC
From: "::: l a t a v i e c :::" <xcvxc@dvfdvcx.lk>
Message-ID: <gl5br9$154$4@nemesis.news.neostrada.pl>
Source record: 18072

http://allegro.pl/show_item.php?item=535461269
If you want to buy and you don't anderstand Polish send me email:
noluf@wp.pl

--

--
pozdrawiam
::: l a t a v i e c :::
----
marcin szczesny
szczesny.com.pl

549. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 20:15:38 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9B9A49DBA34Cnonenowhere@61.9.191.5>
Source record: 18073

Roy Lewallen <w7el@eznec.com> wrote in
news:zrydnZi0TIbBdunUnZ2dnUVZ_sHinZ2d@posted.easystreetonline:

...
> But at RF, as Richard says, many ferrite cores are more resistive than
> inductive. Not all are -- there are high frequency ferrites that
> remain inductive at very high frequencies. However, for the HF range
> and above, the best choice is usually "low frequency" ferrites which
> are primarily resistive in that frequency range. They're best for two
> reasons -- first, they provide much more impedance per turn squared
> than high frequency ferrites, making the first two goals much easier
> to achieve; and second, there are no resonance effects. An inductive
> winding will resonate with stray capacitance at some frequency. The
> impedance drops above that frequency, limiting the upper range of the
> transformer. The winding and leakage inductances can also resonate
> with external capacitance and cause ringing in some applications. A
> properly designed transformer using an essentially resistive core can
> operate very well over several decades of frequency.

Hams have a affinity for powdered iron cores in RF applications, mislead
by the thought that low loss material naturally produces a better
solution. Thing is that it is a huge leap from low loss *material* to a
low loss *solution*.

Here is a recent design for a Guanella 1:1 balun for 6m and 2m on a #61
ferrite core: http://www.vk1od.net/balun/G1-1-FT140-61/index.htm .

The article contains a graph of the material characteristics, which
shows that at 2m, &#65533;' has fallen to 10% or so of &#65533;i, and &#65533;" has risen,
so an inductor will be more resistive than inductive.

But, does that make it a poor TLT? Not at all, it has very high common
mode or choking impedance (a critical performance parameter that is
rarely reported for commercial baluns).

Would such a balun wound on a powdered iron core work better? Probably
not. I say probably because I have been unable to find manufacturer's
loss data for powdered iron materials above about 5MHz. The probability
is that a powdered iron core would yeild a balun with a choking
impedance that is lower and more inductive than resistive and may likely
be *more* lossy. (I have a prospective project to measure a couple of
powdered iron cores at 6m to further explore this, but they will not be
lab grade measurements.)

The key is in thinking about I^2*R. The lossy ferrite balun has very
high Z, so very low I, very high R, and the product of I^2*R is

relatively low. A powdered iron choke will have lower Z, so higher I, low R, and the product I^2*R may be quite higher than the ferrite.

Higher choking impedance can reduce loss, even if the higher choking impedance is by way of a lower Q inductor. The characteristic is a curve, concave down and the trick is to choose a design (whether it is powdered iron, air cored, or ferrite cored) for acceptable loss, and that often means an operating point that is well on the right hand side or the left hand of the curve maximum.

Another facet of ferrite TLTs operated in their lossy region, is that they remain useful well above the device self resonance, whereas when choking depends on a high Q impedance, it rapidly falls above resonance. (Self resonance is ignored in most models of balun performance that I have seen.)

Owen

550. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 21:49:04 UTC
From: nm5k@wt.net
Message-ID: <9fd83e74-03b4-4838-811a-67fe6046c519@n33g2000pri.googlegroups.com>
Source record: 18074

On Jan 20, 11:29 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:

> On a lot of AM auto radios the SN ratio really stinks and an external
> preamp especially one with some preselection can really help. As
> previously stated on radios with adequate sigal to noise ratio adding
> a preamp just makes things worse.
>
> Jimmie

I wouldn't say that. Most all the auto AM radios I've had were
quite good. Always plenty of sensitivity as long as the antenna
was functioning correctly.
The current car I'm driving "Corolla" uses a small helically wound
antenna, which is at the rear of the roof. It's pretty short overall,
and I still have plenty of sensitivity. The daytime is the best time
to check that, and I've never had any trouble receiving out of
town stations. And if I tune to an open frequency, I hear background
atmospheric noise, so any increase in sensitivity is pretty much
useless. I've had older Delco radios in cars and the AM was
excellent on those.
If the OP can hear background noise when tuned to an empty
frequency, and not have it sound "dead", adding more pre-amp
is unlikely to help.
I think the main culprit in this case is propagation, and the
pattern of the array, and unfortunately, I think he's basically
out of luck. Normally you would probably be able to hear the
ground wave out to at least 200-300 miles in the daytime,
but that assumes a fairly stout signal. If the pattern is away
from that direction, even the ground wave possibilities start
to look kind of bleak.
If an auto AM radio does not have enough sensitivity, it usually
means there is something wrong with it, or the antenna.
Most as they come from the factory have more than enough.

551. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 21:53:57 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <F8mdnWf6maFr2uvUnZ2dnUVZ_qninZ2d@posted.easystreetonline>
Source record: 18075

Owen Duffy wrote:
>
> Hams have a affinity for powdered iron cores in RF applications, mislead
> by the thought that low loss material naturally produces a better
> solution. Thing is that it is a huge leap from low loss *material* to a
> low loss *solution*.

> . . .

> Would such a balun wound on a powdered iron core work better? Probably
> not. I say probably because I have been unable to find manufacturer's
> loss data for powdered iron materials above about 5MHz. The probability
> is that a powdered iron core would yeild a balun with a choking
> impedance that is lower and more inductive than resistive and may likely
> be *more* lossy. (I have a prospective project to measure a couple of
> powdered iron cores at 6m to further explore this, but they will not be
> lab grade measurements.)

> . . .

Like ferrites, powdered irons come with a wide range of characteristics. Micrometals (http://micrometals.com) makes the popular -2 (red), -6 (yellow), and other cores which are very suitable for high-Q inductors at HF, as well as lower frequency mixes. I have a book of "Q curves" they published which characterizes a number of inductors to fairly high frequencies. But for most of my work I've simply wound inductors and measured their Qs with a simple home made Q meter. I use -6 and to a lesser extent -2 cores for inductors in nearly all HF filter and matching applications. I've used lower frequency powdered iron cores for RF chokes. They behave a lot like low frequency ferrites, but are characterized by tolerance of very high flux densities. I'm sure that some low frequency powdered iron cores would be fine for baluns and broad band transformers, but they're not nearly as available as ferrites and high frequency powdered iron cores.

I highly recommend that anyone anticipating using ferrite or powdered iron cores invest in an "antenna analyzer". It allows a very quick and easy characterization of cores at the frequencies of interest.

Roy Lewallen, W7EL

552. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-20 23:37:36 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <4ftdl.912$Aw2.62@nwrddc02.gnilink.net>
Source record: 18076

So in receiving the AM BCB frequencies in the united states, a vertical antenna is 'generally' preferable over a horizontal antenna? The above is based on having a receiver without any internal antenna.
"christofire" <christofire@btinternet.com> wrote in message news:46adnTNJkeGSkevUnZ2dnUVZ8oGdnZ2d@bt.com...
>
> "Spin" <noemail@alone.invalid> wrote in message
> news:qD8dl.707$Aw2.531@nwrddc02.gnilink.net...
>>I read that an AM BCB radio station transmits through a vertical antenna.
>>If this is true why does the signal diminish when i turn the ferrite rod
>>antenna & radio receiver in a vertical position?
>
>
> A ferrite rod antenna responds to the magnetic-field component of the
> radio wave radiated by the transmitting station.
>
> All significant AM medium-wave and long-wave stations use one or more
> vertical conductors as their transmitting antenna and the current passing
> through this conductor generates a magnetic field. The current path is
> vertical so the resulting lines of magnetic force are loops surrounding
> this vertical path - that is, loops in planes parallel to the surface of
> the earth. Some distance away from the transmitting antenna, the outgoing
> radio wave can be described by a magnetic field component aligned the same
> as these loops, that is horizontal lines at any point of inspection, or by
> an electric field component aligned perpendicularly, that is vertical. By
> convention, the 'polarisation' of a single radio wave is the direction of
> its electric field component and vertical polarisation is used for MW/LW
> because it yields much better range for the same power than horizontal
> polarisation (which would try to develop an electric field on the surface
> of the conducting earth).
>
> To couple power out from this radio wave requires a coil or loop to draw
> current from the magnetic field or a dipole to derive voltage from the
> electric field (from which to draw current). A coil couples to a magnetic
> field when the lines of magnetic force pass through it ... so your ferrite
> rod antenna works best when it is aligned with its axis horizontal.
>
> Chris
>
> ... let the flames begin!
>

553. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 00:24:40 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <0e2a09b7-65ff-4109-8177-a67283b3c38c@r10g2000prf.googlegroups.com>
Source record: 18077

On Jan 20, 5:37 pm, "Spin" wrote:
> So in receiving the AM BCB frequencies in the united states, a vertical
> antenna is 'generally' preferable over a horizontal antenna? The above is
> based on having a receiver without any internal antenna.

If an AM BCB receiver has NO internal antenna, then almost ANY
external antenna will improve its AM BCB performance.

The greatest improvement in that performance will be achieved when the
intrinsic E or H gain of the receiving antenna matches that of the
radiated EM wave (in the US, or elsewhere).

RF

554. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 00:25:23 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <qbSdnRT_x-7u9uvUnZ2dnUVZ_tzinZ2d@posted.easystreetonline>
Source record: 18078

Spin wrote:
> So in receiving the AM BCB frequencies in the united states, a vertical
> antenna is 'generally' preferable over a horizontal antenna? The above is
> based on having a receiver without any internal antenna.

Not only the USA but world wide -- the laws of physics are the same everywhere. During the day, propagation at BCB frequencies is by surface wave. Only vertically polarized waves propagate this way, so all AM broadcast stations use vertical antennas to produce vertically polarized waves. These are best received with a vertically polarized antenna.

At night, AM broadcast signals can be propagated relatively long distances by being reflected or refracted by the ionosphere. When that happens, the polarization is rotated in a seemingly random fashion, so horizontally polarized receiving antennas aren't at such a disadvantage.

Roy Lewallen, W7EL

555. Re: Antenna Polarization Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 02:01:07 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <6amdnQ6qhI1-HOvUnZ2dnUVZ_qLinZ2d@posted.easystreetonline>
Source record: 18079

Richard Fry wrote:
> . . .
> The greatest improvement in that performance will be achieved when the
> intrinsic E or H gain of the receiving antenna matches that of the
> radiated EM wave (in the US, or elsewhere).

What's "intrinsic E or H gain"? In what way does it differ from gain calculated relative to an isotropic source? How does one calculate the gain of an EM wave?

Roy Lewallen, W7EL

556. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 02:29:13 UTC
From: Dave <dave@dave.dave>
Message-ID: <Z86dnVdFc4LnFevUnZ2dnUVZ_v7inZ2d@earthlink.com>
Source record: 18080

Owen Duffy wrote:

>
> Hams have a affinity for powdered iron cores in RF applications, mislead
> by the thought that low loss material naturally produces a better
> solution.

All hams?

557. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 02:30:21 UTC
From: Dave <dave@dave.dave>
Message-ID: <Z86dnVZFc4IgFevUnZ2dnUVZ_v7inZ2d@earthlink.com>
Source record: 18081

nm5k@wt.net wrote:
> On Jan 20, 11:29 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>

> The current car I'm driving "Corolla" uses a small helically wound
> antenna, which is at the rear of the roof. It's pretty short overall,
> and I still have plenty of sensitivity.

Newer cars have active antennas.

558. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 03:45:43 UTC
From: Dave <dave@dave.dave>
Message-ID: <kIudnfOxR_z6B-vUnZ2dnUVZ_j2dnZ2d@earthlink.com>
Source record: 18082

Dave wrote:
> nm5k@wt.net wrote:
>> On Jan 20, 11:29 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>>
>
>> The current car I'm driving "Corolla" uses a small helically wound
>> antenna, which is at the rear of the roof. It's pretty short overall,
>> and I still have plenty of sensitivity.
>
> Newer cars have active antennas.

The helical on some antennas is for wind noise.

559. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 03:48:05 UTC
From: Michael <micoder@sbcglobal.net>
Message-ID: <VVwdl.36894$4a3.19535@fe11.news.easynews.com>
Source record: 18083

I can speak from an experience I had.

I needed better reception on a car radio because I lived in a rural
area. This was years ago but might still apply

I installed a full height 1/4 wave cb whip antenna. I ran the same coax
that came with the original antenna. My radio had a tuning capacitor in
the back of it.

I peaked for maximum signal. Voila, it was much better.

If there is no tuning capacitor in the back of your radio, I suspect
this fix will not work at all.

runcyclexcski@gmail.com wrote:
> Hi all,
>
> I've looked on the web, but with very little success. I have never
> posted to this group before, so I apologize if my question is lame.
>
> I listen to the Bay Area's KGO 810 MHz a lot. Their transmitter is
> located in South San Fran Bay near the Dumbarton Bridge, and outpus 50
> kW (that's what they say anyway). I am guessing, it's directed mostly
> at the Pacific coast line. I often listen while driving east on I-80
> to Truckee/Tahoe for skiing and camping. Usually the signal fades
> substantially by the time I reach Sacramento - but it's still
> tolerable listening (by ear, S/N of ~3). By the time I reach Auburn
> it's essentially inaudible. Much better signal at night (~again, by
> ear, S/N improves by ~2). At night, I can sort of pick up words in
> truckee.
>
> Question: can I *substantially* improve the S/N - say, factor of
> 2/5/10 by installing a better car antenna, so that, say, I could
> listen in the Sierras day and night? I do not care if the antenna is
> huge/geeky_looking, my car is being driven into the ground anyway. I
> would be happy to make this a DIY project - to save on $ and learn
> about radio. What kind of specs should I look for? I.e. I don't want
> to go on the web and blindly buy an antenna advertised to "boost" your
> AM radio reception - I would want some numbers.
>
> I have limited knowledge in electronics, my background mostly is in
> biophysics and biochemistry. So if you steer me into the right
> direction I think I should be able figure it out.

560. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 04:24:35 UTC
From: nm5k@wt.net
Message-ID: <d1b13196-1603-4f53-91c2-625bfff179fb@o40g2000prn.googlegroups.com>
Source record: 18084

On Jan 20, 8:30 pm, Dave <d...@dave.dave> wrote:
> n...@wt.net wrote:
> > On Jan 20, 11:29 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
>
> > The current car I'm driving "Corolla" uses a small helically wound
> > antenna, which is at the rear of the roof. It's pretty short overall,
> > and I still have plenty of sensitivity.
>
> Newer cars have active antennas.

I don't think mine is, but I'm not sure. It's basically the
same setup as any other antenna, just the whip is
shorter, and helically wound, I suppose for tuning purposes.
I guess it's about 15 or so inches long. I'd have to measure
it. Of course, it also functions for FM too.

561. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 06:03:35 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9B9AAD8AE7A37nonenowhere@61.9.191.5>
Source record: 18085

Dave <dave@dave.dave> wrote in
news:Z86dnVdFc4LnFevUnZ2dnUVZ_v7inZ2d@earthlink.com:

> Owen Duffy wrote:
>
>>
>> Hams have a affinity for powdered iron cores in RF applications, mislead
>> by the thought that low loss material naturally produces a better
>> solution.
>
> All hams?
>

Your words, not mine.

Owen

562. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 09:15:08 UTC
From: "-.-. --.-" <a@a.com>
Message-ID: <gl6p2v$t76$1@nnrp-beta.newsland.it>
Source record: 18086

"Michael" <micoder@sbcglobal.net> ha scritto nel messaggio
news:VVwdl.36894$4a3.19535@fe11.news.easynews.com...
>is no tuning capacitor in the back of your radio, I suspect this fix will
>not work at all.

Nobody prevent you to add it externally, i think.

BTW... curious to know if any ferrite antenna or 2x ferrite antennas in a
sort of cross-coupled way mounted in a waterproof container perform better
than whips. I goggled, but can't find a gain table for ferrite antennas vs.
dipole, or a medium dBI gain (negative, i suppose) for ferrite antennas
mounted into the commons consumer radios.

Chris, -.-. --.-

563. LDG z100 Automatic Tuner

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 13:29:22 UTC
From: GeoNomad <pjennings@gmail.com>
Message-ID: <5329dd1e-eb29-470c-babb-4146ad4dd563@i24g2000prf.googlegroups.com>
Source record: 18087

$100 plus s/h. AB6WM@benlo.com

564. Re: CB Base Antenna Cleaning Service

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 15:24:22 UTC
From: mopeyzakween@yahoo.com
Message-ID: <22279cd2-d068-4536-afb2-d82737603785@s9g2000prg.googlegroups.com>
Source record: 18088

On Jan 19, 11:35 am, "KC8QJP" <KC8...@yahoo.com> wrote:
> http://cgi.ebay.com/CB-Base-Antenna-Cleaning-Service_W0QQitemZ1302820...

A measure recently taken that will have repercussions that will
indicate exactly how severely your actions have impacted upon fellow
keyclowns.

This measure was taken in your honor. You'll be hearing about it, but
not from us.

565. Re: 1600 Watt Double Bazooka

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 15:24:46 UTC
From: mopeyzakween@yahoo.com
Message-ID: <2fc9075e-5125-4a8d-a945-9b8837cb3485@f40g2000pri.googlegroups.com>
Source record: 18089

On Jan 19, 11:30 am, "KC8QJP" <KC8...@yahoo.com> wrote:
> http://cgi.ebay.com/1600-Watt-Double-Bazooka-dipole-CB-base-radio-ant...

A measure recently taken that will have repercussions that will
indicate exactly how severely your actions have impacted upon fellow
keyclowns.

This measure was taken in your honor. You'll be hearing about it, but
not from us.

566. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 15:59:16 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <V9SdnWGzmqvG2-rUnZ2dnUVZ8imdnZ2d@bt.com>
Source record: 18090

"-.-. --.-" <a@a.com> wrote in message
news:gl6p2v$t76$1@nnrp-beta.newsland.it...
>
> "Michael" <micoder@sbcglobal.net> ha scritto nel messaggio
> news:VVwdl.36894$4a3.19535@fe11.news.easynews.com...
>>is no tuning capacitor in the back of your radio, I suspect this fix will
>>not work at all.
>
> Nobody prevent you to add it externally, i think.
>
> BTW... curious to know if any ferrite antenna or 2x ferrite antennas in a
> sort of cross-coupled way mounted in a waterproof container perform better
> than whips. I goggled, but can't find a gain table for ferrite antennas
> vs. dipole, or a medium dBI gain (negative, i suppose) for ferrite
> antennas mounted into the commons consumer radios.
>
> Chris, -.-. --.-

Amongst several other factors, it depends how you combine the signals from two crossed ferrite rods/coils - simple in-phase addition of their signals won't yield a radiation pattern that is omni-directional in the horizontal plane.

Magnetic antennas are sometimes considered beneficial for mobile reception of medium/lomg-wave signals because they can be made insensitive to electric fields, and evidence can be found of greater fluctuation of the electric field of the wanted signal vs. the magnetic component. Also, some forms of interference are found to present stronger electric fields than magnetic ones. However, obtaining the requisite omni pattern isn't trivial.

Chris

567. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 16:15:50 UTC
From: Dan Richardson <k6mhe@k6mhe.com>
Message-ID: <o3ien4dvik8l04ibctq1amstuf039qp0ad@4ax.com>
Source record: 18091

On Tue, 20 Jan 2009 20:15:38 GMT, Owen Duffy <none@no.where> wrote:
>
>Hams have a affinity for powdered iron cores in RF applications, mislead
>by the thought that low loss material naturally produces a better
>solution. Thing is that it is a huge leap from low loss *material* to a
>low loss *solution*.
>
>Here is a recent design for a Guanella 1:1 balun for 6m and 2m on a #61
>ferrite core: http://www.vk1od.net/balun/G1-1-FT140-61/index.htm .
>
>The article contains a graph of the material characteristics, which
>shows that at 2m, ï¿½' has fallen to 10% or so of ï¿½i, and ï¿½'' has risen,
>so an inductor will be more resistive than inductive.
>
>But, does that make it a poor TLT? Not at all, it has very high common
>mode or choking impedance (a critical performance parameter that is
>rarely reported for commercial baluns).
>
>Would such a balun wound on a powdered iron core work better? Probably
>not. I say probably because I have been unable to find manufacturer's
>loss data for powdered iron materials above about 5MHz. The probability
>is that a powdered iron core would yeild a balun with a choking
>impedance that is lower and more inductive than resistive and may likely
>be *more* lossy. (I have a prospective project to measure a couple of
>powdered iron cores at 6m to further explore this, but they will not be
>lab grade measurements.)
>
>The key is in thinking about I^2*R. The lossy ferrite balun has very
>high Z, so very low I, very high R, and the product of I^2*R is
>relatively low. A powdered iron choke will have lower Z, so higher I,
>low R, and the product I^2*R may be quite higher than the ferrite.
>
>Higher choking impedance can reduce loss, even if the higher choking
>impedance is by way of a lower Q inductor. The characteristic is a
>curve, concave down and the trick is to choose a design (whether it is
>powdered iron, air cored, or ferrite cored) for acceptable loss, and
>that often means an operating point that is well on the right hand side
>or the left hand of the curve maximum.
>
>Another facet of ferrite TLTs operated in their lossy region, is that
>they remain useful well above the device self resonance, whereas when
>choking depends on a high Q impedance, it rapidly falls above resonance.
>(Self resonance is ignored in most models of balun performance that I
>have seen.)

>
>Owen

"A Ham's Guide to RFI, Ferrites, Baluns, and Audio Interfacing" is an very good tutorial written by Jim Brown, K9YC, for understanding and fixing RFI problems. Chapter 6 (page 23) Includes an excellent explanation of balun operation and constrution information. A must read for anyone designing and/or building baluns

http://audiosystemsgroup.com/RFI-Ham.pdf

Danny, K6MHE

568. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 16:52:17 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <5pIdl.14260$YU2.13328@nlpi066.nbdc.sbc.com>
Source record: 18092

christofire wrote:
> Magnetic antennas are sometimes considered beneficial for mobile reception
> of medium/lomg-wave signals because they can be made insensitive to electric
> fields, ...

A magnetic antenna was used in all of the California
75m mobile antenna shootouts that I attended. I was
told it was to keep the close-by human bodies from
having an effect on the strength of the received signals.

Which leads me to a question: Most of us OFs have
witnessed the effects of human bodies on analog VHF
TV signals being received using rabbit ears. If we
used "magnetic rabbit ears", would the problem go
away? Is it only the electric field that varies when
an EM signal passes through a non-magnetic medium
like a human body - or a tree?
--
73, Cecil http://www.w5dxp.com

569. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 18:12:48 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <MbudnXTSR5M7-OrUnZ2dnUVZ8szinZ2d@bt.com>
Source record: 18093

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:5pIdl.14260$YU2.13328@nlpi066.nbdc.sbc.com...
> christofire wrote:
>> Magnetic antennas are sometimes considered beneficial for mobile
>> reception of medium/lomg-wave signals because they can be made
>> insensitive to electric fields, ...
>
> A magnetic antenna was used in all of the California
> 75m mobile antenna shootouts that I attended. I was
> told it was to keep the close-by human bodies from
> having an effect on the strength of the received signals.
>
> Which leads me to a question: Most of us OFs have
> witnessed the effects of human bodies on analog VHF
> TV signals being received using rabbit ears. If we
> used "magnetic rabbit ears", would the problem go
> away? Is it only the electric field that varies when
> an EM signal passes through a non-magnetic medium
> like a human body - or a tree?
> --
> 73, Cecil http://www.w5dxp.com

I understand it becomes increasingly difficult to create a purely-magnetic antenna as the frequency rises, and ferrite with the required properties becomes progressively more expensive! Some VHF pagers used ferrite rods, and one or two-turn coils. Screened one-turn loops are used in the short-wave bands, by some amateurs as well as by the military (e.g. British Royal Navy).

Chris

570. Re: 1600 Watt Double Bazooka

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 18:41:09 UTC
From: RF BURNS <rfburns33@hotmail.com>
Message-ID: <gl7q8g$s5e$1@news.mixmin.net>
Source record: 18094

<mopeyzakween@yahoo.com> wrote in message
news:2fc9075e-5125-4a8d-a945-9b8837cb3485@f40g2000pri.googlegroups.com...
On Jan 19, 11:30 am, "KC8QJP" <KC8...@yahoo.com> wrote:
> http://cgi.ebay.com/1600-Watt-Double-Bazooka-dipole-CB-base-radio-ant...

> A measure recently taken that will have repercussions that will
> indicate exactly how severely your actions have impacted upon fellow
> keyclowns.

> This measure was taken in your honor. You'll be hearing about it, but
> not from us.
>
>
http://www.google.com/search?hl=en&q=KC8QJP&btnG=Google+Search&aq=f&oq=

UH OH KC8QJP IS IN EVEN MORE TROUBLE????
CRISCO KATHY BETTER WISE UP ALREADY!!!!

571. Re: CB Base Antenna Cleaning Service

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 18:41:50 UTC
From: RF BURNS <rfburns33@hotmail.com>
Message-ID: <gl7q9n$s7m$1@news.mixmin.net>
Source record: 18095

<mopeyzakween@yahoo.com> wrote in message
news:22279cd2-d068-4536-afb2-d82737603785@s9g2000prg.googlegroups.com...
On Jan 19, 11:35 am, "KC8QJP" <KC8...@yahoo.com> wrote:
> http://cgi.ebay.com/CB-Base-Antenna-Cleaning-Service_W0QQitemZ1302820...

> A measure recently taken that will have repercussions that will
> indicate exactly how severely your actions have impacted upon fellow
> keyclowns.

> This measure was taken in your honor. You'll be hearing about it, but
> not from us.
>
>
http://www.google.com/search?hl=en&q=KC8QJP&btnG=Google+Search&aq=f&oq=

UH OH KC8QJP IS IN EVEN MORE TROUBLE????
CRISCO KATHY BETTER WISE UP ALREADY!!!!

572. Re: KC8QJP and N8WWM Glory Hole Party - KC8QJP will be offering discount tax consulting through the gloryhole while N8WWM is on his knees

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 19:00:37 UTC
From: RF BURNS <rfburns33@hotmail.com>
Message-ID: <gl7rcv$v1h$1@news.mixmin.net>
Source record: 18096
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave

```
"zoltan" <zoltan@zoltan.com> wrote in message
news:6jgVk.11173$qh4.10597@newsfe04.iad...
>
> "n8wwm mrbindwell (fatboy)" <dougay@nospam.com> wrote in message
> news:gcgpfa$ct7$1@news.mixmin.net...
>>
>> "Leland C Scott" <kc8ldo@madisonhts.com> wrote in message
>> news:gc086k$u0v$1@news.tornevall.net...
>>> "n8wwm mrbindwell (fatboy)" wrote:
>>>
>>> http://img254.imageshack.us/my.php?image=dougpetro3yk1.jpg
>>>
>>>> Pick up some crisco on your way over tonight, KC8QJP needs a good
>>>> slathering on her hind quarters.
>>>>
>>>> She's also getting ready to start her tax return posts again like she
>>>> does every year. You remember those..
>>>>
>>>> http://tinyurl.com/46teqq
>>>>
>>>> She says she wants to add some pics of her and me to them this year.
>>>>
>>>>
>>>>
>>> Cool!
>>>
>> they're having it over here, queerboy.
>>
>> Lance & Lisa Adair
>> 10431 Jackman Rd
>> Temperance, MI 48182-9629
>> (734) 854-2426
>>
>>
> n8wwm is a convicted criminal
>
>
N8WWM is a shut in loser.
```

573. Antenna System VSWR/Return Loss Calculation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 19:07:07 UTC
From: zaifengwang@gmail.com
Message-ID: <777f0d99-db67-4f89-ad5c-7b3ae9b271b8@l42g2000yqe.googlegroups.com>
Source record: 18097

I have a question about how to calculate VSWR/ReturnLoss of a hybrid antenna/feed line sysem which include bottom jumper, pressure window, wave guide, upper jumper and antenna? I list the parameters of all the components as bellow for an actual instance:
VSWR InsertionLoss
Antenna 1.06
Antenna Radome 1.01 0.4
Top Jumper 1.03 0.09
Waveguide 1.06 2.36
Pressure Window 1.01
Bottom Jumper 1.03 0.09

Could somebody help me get the ReturnLoss/VSWR at the end of Bottom Jumper for the entire system? Thanks.

574. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 20:00:11 UTC
From: kb9rqz@yahoooo.com
Message-ID: <939dn41d9bjto66h7ah0ocotv1tsum536j@4ax.com>
Source record: 18098
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

575. Re: Antenna System VSWR/Return Loss Calculation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 20:25:27 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <40e7b65f-89ae-4308-8d28-4db53fee9477@q30g2000prq.googlegroups.com>
Source record: 18099

On Jan 21, 11:07 am, zaifengw...@gmail.com wrote:
> I have a question about how to calculate VSWR/ReturnLoss of a hybrid
> antenna/feed line sysem which include bottom jumper, pressure window,
> wave guide, upper jumper and antenna? I list the parameters of all the
> components as bellow for an actual instance:
>   VSWR   InsertionLoss
> Antenna   1.06
> Antenna Radome   1.01   0.4
> Top Jumper   1.03   0.09
> Waveguide   1.06   2.36
> Pressure Window   1.01
> Bottom Jumper   1.03   0.09
>
> Could somebody help me get the ReturnLoss/VSWR at the end of Bottom
> Jumper for the entire system? Thanks.

The problem is that you need more information than you have here.
Let's reduce this to the case of just two components, a load that
shows a 1.10:1 VSWR relative to the system reference resistance
(commonly 50 ohms), and a transmission line that shows a 1.10:1 VSWR
at the "input" end when terminated with the system load resistance at
the other end. But the 1.10:1 can represent either of two
resistances, or any of an infinite set of reactance + resistance that
represent a constant magnitude but arbitrary phase angle reflection
coefficient.

For example, with a system reference resistance of 50 ohms, the 1.10:1
SWR load might be 55 ohms. And the transmission line might be 90
electrical degrees of 52.45 ohm line (well within tolerance for RG-8
type 50 ohm line); it would show 1.10:1 SWR with a 50 ohm load. But
if you put the 55 ohm load at the end of that line, you'd measure
1.00:1 SWR at the input end of the line. On the other hand, the line
could just as well have been 90 electrical degrees of 47.58 ohm line,
which would also show a 1.10:1 SWR with a 50 ohm load at the far end;
but if you put your 55 ohm load on that line, you'd see a 1.21:1 SWR
at the input end of the line. In this example, I've just used things
that evaluate to pure resistances; in practice, they could also
include reactance.

So in summary, without more information about each component, you
can't arrive at an unambiguous answer to your question. You really
should characterize each one-port in the system with its S11, and each
two-port with its full S-matrix; then you have enough information,
ASSUMING no other coupling than at the ports you used to characterize
each piece. But even that's not always the case--and commonly isn't

the case for antenna systems.

Cheers,
Tom

576. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 20:59:47 UTC
From: nm5k@wt.net
Message-ID: <1effceec-0abb-4418-bd6e-e759707983a7@r15g2000prd.googlegroups.com>
Source record: 18100

On Jan 21, 12:12 pm, "christofire" <christof...@btinternet.com> wrote:

>
> I understand it becomes increasingly difficult to create a purely-magnetic
> antenna as the frequency rises, and ferrite with the required properties
> becomes progressively more expensive! Some VHF pagers used ferrite rods,
> and one or two-turn coils. Screened one-turn loops are used in the
> short-wave bands, by some amateurs as well as by the military (e.g. British
> Royal Navy).
>
> Chris

The way I look at it, there is no such thing as a "magnetic" antenna.
As an example, some call shielded single turn loops "magnetic"
antennas. They claim special properties such as lower noise reception.
But this is not the case. They receive the same s/n ratio as any other
single turn loop.
The only advantage the shield provides is inherently good balance.
Good balance improves the depth of the nulls.
But you can construct plain wire single turn loops to have just as
good balance if you use good construction.
I've side by side compared the two, and came to the conclusion
most of the theories about shielded or so called magnetic loops
to basically be a myth.

577. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 21:11:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <acMdl.2611$%54.1214@nlpi070.nbdc.sbc.com>
Source record: 18001

nm5k@wt.net wrote:
> The way I look at it, there is no such thing as a "magnetic" antenna.

Given that a transmitting dipole and a receiving dipole
transfer maximum signal when oriented in the same plane,
how does one explain a ferrite loop antenna receiving
maximum signal in a plane orthogonal to the transmitting
dipole?
--
73, Cecil http://www.w5dxp.com

578. FS: AT-271 Military Collabsible Antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 21:15:32 UTC
From: Norm VE3CZI <ve3czi@arrl.net>
Message-ID: <YfMdl.188$gf.165@read1.cgocable.net>
Source record: 18002
Cross-posted to: rec.radio.amateur.antenna,rec.radio.swap

Have available the AT-271 Military Collabsible Antenna.... $30 USD Plus Shipping

This portable antenna can be used for the top section of a Vertical Antenna OR Horizontal elements for an Antenna System such as the Buddipole tm ..... A Great QRP / Portable Antenna weighs only 400 Grams [14 Oz] and measures 104" extended yet only 14" long when folded.
The construction is the same as is used for sectional fishing poles. Each of the 8 hollow tubular metal sections has a plug one one end and a socket on the other end. All the sections are connected by a string made of either a cloth or metal cord. At the bottom of the base element there's a spring inside the tube to tension the cord. Some units may use an elastic shock-cord material. This way all the elements are kept in order when they are disconnected from each other and are held together when assembled into a 104" [8.6 Ft] long antenna. When the elements are folded or disassembled the package is only 14 inches long.
The base has a male 3/8-24 thread which is the same as is used on most Ham Radio and CB antennas. Some sort of spring base could be used when this antenna is used because the hollow antenna elements will "fold" if too much force is applied to them.
These units are in Like New Condition.. Sold AS-IS but will not be DOA.
Have access to more...ASK!

Pictures on www.rodemi.com

Thanks for looking....Norm VE3CZI

579. Re: Antenna System VSWR/Return Loss Calculation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 21:18:14 UTC
From: dave <dave@dave.dave>
Message-ID: <49779116$0$31158$bd467cd0@news.dslextreme.com>
Source record: 18003

zaifengwang@gmail.com wrote:
> I have a question about how to calculate VSWR/ReturnLoss of a hybrid
> antenna/feed line sysem which include bottom jumper, pressure window,
> wave guide, upper jumper and antenna? I list the parameters of all the
> components as bellow for an actual instance:
> VSWR InsertionLoss
> Antenna 1.06
> Antenna Radome 1.01 0.4
> Top Jumper 1.03 0.09
> Waveguide 1.06 2.36
> Pressure Window 1.01
> Bottom Jumper 1.03 0.09
>
> Could somebody help me get the ReturnLoss/VSWR at the end of Bottom
> Jumper for the entire system? Thanks.

http://www.microwaves101.com/encyclopedia/calvswr.cfm

580. Re: Antenna System VSWR/Return Loss Calculation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-21 23:31:49 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <FfOdl.6664$Db2.868@edtnps83>
Source record: 18004

<zaifengwang@gmail.com> wrote in message
news:777f0d99-db67-4f89-ad5c-7b3ae9b271b8@l42g2000yqe.googlegroups.com...
>I have a question about how to calculate VSWR/ReturnLoss of a hybrid
> antenna/feed line sysem which include bottom jumper, pressure window,
> wave guide, upper jumper and antenna? I list the parameters of all the
> components as bellow for an actual instance:
> VSWR InsertionLoss
> Antenna 1.06
> Antenna Radome 1.01 0.4
> Top Jumper 1.03 0.09
> Waveguide 1.06 2.36
> Pressure Window 1.01
> Bottom Jumper 1.03 0.09
>
> Could somebody help me get the ReturnLoss/VSWR at the end of Bottom
> Jumper for the entire system? Thanks.

You need to fully characterize each component with 2 port S parameters.
You can then determine the cascaded parameters by the use of T
parameters. You need a vector network analyzer to acomplish
this. The procedure is described in HP's application note AN-154
"S parameter Design", available at:
http://www.hpmemory.org/ressources/resrc_an_01.htm#

Regards,

Frank

581. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 00:52:50 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <f7qdnW-826r2XurUnZ2dnUVZ8qjinZ2d@bt.com>
Source record: 18005

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:acMdl.2611$%54.1214@nlpi070.nbdc.sbc.com...
> nm5k@wt.net wrote:
>> The way I look at it, there is no such thing as a "magnetic" antenna.
>
> Given that a transmitting dipole and a receiving dipole
> transfer maximum signal when oriented in the same plane,
> how does one explain a ferrite loop antenna receiving
> maximum signal in a plane orthogonal to the transmitting
> dipole?
> --
> 73, Cecil http://www.w5dxp.com

Ampere's circuital law and the well-known 'right-hand rule'.

Chris

582. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 01:06:28 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <VsOdnQdM6P8HW-rUnZ2dnUVZ8h-dnZ2d@bt.com>
Source record: 18006

<nm5k@wt.net> wrote in message
news:1effceec-0abb-4418-bd6e-e759707983a7@r15g2000prd.googlegroups.com...
On Jan 21, 12:12 pm, "christofire" <christof...@btinternet.com> wrote:

>
> I understand it becomes increasingly difficult to create a purely-magnetic
> antenna as the frequency rises, and ferrite with the required properties
> becomes progressively more expensive! Some VHF pagers used ferrite rods,
> and one or two-turn coils. Screened one-turn loops are used in the
> short-wave bands, by some amateurs as well as by the military (e.g.
> British
> Royal Navy).
>
> Chris

The way I look at it, there is no such thing as a "magnetic" antenna.
As an example, some call shielded single turn loops "magnetic"
antennas. They claim special properties such as lower noise reception.
But this is not the case. They receive the same s/n ratio as any other
single turn loop.
The only advantage the shield provides is inherently good balance.
Good balance improves the depth of the nulls.
But you can construct plain wire single turn loops to have just as
good balance if you use good construction.
I've side by side compared the two, and came to the conclusion
most of the theories about shielded or so called magnetic loops
to basically be a myth.

I believe the issue is that if an open loop isn't perfectly balanced then it
will respond to an electric field, acting as a monopole. Then, when the
loop is oriented so the magnetic field of a signal should be in one of its
nulls, the cancellation may be incomplete because of sensivity to the
electric field component of that signal. Screening the loop overcomes this
effect so it could be claimed that screening improves the balance, although
this isn't what's really happening.

With a pair of screened loops and a whip it is possible to receive
separately the magnetic and electric fields associated with a radio signal
and to record their strengths at different locations. This can reveal
significant differences on account of building and electrical clutter, but
only if the loop is adequately screened. No myth!

Chris

583. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 01:25:00 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5bifn4htmfso8vdipd0escleiuafejnkg5@4ax.com>
Source record: 18007

On Thu, 22 Jan 2009 01:06:28 -0000, "christofire"
<christofire@btinternet.com> wrote:

>With a pair of screened loops and a whip it is possible to receive
>separately the magnetic and electric fields associated with a radio signal
>and to record their strengths at different locations. This can reveal
>significant differences on account of building and electrical clutter, but
>only if the loop is adequately screened. No myth!

What you describe is a direction finding system with a general antenna
that can be switched in to sniff for a transmitter to take a bearing
on. A commonplace design for this application. The loops are no more
screened than any other, and careful observation of their construction
details would reveal the necessary break in the screen which serves
for balance only. Any claims to magnetic field separation are, as
Mark well put it, a myth.

The only way you could achieve this separation is by traveling at the
speed of light with your antenna in that magnetic field, at its 90
degree peak to the electric field null. This reduces the topic from
the status of myth to that of absurd.

73's
Richard Clark, KB7QHC

584. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 01:46:36 UTC
From: nm5k@wt.net
Message-ID: <491758b6-2e1c-414a-9a66-eda7fd89303d@t26g2000prh.googlegroups.com>
Source record: 18008

On Jan 21, 3:11 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> n...@wt.net wrote:
> > The way I look at it, there is no such thing as a "magnetic" antenna.
>
> Given that a transmitting dipole and a receiving dipole
> transfer maximum signal when oriented in the same plane,
> how does one explain a ferrite loop antenna receiving
> maximum signal in a plane orthogonal to the transmitting
> dipole?
> --
> 73, Cecil http://www.w5dxp.com

I'm not sure without looking into it, but I notice this with
both shielded, and unshielded loops.
As an example, my 44 inch per side 5 turn diamond
loop prefers to be fed horizontally vs vertically
when receiving MW stations which use a vertical
transmit antenna.
IE: I feed it at the middle lowest corner.
If I feed it at a side corner, which would be vertically fed,
I seem to remember it not working near as well.
Do you consider an open small loop "unshielded" a
"magnetic" antenna? Some do, but I tend not to.
They act the same as the shielded loops that many
seem to call "magnetic" antennas.
The ability to respond to mostly the magnetic field
vs the electric field only pertains to the very near field
within about 1/10 wavelength.
Within 1 wavelength they often respond more to the
electrical wave. In the far field they should respond
to both fields the same as any other antenna.
Or this is my current understanding anyway.. :/
So using any type of "magnetic" antenna for the OP's
purpose would seem to be a waste of time unless
they are trying to reduce noise pickup that is within
1/10 of a wavelength away.
I know myself that these small loops are still quite
capable of picking up local noise, just like most
any other antenna. The only advantage are the sharp
nulls which you use to get rid of said noise.
If your mobile tests were within 1/10 of a wave,
maybe it makes more sense. But I'm not sure if
I can see any advantage to trying to receive a far
field signal vs any other antenna unless the nulls

are useful.

585. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 02:39:33 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <f0bf385e-6257-4b89-94a4-a056135be795@w24g2000prd.googlegroups.com>
Source record: 18009

On Jan 13, 2:44 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:79256191-52fb-4214-b16a-fe49ffac8205@v18g2000pro.googlegroups.com...
>
>
>
> > What diametric ratio must a fractional wave length radiator be to
> > allow contrary current flow thru it's center. ?
> > Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
> > 0.00001,...?
> > Regards
> > Art
>
> infinite

David
Just for the record, skin depth is proportional to frequency
Thus for very hight frequency the skin depth is exceedingly small
This tells us that the effect of eddy current with respect to the
diameter
is NOT infinite but limit dependent on the applied frequency.
I am not extending this thread, but on rereading it is obvious to me
that
there is a boundary within which a current could possibly travel. But
since the current is zero
at the end I am more inclined to think that applied current is
balanced at the source so that zero current is inevitable at the end
of the radiator, How this is done appears to be something like
a pump action which with laminar flow creates cavitation resistances
in line with Bernoulis theorems.IE velocity changes that are
dependent on distributed load losses of the radiator
The end of this thread !
Art
Art

586. Re: The Strange True Story of a Radio Station's Transmitter in NewY...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 02:58:00 UTC
From: Bob Bob <bob3bob3@suddenlink.net>
Message-ID: <qu3l46-heg.ln1@p400bob.personal.cox.net>
Source record: 18011

Hi Richard

I could no doubt look this up but thought I would be lazy!

What is the link budget for deep space probes like? What is the RX level
on earth etc etc? I had always assumed a low datarate and nitrogen
cooled front ends on the ground but I dont actually know what the
numbers are...

I kind of already know the numbers for AMSAT and EME work.

If you dont know off the top of your head, I can look it up...

Cheers Bob VK2YQA

Richard Harrison wrote:
> DLoyd wrote:
> "Due to the "Inverse Square Law", it was impractical and always will
> be."
>
> How much power do you need? Does radio reach the stars? Does light from
> the stars reach us by "radio" type waves?
>
> Because the power of a radio wave declines due to distance by only 6 db
> each time distance doubles, the 6 db distance can be almost infinite and
> the power useable dependent on the power required and and the power of
> the source.
>
> Best regards, Richard Harrison, KB5WZI
>

587. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 02:59:20 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <h2ofn4l8n99ukd30r7rb9il5ntn1oupao5@4ax.com>
Source record: 18010

On Wed, 21 Jan 2009 17:46:36 -0800 (PST), nm5k@wt.net wrote:

>IE: I feed it at the middle lowest corner.
>If I feed it at a side corner, which would be vertically fed,
>I seem to remember it not working near as well.

Hi Mark,

That would seem to indicate you seriously unbalanced the antenna by
the side feed which is geometrically unbalanced. For instance, the
line doesn't lead off horizontally for any great distance, does it?

Of course, this all hinges on what you mean by not "near as well."

73's
Richard Clark, KB7QHC

588. Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 03:57:02 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <i8Sdl.1341$aI1.599@nwrddc01.gnilink.net>
Source record: 18012

If i were to construct a square receiving loop antenna for the am bcb that is 24" or more per side..... how important would the guage of the wire be & also solid versus stranded wire? Antenna would be used indoors.

589. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 04:17:04 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <4rSdl.1208$Aw2.506@nwrddc02.gnilink.net>
Source record: 18013

"Spin" <noemail@alone.invalid> wrote in message
news:i8Sdl.1341$aI1.599@nwrddc01.gnilink.net...
> If i were to construct a square receiving loop antenna for the am bcb that
> is 24" or more per side..... how important would the guage of the wire be
> & also solid versus stranded wire? Antenna would be used indoors.

Hi Spin
Have you seen this site?
http://www.mindspring.com/~loop_antenna/

Jerry KD6JDJ

590. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 10:19:14 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <a8SdnfwB8JG41eXUnZ2dnUVZ8oKdnZ2d@bt.com>
Source record: 18014

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:5bifn4htmfso8vdipd0escleiuafejnkg5@4ax.com...
> On Thu, 22 Jan 2009 01:06:28 -0000, "christofire"
> <christofire@btinternet.com> wrote:
>
>>With a pair of screened loops and a whip it is possible to receive
>>separately the magnetic and electric fields associated with a radio signal
>>and to record their strengths at different locations. This can reveal
>>significant differences on account of building and electrical clutter, but
>>only if the loop is adequately screened. No myth!
>
> What you describe is a direction finding system with a general antenna
> that can be switched in to sniff for a transmitter to take a bearing
> on. A commonplace design for this application.

No, the loops were commutated in order to provide an omni-direction pattern
in the horizontal plane and the receiver was switched between the loops and
whip to measure H and E. This was used to establish for medium and
long-wave broadcasting stations (in the UK) the field strength and
receivability on ferrite-rod antennas.

The loops are no more
> screened than any other, and careful observation of their construction
> details would reveal the necessary break in the screen which serves
> for balance only.

The loop has to be split at some point to prevent it acting as a shorted
turn - the splits were at the top in this case.

Any claims to magnetic field separation are, as
> Mark well put it, a myth.
>
> The only way you could achieve this separation is by traveling at the
> speed of light with your antenna in that magnetic field, at its 90
> degree peak to the electric field null.

In a normal single, plane-polarised, far-field TEM radio wave the peaks of E
and H occur at the same places and the same times, and the nulls of E and H
occur at the same places and the same times. The peaks of both correspond
to the peaks of current in the transmitting antenna by which they were
generated, and the nulls of both correspond to the zero-crossings of the
current. If you believe something is radiated in the far field when the
current in the antenna is zero I would be intrigued to hear an explanation.

This reduces the topic from
> the status of myth to that of absurd.

You're entitled to your opinion.

Chris

>
> 73's
> Richard Clark, KB7QHC

591. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 12:32:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <rCZdl.11432$D32.941@flpi146.ffdc.sbc.com>
Source record: 18015

nm5k@wt.net wrote:
> On Jan 21, 3:11 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>> Given that a transmitting dipole and a receiving dipole
>> transfer maximum signal when oriented in the same plane,
>> how does one explain a ferrite loop antenna receiving
>> maximum signal in a plane orthogonal to the transmitting
>> dipole?
>
> I'm not sure without looking into it, but I notice this with
> both shielded, and unshielded loops.

I'm not talking about coaxial loops. I'm talking about
coils of wire wrapped around a ferrite rod typical of
AM radios. Seems pretty obvious it is responding to the
magnetic field when it needs to be at right angles to
the transmitting monopole (or dipole).
--
73, Cecil http://www.w5dxp.com

592. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 15:01:56 UTC
From: dave <dave@dave.dave>
Message-ID: <ET%dl.59874$Nv1.52335@newsfe03.iad>
Source record: 18016

Spin wrote:
> If i were to construct a square receiving loop antenna for the am bcb that
> is 24" or more per side..... how important would the guage of the wire be &
> also solid versus stranded wire? Antenna would be used indoors.
>
>
Any wire you can comfortably work with is fine.

593. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 18:34:40 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <8cdhn4p55gag2isrte3j6il6mldjssn7dd@4ax.com>
Source record: 18017

On Thu, 22 Jan 2009 10:19:14 -0000, "christofire"
<christofire@btinternet.com> wrote:

>
>"Richard Clark" <kb7qhc@comcast.net> wrote in message
>news:5bifn4htmfso8vdipd0escleiuafejnkg5@4ax.com...
>> On Thu, 22 Jan 2009 01:06:28 -0000, "christofire"
>> <christofire@btinternet.com> wrote:
>>
>>>With a pair of screened loops and a whip it is possible to receive
>>>separately the magnetic and electric fields associated with a radio signal
>>>and to record their strengths at different locations. This can reveal
>>>significant differences on account of building and electrical clutter, but
>>>only if the loop is adequately screened. No myth!
>>
>> What you describe is a direction finding system with a general antenna
>> that can be switched in to sniff for a transmitter to take a bearing
>> on. A commonplace design for this application.
>
>No, the loops were commutated in order to provide an omni-direction pattern
>in the horizontal plane and the receiver was switched between the loops and
>whip to measure H and E. This was used to establish for medium and
>long-wave broadcasting stations (in the UK) the field strength and
>receivability on ferrite-rod antennas.

The description you offer in rebuttal says nothing of field
separation. The commutation discussion imparts nothing to the
physical relationship of the wave. The remainder of the description
doesn't actually describe any physical/geometric relationship to the
wave at all. Physics in the UK are not different from the rest of the
world.

>> The loops are no more
>> screened than any other, and careful observation of their construction
>> details would reveal the necessary break in the screen which serves
>> for balance only.
>
>The loop has to be split at some point to prevent it acting as a shorted
>turn - the splits were at the top in this case.

This, too, is merely conventional design then.

You haven't described anything out of the ordinary, and the ordinary
(spanning centuries) has not shown the attributes you describe as
field separation.

>You're entitled to your opinion.

As are you, but this isn't rec.radio.amateur.antenna.polls and you haven't gone beyond unsubstantiated claims.

If the necessity of proof for your claims were set aside, Nature still demands that noise and signal still arrive by the same mechanism and any invention that separates fields must apply them equally to both sources - returning us to the conventional observation that S/N hasn't changed one bit. The net result of this is that you have provided unsubstantiated claims for an useless invention. Any value it may have comes by conventional means.

73's
Richard Clark, KB7QHC

594. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 19:18:03 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <glagt8$om8$1@news.service.uci.edu>
Source record: 18018

```
Richard Clark wrote:
> On Thu, 22 Jan 2009 10:19:14 -0000, "christofire"
> <christofire@btinternet.com> wrote:
>
>> "Richard Clark" <kb7qhc@comcast.net> wrote in message
>> news:5bifn4htmfso8vdipd0escleiuafejnkg5@4ax.com...
>>> On Thu, 22 Jan 2009 01:06:28 -0000, "christofire"
>>> <christofire@btinternet.com> wrote:
>>>
>>>> With a pair of screened loops and a whip it is possible to receive
>>>> separately the magnetic and electric fields associated with a radio signal
>>>> and to record their strengths at different locations. This can reveal
>>>> significant differences on account of building and electrical clutter, but
>>>> only if the loop is adequately screened. No myth!
>>> What you describe is a direction finding system with a general antenna
>>> that can be switched in to sniff for a transmitter to take a bearing
>>> on. A commonplace design for this application.
>> No, the loops were commutated in order to provide an omni-direction pattern
>> in the horizontal plane and the receiver was switched between the loops and
>> whip to measure H and E. This was used to establish for medium and
>> long-wave broadcasting stations (in the UK) the field strength and
>> receivability on ferrite-rod antennas.
>
> The description you offer in rebuttal says nothing of field
> separation. The commutation discussion imparts nothing to the
> physical relationship of the wave. The remainder of the description
> doesn't actually describe any physical/geometric relationship to the
> wave at all. Physics in the UK are not different from the rest of the
> world.
>
>>> The loops are no more
>>> screened than any other, and careful observation of their construction
>>> details would reveal the necessary break in the screen which serves
>>> for balance only.
>> The loop has to be split at some point to prevent it acting as a shorted
>> turn - the splits were at the top in this case.
>
> This, too, is merely conventional design then.
>
> You haven't described anything out of the ordinary, and the ordinary
> (spanning centuries) has not shown the attributes you describe as
> field separation.
>
>> You're entitled to your opinion.
```

>
> As are you, but this isn't rec.radio.amateur.antenna.polls and you
> haven't gone beyond unsubstantiated claims.
>
> If the necessity of proof for your claims were set aside, Nature still
> demands that noise and signal still arrive by the same mechanism and
> any invention that separates fields must apply them equally to both
> sources - returning us to the conventional observation that S/N hasn't
> changed one bit. The net result of this is that you have provided
> unsubstantiated claims for an useless invention. Any value it may
> have comes by conventional means.
>
> 73's
> Richard Clark, KB7QHC

Hi Richard,

Are your powers of perception waning by any chance? Your correspondent deserves more credit than you're allowing him. As far as I've seen in this thread, you're the only one talking about 'field delamination' or such things. As you said, what he is talking about is purely conventional. And clever. That you apparently don't completely understand what he is saying is no fault of his.

73, ac6xg

595. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 21:12:04 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <0inhn4djkb3s55fba7g33mgmhbmvcofnob@4ax.com>
Source record: 18019

On Thu, 22 Jan 2009 11:18:03 -0800, Jim Kelley <jwkelley@uci.edu>
wrote:

>Are your powers of perception waning by any chance? Your correspondent
>deserves more credit than you're allowing him. As far as I've seen in
>this thread, you're the only one talking about 'field delamination' or
>such things.

Perhaps you powers of perception did not perceive this:
>On Thu, 22 Jan 2009 01:06:28 -0000, "christofire" <christofire@btinternet.com> wrote:
>
>>With a pair of screened loops and a whip it is possible to receive
>>separately the magnetic and electric fields associated with a radio signal

Returning to your complaint:
>That you apparently don't completely
>understand what he is saying is no fault of his.

As christofire's quote above is his and not mine, and neither you nor
he has explained it, my comprehension is not tested beyond what his
unconventional statement has offered. If he cannot explain it, then
the fault is not with me. Challenging blank assertions is not unusual
here.

Perhaps you mis-perceived:
>On Thu, 22 Jan 2009 01:06:28 -0000, "christofire" <christofire@btinternet.com> wrote:
>
>>The way I look at it, there is no such thing as a "magnetic" antenna.
because, in fact due to christofire's poor quotation practice, this
statement is Mark's and one that I fully concur with and stated so.

73's
Richard Clark, KB7QHC

596. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 21:43:19 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <glapdj$c8$1@news.service.uci.edu>
Source record: 18020

Richard Clark wrote:
> On Thu, 22 Jan 2009 11:18:03 -0800, Jim Kelley <jwkelley@uci.edu>
> wrote:
>
>> Are your powers of perception waning by any chance? Your correspondent
>> deserves more credit than you're allowing him. As far as I've seen in
>> this thread, you're the only one talking about 'field delamination' or
>> such things.
>
> Perhaps you powers of perception did not perceive this:
>> On Thu, 22 Jan 2009 01:06:28 -0000, "christofire" <christofire@btinternet.com> wrote:
>>
>>> With a pair of screened loops and a whip it is possible to receive
>>> separately the magnetic and electric fields associated with a radio signal

I perceive that the quote says nothing about "field separation" -
whatever that is. Since it's a term that you employed, perhaps you can
explain what you mean by it and clear up the whole thing.

Thanks,

ac6xg

597. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-22 23:08:44 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <euuhn4t8jch9km9tvkjbvscrd1jdfm7j2k@4ax.com>
Source record: 18021

On Thu, 22 Jan 2009 13:43:19 -0800, Jim Kelley <jwkelley@uci.edu>
wrote:

>>>> separately the magnetic and electric fields associated with a radio signal
>
>I perceive that the quote says nothing about "field separation" -

Now that is getting "prï¿½cis."

73's
Richard Clark, KB7QHC

598. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 00:02:55 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <glb1jb$50p$1@news.service.uci.edu>
Source record: 18022

Richard Clark wrote:
> On Thu, 22 Jan 2009 13:43:19 -0800, Jim Kelley <jwkelley@uci.edu>
> wrote:
>
>>>>> separately the magnetic and electric fields associated with a radio signal
>> I perceive that the quote says nothing about "field separation" -
>
> Now that is getting "prï¿½cis."
>
> 73's
> Richard Clark, KB7QHC

c'est exact

Do you claim to have separated voltage from current whenever you measure
one or both?

ac6xg

599. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 01:59:43 UTC
From: nm5k@wt.net
Message-ID: <55b28b04-99b1-439b-9683-65cad3eac4d4@q30g2000prq.googlegroups.com>
Source record: 18023

On Jan 22, 6:32 am, Cecil Moore <nos...@w5dxp.com> wrote:

>
> I'm not talking about coaxial loops. I'm talking about
> coils of wire wrapped around a ferrite rod typical of
> AM radios. Seems pretty obvious it is responding to the
> magnetic field when it needs to be at right angles to
> the transmitting monopole (or dipole).
> --
> 73, Cecil http://www.w5dxp.com

I don't see how you could be receiving the magnetic
field if say you are 150 miles away from the station.
I looked around on the web for other opinions, and
ran across a page from W8JI.
http://www.w8ji.com/magnetic_receiving_loops.htm
I tend to agree with him.
Here is one quote that seems to fairly well explain
the position.

From W8JI web page..
"Acceleration of charges causes a very unique force
on other charges in the Universe. We call this effect
electromagnetic radiation. It is a totally different effect,
and it is independent of induction fields. This is the only
effect or force that works to move charges at a very
large distance, and it cannot be created by mixing
induction fields. "

Anyway, that's about as good an explanation as I
can find as to why I don't believe in "magnetic" antennas,
except for the properties at very close distances.
At any greater distance beyond about 1/10 wavelength,
it all goes out the window.
That's the way I see it on January 22, 2009 at 7:55 in
the PM. :/

600. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 02:05:03 UTC
From: nm5k@wt.net
Message-ID: <cf187d5c-8f90-4834-a16d-1c1f33ea048d@k36g2000pri.googlegroups.com>
Source record: 18024

On Jan 21, 8:59 pm, Richard Clark <kb7...@comcast.net> wrote:

>
> Hi Mark,
>
> That would seem to indicate you seriously unbalanced the antenna by
> the side feed which is geometrically unbalanced. For instance, the
> line doesn't lead off horizontally for any great distance, does it?
>
> Of course, this all hinges on what you mean by not "near as well."
>
Not sure.. I don't the the position of the feed line should
have been a problem, but it's been so long since I tried it,
I forgot what happened. I just seem to remember trying it
one time, and stuck with the bottom feed.
I'll have to try it again later. I could use my circular 16 inch
dia loop. It's small enough I can easily hold it and shift the
polarization just by rotating it.

601. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 02:15:08 UTC
From: nm5k@wt.net
Message-ID: <9df9210f-a2aa-4092-86a6-2f0d91adfe5e@f40g2000pri.googlegroups.com>
Source record: 18025

On Jan 21, 9:57 pm, "Spin" <noem...@alone.invalid> wrote:
> If i were to construct a square receiving loop antenna for the am bcb that
> is 24" or more per side..... how important would the guage of the wire be &
> also solid versus stranded wire? Antenna would be used indoors.

Doesn't matter much. Maybe a slight difference in Q with thin
vs fat wire, but overall no big deal.
I've got loops made from thin copper motor wire, and also
one from insulated #14 gauge stranded house wire. They all work.
From a mechanical standpoint I think a diamond is easier
to deal with..
Here is one of my favorite designs for a cheap simple PVC
loop. You can slap one together pretty fast. Kind of like PVC
tinker toys.. :/ You do have to drill the holes, but that's easy.
http://home.comcast.net/~nm5k/loop5.jpg

602. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 02:26:48 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <6uydnXt6Mdt2t-TUnZ2dneKdnZydnZ2d@bt.com>
Source record: 18026

"Jim Kelley" <jwkelley@uci.edu> wrote in message
news:glb1jb$50p$1@news.service.uci.edu...
> Richard Clark wrote:
>> On Thu, 22 Jan 2009 13:43:19 -0800, Jim Kelley <jwkelley@uci.edu>
>> wrote:
>>
>>>>>>> separately the magnetic and electric fields associated with a radio
>>>>>>> signal
>>>> I perceive that the quote says nothing about "field separation" -
>>
>> Now that is getting "pr&#65533;cis."
>>
>> 73's
>> Richard Clark, KB7QHC
>
> c'est exact
>
> Do you claim to have separated voltage from current whenever you measure
> one or both?
>
> ac6xg

Isn't the point that an electromagnetic wave can be considered in terms of the E or H fields associated with it, or indeed both at the same time? If any power is extracted from the wave then this will involve E and H, or voltage and current, simultaneously. And when the wave encounters a region of space with effective relative permittivity or permeability different from the free-space values, the ratio of E to H changes; that is, the intrinsic impedance, Zo changes locally. The work I described earlier contributed to the development of propagation prediction methods for medium and long wave transmissions and an example of a region of space that exhibits a particularly inductive effect is a built-up city with many tall buildings.

I'm aware of issues involved in claiming generation of separate E or H fields, as has been described by Kabbary et al in their 'crossed-field antenna', but surely the issues concerning a receiving antenna are different? A very short monopole attached to a high-input-impedance amplifier, for example (i.e. an 'active' antenna), should have very little effect on the local intrinsic impedance, yet it should produce a signal proportional to the magnitude and sign of the local E field, whatever the local H field strength. Equally, a small-diameter well-screened loop should be capable of measuring the local H-field strength without altering the local Zo. In these cases, 'short' and 'small' are relative to the wavelength.

Rohde & Schwarz used to sell an HF diversity receiving antenna system based on an array of small screened loops, the screens of which were applied (separately) as active monopoles. This provided somewhat separate reception of the E and H fields associated with the incoming radio wave and, from what I've heard, it worked - it provided some degree of 'diversity gain'. However, this was an array requiring a sizeable amount of clear land.

Perhaps the difference is that what I described before was for use with broadcast signals (following the topic of the OP), in which case short and small antennas can be used for measurement purposes within areas provided with adequate (or nearly adequate) field strength, whereas in amateur radio applications the tendency would be to use as large an antenna as possible, to maximise the possible range.

Chris

603. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 02:46:44 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <ZYmdnTHLqN4EsuTUnZ2dnUVZ8uadnZ2d@bt.com>
Source record: 18027

<nm5k@wt.net> wrote in message
news:55b28b04-99b1-439b-9683-65cad3eac4d4@q30g2000prq.googlegroups.com...
On Jan 22, 6:32 am, Cecil Moore <nos...@w5dxp.com> wrote:

>
> I'm not talking about coaxial loops. I'm talking about
> coils of wire wrapped around a ferrite rod typical of
> AM radios. Seems pretty obvious it is responding to the
> magnetic field when it needs to be at right angles to
> the transmitting monopole (or dipole).
> --
> 73, Cecil http://www.w5dxp.com

I don't see how you could be receiving the magnetic
field if say you are 150 miles away from the station.
I looked around on the web for other opinions, and
ran across a page from W8JI.
http://www.w8ji.com/magnetic_receiving_loops.htm
I tend to agree with him.
Here is one quote that seems to fairly well explain
the position.

From W8JI web page..
"Acceleration of charges causes a very unique force
on other charges in the Universe. We call this effect
electromagnetic radiation. It is a totally different effect,
and it is independent of induction fields. This is the only
effect or force that works to move charges at a very
large distance, and it cannot be created by mixing
induction fields. "

Anyway, that's about as good an explanation as I
can find as to why I don't believe in "magnetic" antennas,
except for the properties at very close distances.
At any greater distance beyond about 1/10 wavelength,
it all goes out the window.
That's the way I see it on January 22, 2009 at 7:55 in
the PM. :/

Could I suggest taking a look at one of the well regarded text books such as
'Antennas' by J. Kraus. Your local library may be able to get it in for
you. There you'll find it well explained that 'electromagnetic radiation',
a radio wave, has associated with it an electric field and a magnetic field.
Each is measurable and is a manifestation of the radio wave - it's probably
incorrect to say, the other way round, that the radio wave is formed by the
'radiation' E and H fields. Drawing power from a radio wave in order to

operate a radio receiver can be done using either an antenna sensitive to the local E field strength, such as a whip or many types of wire antennas, or using an antenna sensitive to the local H field strength, such as a loop - i.e. a magnetic antenna. It may be argued that either would have some effect on the other field, but this may not be very important in practice.

These radiation fields alternate in time with one another, in sync with the current in the antenna, but the phase of their alternation is (obviously) retarded with distance away from the antenna - because of the limited speed of propagation of a radio wave. They are directed transverse to the direction of propagation and are oriented perpendicularly to one another in that transverse plane.

'Induction' and 'electrostatic' reactive fields are found close to a transmitting antenna, but these decay with the square or cube of the distance and at distances greater than wavelength/2*Pi they are weaker than the radiation field.

I hope this helps a bit.

Chris

604. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 02:46:59 UTC
From: nm5k@wt.net
Message-ID: <5c785e6c-b1ed-4351-bd8e-6b116367118e@p2g2000prf.googlegroups.com>
Source record: 18028

On Jan 22, 8:26 pm, "christofire" <christof...@btinternet.com> wrote:

>
> Perhaps the difference is that what I described before was for use with
> broadcast signals (following the topic of the OP), in which case short and
> small antennas can be used for measurement purposes within areas provided
> with adequate (or nearly adequate) field strength, whereas in amateur radio
> applications the tendency would be to use as large an antenna as possible,
> to maximise the possible range.
>
> Chris

No real difference. The objective is improving the s/n ratio.
With any kind of array the main improvement is going to be
from a directive pattern and the use of nulls. Only if you had
a very close noise source might it be useful to use the properties
of the small loops, etc to reduce reception of the magnetic field.
There is a small increase in overall s/n ratio as you increase the
size of a small loop, but it's not anything earthshaking.
In the city, for all practical purposes my 16 inch round loop
has just about as good a usable s/n ratio as my larger
44 inch per side diamond loop.
You have to get into a low noise environment to really take advantage
of the small benefits of a larger loop.
IE: in the dead of the winter it will be more useful than in the
noisy
summer.
On those low frequencies, it doesn't take much to get to the
saturation point where adding "more" really doesn't do much to
improve the s/n ratio.
As mentioned before, if you are tuned to a dead frequency and
you can hear the atmospheric noise, you are already basically
to the point where adding "more" is not going to help.
At that stage only changing the pattern will improve s/n ratio.
And on MW, it's usually the nulls that are used, vs the gain
in a certain direction.

605. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 02:52:28 UTC
From: nm5k@wt.net
Message-ID: <b320d7d2-17b1-4276-8544-6ce5072f6bc5@q30g2000prq.googlegroups.com>
Source record: 18029

On Jan 22, 8:46 pm, "christofire" <christof...@btinternet.com> wrote:
 Drawing power from a radio wave in order to
> operate a radio receiver can be done using either an antenna sensitive to
> the local E field strength, such as a whip or many types of wire antennas,
> or using an antenna sensitive to the local H field strength, such as a
> loop - i.e. a magnetic antenna. It may be argued that either would have
> some effect on the other field, but this may not be very important in
> practice.

Well, that's my whole point. If the station you are listening to
is 150 miles away, I don't see how the local fields will really
come into play.

606. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 05:01:22 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <d2iin4d2gm8i489cose8q68j4kbk8elc2m@4ax.com>
Source record: 18030

On Fri, 23 Jan 2009 02:26:48 -0000, "christofire"
<christofire@btinternet.com> wrote:

>
>"Jim Kelley" <jwkelley@uci.edu> wrote in message
>news:glb1jb$50p$1@news.service.uci.edu...
>> Richard Clark wrote:
>>> On Thu, 22 Jan 2009 13:43:19 -0800, Jim Kelley <jwkelley@uci.edu>
>>> wrote:
>>>
>>>>>>> separately the magnetic and electric fields associated with a radio
>>>>>>> signal
>>>> I perceive that the quote says nothing about "field separation" -
>>>
>>> Now that is getting "prï¿½cis."
>>>
>>> 73's
>>> Richard Clark, KB7QHC
>>
>> c'est exact
>>
>> Do you claim to have separated voltage from current whenever you measure
>> one or both?
>>
>> ac6xg
>
>
>Isn't the point that an electromagnetic wave can be considered in terms of
>the E or H fields associated with it, or indeed both at the same time? If
>any power is extracted from the wave then this will involve E and H, or
>voltage and current, simultaneously. And when the wave encounters a region
>of space with effective relative permittivity or permeability different from
>the free-space values, the ratio of E to H changes; that is, the intrinsic
>impedance, Zo changes locally. The work I described earlier contributed to
>the development of propagation prediction methods for medium and long wave
>transmissions and an example of a region of space that exhibits a
>particularly inductive effect is a built-up city with many tall buildings.

Well, this removes us from the Byzantine parsing between "separation"
and "separately."

If by the addition of these buildings you propose that characteristic
of "space" has become intrinsically different - I suppose. However,
your having made that observation, what of it?

>I'm aware of issues involved in claiming generation of separate E or H
>fields, as has been described by Kabbary et al in their 'crossed-field
>antenna', but surely the issues concerning a receiving antenna are
>different?

Ah! We return to -separate- fields as if there were some distinction
in their labels that now devolves to the discussion of the cfa. As
the cfa lacks credibility beyond having an invented nomenclature, this
does not elevate the discussion of -separate- fields to any great
distinction.

> A very short monopole attached to a high-input-impedance
>amplifier, for example (i.e. an 'active' antenna), should have very little
>effect on the local intrinsic impedance, yet it should produce a signal
>proportional to the magnitude and sign of the local E field, whatever the
>local H field strength.

However? That adverb generally proceeds from a premise and introduces
a counter argument which is not developed here.

"should have very little effect on the local intrinsic impedance?"
This drops into the dialog without any sense of proportion as it is a
qualification and the rest of this lacks quantification. How much is
the effect, how much is little, and more so, how much is very little?
Without quantifiables your impression of "little" may in fact be quite
large and fully expected.

>Equally, a small-diameter well-screened loop should
>be capable of measuring the local H-field strength without altering the
>local Zo.

Should? You write these as mandates, but using weak verbs. This is
the writing of disappointment about vague expectations. Why not use
the verb "must?" Perhaps because you would then be expected to
provide a quantified value instead.

All measurements disturb what they measure. If you cannot express the
degree, you don't have a measurement, it is a guess.

>In these cases, 'short' and 'small' are relative to the
>wavelength.
>
>Rohde & Schwarz used to sell an HF diversity receiving antenna system based
>on an array of small screened loops, the screens of which were applied
>(separately) as active monopoles. This provided somewhat separate reception
>of the E and H fields associated with the incoming radio wave and, from what
>I've heard, it worked - it provided some degree of 'diversity gain'.
>However, this was an array requiring a sizeable amount of clear land.

This still does not provide evidence of the supposed "separate
reception of the E and H fields." The performance described is rather
more ordinary and requires no elaboration.

>Perhaps the difference is that what I described before was for use with
>broadcast signals (following the topic of the OP), in which case short and
>small antennas can be used for measurement purposes within areas provided
>with adequate (or nearly adequate) field strength, whereas in amateur radio
>applications the tendency would be to use as large an antenna as possible,
>to maximise the possible range.

Well, this last apologia doesn't even hold up under scrutiny standing
by itself, much less supporting anything that came before it.
"the tendency would be to use as large an antenna as possible,
to maximize the possible range." is another qualified statement in
that "as large as possible" spans many interpretations, and simply
stating it much more simply in terms of wavelength would peg down both
the application and the validity of the claim. Is a tenth wavelength
sufficient to obtain the maximum possible range? How about 10
wavelengths?

The difference between the performance of a tenth wavelength vertical
antenna, and the optimally sized (roughly 5/8ths wavelength) is not
dramatic. Now compare the tenth wavelength vertical to its 10
wavelength distant cousin, and drama unfolds profoundly - subverting
the expectation that larger = maximum range.

73's
Richard Clark, KB7QHC

607. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 05:04:45 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lqjin4t15i8hcm89geb0231id4mofas9o1@4ax.com>
Source record: 18031

On Thu, 22 Jan 2009 18:05:03 -0800 (PST), nm5k@wt.net wrote:

>On Jan 21, 8:59ï¿½pm, Richard Clark <kb7...@comcast.net> wrote:
>
>>
>> Hi Mark,
>>
>> That would seem to indicate you seriously unbalanced the antenna by
>> the side feed which is geometrically unbalanced. ï¿½For instance, the
>> line doesn't lead off horizontally for any great distance, does it?
>>
>> Of course, this all hinges on what you mean by not "near as well."
>>
> Not sure.. I don't the the position of the feed line should
>have been a problem, but it's been so long since I tried it,
>I forgot what happened. I just seem to remember trying it
>one time, and stuck with the bottom feed.
>I'll have to try it again later. I could use my circular 16 inch
>dia loop. It's small enough I can easily hold it and shift the
>polarization just by rotating it.

Hi Mark,

When you say rotating, do you mean about its axis along the chord of
its diameter, or rotate as in roll about its circumference?

73's
Richard Clark, KB7QHC

608. A little more about the Cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 05:41:46 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <uMcel.5836$tM6.5303@newsfe01.iad>
Source record: 18032

Much has been posted recently about the Heath Cantenna and the use of mineral oil to help increase its short-term power rating. While doing a search on a slightly similar subject, I ran across an interesting fact about the resistors used in the Cantenna which conveniently explained a problem I had seen with my unit.

The original non-inductive resistors used in Heath's Cantenna were made by Carborundum Corporation's Electric Products Division (which was purchased by Kanthal Globar Elektrowarme GmbH in 1993). Heath, as a company, was known for reasonably good engineering, but it was never known for using quality components. After all, the company started its electronic kit business using surplus components. My Cantenna (HN-31) was a good example.

I purchased my Cantenna kit in the late 1960's and used transformer oil provided by the local electric cooperative to fill the paint can. It was much later that I learned that the oil was contaminated with polychlorinated biphenyls. When new, the resistance was close to 50 ohms, but over several years the resistance gradually rose to approximately 100 ohms. When checked with my VSWR meter, the dummy load showed a consistent 2:1 VSWR. I thought I had "cooked" the resistor by using high power for an extended period, never thinking that the problem was inherent with the resistor itself.

It turns out that Heath had supplied a type A or AS resistor rather than the type SP which should have been used. I discovered this accidently in a search of QST articles. In the January 1989 Technical Correspondence column, there is a quote from the Carborundum catalog discussing the use of a heat transfer fluid to increase the power handling capability of these non-inductive resistors:

"Unless the resistors are protected by a coating that the fluid cannot permeate, such as an epoxy, these fluids cause the resistance of the Type AS
resistors to increase. With some silicones, this increase is as little as
10%; with some mineral oils this can be as much as 100%. Generally, the
resistance will rise as the fluid permeates the resistor body, and it will
finally stabilize..."

The Type SP resistors are already coated at the factory, and these should have been the ones Heath used. Note, however, that the epoxy coating reduces the heat transfer from the silicon carbide resistor to the oil to some extent. It also reduces the maximum voltage rating by as much as 50%.

In an earlier post, I had suggested the use of Bourns power RF flanged chip termination resistors stocked by Digi-Key (a 250 watt unit selling for $27.50). I have since learned that they also stock 800 watt units selling for $78 at the time of this writing. These are good to 1 GHz. They do contain Beryllium Oxide so be very careful when installing these. A data sheet from Bourns may be found at http://www.bourns.com/data/global/PDFs/CHF190104CBF.pdf. These devices require careful attention to heat sinking, even if they are approximately 1" x 2" in size.

73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net [transpose numbers to reply]

609. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 08:29:57 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <ada1EiDFAYeJFws+@g3ohx.demon.co.uk>
Source record: 18033

In message
<9df9210f-a2aa-4092-86a6-2f0d91adfe5e@f40g2000pri.googlegroups.com>,
nm5k@wt.net writes
>On Jan 21, 9:57ï¿½pm, "Spin" <noem...@alone.invalid> wrote:
>> If i were to construct a square receiving loop antenna for the am bcb that
>> is 24" or more per side..... how important would the guage of the wire be &
>> also solid versus stranded wire? Antenna would be used indoors.
>
>Doesn't matter much. Maybe a slight difference in Q with thin
>vs fat wire, but overall no big deal.
>I've got loops made from thin copper motor wire, and also
>one from insulated #14 gauge stranded house wire. They all work.
>From a mechanical standpoint I think a diamond is easier
>to deal with..
>Here is one of my favorite designs for a cheap simple PVC
>loop. You can slap one together pretty fast. Kind of like PVC
>tinker toys.. :/ You do have to drill the holes, but that's easy.
>http://home.comcast.net/~nm5k/loop5.jpg
>
What about ribbon cable? I've got a fair length of ribbon cable
(something like 25 wires - the sort used in PCs to connect hard drives
and the like) put away for a rainy-day loop antenna project. While I
could make one large loop using all 25 wires for the really low
frequencies, I'll almost certainly cut it up and make several smaller
loops with fewer wires for the higher frequencies.
--
Ian

610. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 12:46:05 UTC
From: PhattyMo <phattymo@not.net>
Message-ID: <4979bbfc$0$87072$815e3792@news.qwest.net>
Source record: 18034

Ian Jackson wrote:
> In message
> <9df9210f-a2aa-4092-86a6-2f0d91adfe5e@f40g2000pri.googlegroups.com>,
> nm5k@wt.net writes
>> On Jan 21, 9:57 pm, "Spin" <noem...@alone.invalid> wrote:
>>> If i were to construct a square receiving loop antenna for the am bcb
>>> that
>>> is 24" or more per side..... how important would the guage of the
>>> wire be &
>>> also solid versus stranded wire? Antenna would be used indoors.
>>
>> Doesn't matter much. Maybe a slight difference in Q with thin
>> vs fat wire, but overall no big deal.
>> I've got loops made from thin copper motor wire, and also
>> one from insulated #14 gauge stranded house wire. They all work.
>> From a mechanical standpoint I think a diamond is easier
>> to deal with..
>> Here is one of my favorite designs for a cheap simple PVC
>> loop. You can slap one together pretty fast. Kind of like PVC
>> tinker toys.. :/ You do have to drill the holes, but that's easy.
>> http://home.comcast.net/~nm5k/loop5.jpg
>>
> What about ribbon cable? I've got a fair length of ribbon cable
> (something like 25 wires - the sort used in PCs to connect hard drives
> and the like) put away for a rainy-day loop antenna project. While I
> could make one large loop using all 25 wires for the really low
> frequencies, I'll almost certainly cut it up and make several smaller
> loops with fewer wires for the higher frequencies.

Or put some taps on it,say every 2 turns? each one connected to a pole
of a large 12 position rotary switch.. then you can select a small
loop,or a really large one,for the low stuff. :-) Tuneable!

611. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 13:37:38 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <BKjel.13897$yr3.7844@nlpi068.nbdc.sbc.com>
Source record: 18035

nm5k@wt.net wrote:
> I don't see how you could be receiving the magnetic
> field if say you are 150 miles away from the station.

The same (flawed) argument could be used for the
electric field. :-)

Every photon contains both an electric field and
a magnetic field. The physical particles associated
with all electric, magnetic, and electromagnetic
fields are photons. It is simplistic thinking to
try to separate these phenomena which were unified
a long time ago.

Any receiving antenna is receiving electromagnetic
waves (photons). The ratio of the electric field
to the magnetic field is constant for free space.
A wire antenna in free space responds to the electric
field and extracts power resulting in less power being
available to both electric and magnetic fields. A ferrite
rod antenna responds to the magnetic field and extracts
power resulting in less power being available to both
electric and magnetic fields. The plane wave E-field and
H-field are normal to each other and polarized by
the plane wave transmitting antenna.

The power in an EM wave is ExH and the ratio of E/H
is constant for a constant medium. If energy is
extracted from either the E-field or H-field, the
magnitude of both fields are reduced by the same
percentage.

At the California 75m mobile shootouts that I attended,
the receiving antenna was a horizontal ferrite rod. It
was relatively impervious to the effects of non-metallic
objects in its vicinity, e.g. human bodies. It was
receiving the vertically polarized ground wave at a
distance of about 10WL from the transmitting antenna.

> From W8JI web page..
> "Acceleration of charges causes a very unique force
> on other charges in the Universe. We call this effect
> electromagnetic radiation. It is a totally different effect,
> and it is independent of induction fields. This is the only
> effect or force that works to move charges at a very
> large distance, and it cannot be created by mixing

> induction fields. "

W8JI doesn't seem to realize that "induction fields" have
been unified into the field of "electromagnetism". Any
difference between an electric field, a magnetic field,
and an electromagnetic field is purely quantitative, not
qualitative as W8JI implies.

I'm not saying that a coaxial loop is a "magnetic" antenna.
I am saying that antennas do exist which respond primarily
to the magnetic field and a ferrite rod antenna is one
obvious example proven by rotating the ferrite rod in the
presence of a vertically polarized signal. Note the
polarization of a radiated plane wave is referenced to
the E-field, not the H-field.
--
73, Cecil http://www.w5dxp.com

612. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 13:48:02 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <lUjel.13898$yr3.10370@nlpi068.nbdc.sbc.com>
Source record: 18036

christofire wrote:
> Could I suggest taking a look at one of the well regarded text books such as
> 'Antennas' by J. Kraus.

The international 3rd edition is available at www.abebooks.com
for about $22. There's no reason for any amateur radio operator
who is serious about antennas not to have one.

http://www.abebooks.com/servlet/SearchResults?an=Kraus+and+Marhefka&sts=t&tn=Antennas+For+All+Applications&x=47&y=13
--
73, Cecil http://www.w5dxp.com

613. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 13:55:58 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <N%jel.5525$jZ1.1845@flpi144.ffdc.sbc.com>
Source record: 18037

nm5k@wt.net wrote:
> Well, that's my whole point. If the station you are listening to
> is 150 miles away, I don't see how the local fields will really
> come into play.

One is not receiving the local fields. One is receiving
the radiated EM field consisting of photons traveling at
the speed of light. One has a choice of extracting energy
from the E-field thus creating a voltage which results in
a current or extracting energy from the H-field thus creating
a current which results in a voltage. Given the same load,
the effects of either type of extraction are the same.
--
73, Cecil http://www.w5dxp.com

614. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 13:57:40 UTC
From: dave <dave@dave.dave>
Message-ID: <o1kel.136035$3_4.100335@newsfe10.iad>
Source record: 18038

Ian Jackson wrote:
> In message
> <9df9210f-a2aa-4092-86a6-2f0d91adfe5e@f40g2000pri.googlegroups.com>,
> nm5k@wt.net writes
>> On Jan 21, 9:57 pm, "Spin" <noem...@alone.invalid> wrote:
>>> If i were to construct a square receiving loop antenna for the am bcb
>>> that
>>> is 24" or more per side..... how important would the guage of the
>>> wire be &
>>> also solid versus stranded wire? Antenna would be used indoors.
>>
>> Doesn't matter much. Maybe a slight difference in Q with thin
>> vs fat wire, but overall no big deal.
>> I've got loops made from thin copper motor wire, and also
>> one from insulated #14 gauge stranded house wire. They all work.
>> From a mechanical standpoint I think a diamond is easier
>> to deal with..
>> Here is one of my favorite designs for a cheap simple PVC
>> loop. You can slap one together pretty fast. Kind of like PVC
>> tinker toys.. :/ You do have to drill the holes, but that's easy.
>> http://home.comcast.net/~nm5k/loop5.jpg
>>
> What about ribbon cable? I've got a fair length of ribbon cable
> (something like 25 wires - the sort used in PCs to connect hard drives
> and the like) put away for a rainy-day loop antenna project. While I
> could make one large loop using all 25 wires for the really low
> frequencies, I'll almost certainly cut it up and make several smaller
> loops with fewer wires for the higher frequencies.

Stick with a single wire and relatively few loops. More wire won't make
the loop bigger, just harder to tune.

615. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 14:45:46 UTC
From: Allodoxaphobia <bit-bucket@config.com>
Message-ID: <slrngnjm0q.19ab.bit-bucket@shell.config.com>
Source record: 18039

On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
> Ian Jackson wrote:
>>>
>> What about ribbon cable? I've got a fair length of ribbon cable
>> (something like 25 wires - the sort used in PCs to connect hard drives
>> and the like) put away for a rainy-day loop antenna project. While I
>> could make one large loop using all 25 wires for the really low
>> frequencies, I'll almost certainly cut it up and make several smaller
>> loops with fewer wires for the higher frequencies.
>
> Stick with a single wire and relatively few loops. More wire won't make
> the loop bigger, just harder to tune.

I don't think he meant to connect all those wires in parallel.
But, it would be a little tedious to connect each wire at one end to its
neighbor at the other end (of the loop), and _not_ create an ugly bird's
nest at the 'joint'.

Jonesy
--
Marvin L Jones | jonz | W3DHJ | linux
38.24N 104.55W | @ config.com | Jonesy | OS/2
* Killfiling google & XXXXbanter.com: jonz.net/ng.htm

616. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 15:22:19 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Rglel.18594$Ws1.4408@nlpi064.nbdc.sbc.com>
Source record: 18040

Allodoxaphobia wrote:
> I don't think he meant to connect all those wires in parallel.

I thought he was talking about a tapped coil with
the unused parts floating. Might result in a new
Tesla coil design. :-)
--
73, Cecil http://www.w5dxp.com

617. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 15:46:20 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <gDlel.1715$aI1.266@nwrddc01.gnilink.net>
Source record: 18041

"Allodoxaphobia" <bit-bucket@config.com> wrote in message
news:slrngnjm0q.19ab.bit-bucket@shell.config.com...
> On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
>> Ian Jackson wrote:
>>>>
>>> What about ribbon cable? I've got a fair length of ribbon cable
>>> (something like 25 wires - the sort used in PCs to connect hard drives
>>> and the like) put away for a rainy-day loop antenna project. While I
>>> could make one large loop using all 25 wires for the really low
>>> frequencies, I'll almost certainly cut it up and make several smaller
>>> loops with fewer wires for the higher frequencies.
>>
>> Stick with a single wire and relatively few loops. More wire won't make
>> the loop bigger, just harder to tune.
>
> I don't think he meant to connect all those wires in parallel.
> But, it would be a little tedious to connect each wire at one end to its
> neighbor at the other end (of the loop), and _not_ create an ugly bird's
> nest at the 'joint'.
>
> Jonesy

Hi Jonesy

For what Its Worth, I tried making a big AM reception loop using some big ribbon cable, and it didnt work. The cable was/is color coded so it was easy to connect the ends so the input to output is a series connection of the wires. The antenna didnt work. I assummed it was due to excessive 'distributed capacity' between windings. I had no interest in researching the reason for ribbon cable use for AM loop antennas. Besides, it got Very difficult to assemble the loop onto the mounting frame and have it look presentable.

" >> Stick with a single wire and relatively few loops. More wire won't make
>> the loop bigger, just harder to tune."

Jerry KD6JDJ
>

618. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 16:57:39 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <X4LmdmKDcfeJFwft@g3ohx.demon.co.uk>
Source record: 18042

In message <slrngnjm0q.19ab.bit-bucket@shell.config.com>, Allodoxaphobia
<bit-bucket@config.com> writes
>On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
>> Ian Jackson wrote:
>>>>
>>> What about ribbon cable? I've got a fair length of ribbon cable
>>> (something like 25 wires - the sort used in PCs to connect hard drives
>>> and the like) put away for a rainy-day loop antenna project. While I
>>> could make one large loop using all 25 wires for the really low
>>> frequencies, I'll almost certainly cut it up and make several smaller
>>> loops with fewer wires for the higher frequencies.
>>
>> Stick with a single wire and relatively few loops. More wire won't make
>> the loop bigger, just harder to tune.
>
>I don't think he meant to connect all those wires in parallel.
>But, it would be a little tedious to connect each wire at one end to its
>neighbor at the other end (of the loop), and _not_ create an ugly bird's
>nest at the 'joint'.
>
I think that you underestimate my constructional abilities!
I'm not sure how many turns would be needed. 4, 5 or 6 at the most
(depending on frequency)? I'd certainly study the available information
before I started. Of course, before I started, any superfluous wires
would be stripped from the ribbon - it's just that the ribbon I've got
has a lot wires.

I really can't see any problem with cutting the ribbon, and then
re-joining it with the end of each wire being connected to its neighbour
This technique MUST have been used before by someone.
--
Ian

619. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 17:03:25 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <wY8vlPLdhfeJFw47@g3ohx.demon.co.uk>
Source record: 18043

In message <gDlel.1715$aI1.266@nwrddc01.gnilink.net>, Jerry
<jerrymartes@verizon.net> writes
>
>"Allodoxaphobia" <bit-bucket@config.com> wrote in message
>news:slrngnjm0q.19ab.bit-bucket@shell.config.com...
>> On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
>>> Ian Jackson wrote:
>>>>
>>>> What about ribbon cable? I've got a fair length of ribbon cable
>>>> (something like 25 wires - the sort used in PCs to connect hard drives
>>>> and the like) put away for a rainy-day loop antenna project. While I
>>>> could make one large loop using all 25 wires for the really low
>>>> frequencies, I'll almost certainly cut it up and make several smaller
>>>> loops with fewer wires for the higher frequencies.
>>>
>>> Stick with a single wire and relatively few loops. More wire won't make
>>> the loop bigger, just harder to tune.
>>
>> I don't think he meant to connect all those wires in parallel.
>> But, it would be a little tedious to connect each wire at one end to its
>> neighbor at the other end (of the loop), and _not_ create an ugly bird's
>> nest at the 'joint'.
>>
>> Jonesy
>
>
> Hi Jonesy
>
> For what Its Worth, I tried making a big AM reception loop using some big
>ribbon cable, and it didnt work. The cable was/is color coded so it was
>easy to connect the ends so the input to output is a series connection of
>the wires. The antenna didnt work. I assummed it was due to excessive
>'distributed capacity' between windings. I had no interest in researching
>the reason for ribbon cable use for AM loop antennas. Besides, it got Very
>difficult to assemble the loop onto the mounting frame and have it look
>presentable.
>
Your findings are noted. I did wonder about the effects of distributed
capacity between the windings. It looks like it's back to the drawing
board!
>
> " >> Stick with a single wire and relatively few loops. More wire won't
>make
>>> the loop bigger, just harder to tune."

>
> Jerry KD6JDJ
--
Ian

620. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 20:38:17 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gld9vogbo1@news.service.uci.edu>
Source record: 18044

christofire wrote:

> I'm aware of issues involved in claiming generation of separate E or H
> fields, as has been described by Kabbary et al in their 'crossed-field
> antenna', but surely the issues concerning a receiving antenna are
> different?

Those issues, and an acute sensitivity to them, are evidently at the root of the misunderstanding here. The oversensitivity perhaps caused confusion, irritation, defensiveness, and temporary blurry vision.

Scientists at the MIT Radiation labs during World War II found that it was a simple matter to measure E and H individually. I imagine that it is still possible to do without having to perform the miracle of 'field separation'.

ac6xg

621. Re: The Strange True Story of a Radio Station's Transmitter in NewY...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 22:09:33 UTC
From: richardharrison@webtv.net
Message-ID: <23614-497A401D-5324@storefull-3172.bay.webtv.net>
Source record: 18045

Bob, VK2YQA wrote:
"What is the RX level on earth etc.?"

J.D. Kraus was a great radio astronomer. On page 403 of the 3rd. ed of "Antennas" which Cecil touts is found eqn. 5 for the Source Flux Density in watts per sq. mtr. per Hz bandwidth.
Kraus notes that:
"In radio astronomy observations, flux densities are very small, and the unit of convenience is the jansky (jy) = 10 to the minus 26 W/m squared/ Hz bandwidth, after Jansky who made the first radio astronomy observations in 1933.

I`ve worked with wide-band terrestrial microwave receivers (2 or 3 MHz bandwidth) having sensitivities of about -90 dbm, and 2-way FM radios having sensitivities of about 1/4 microvolt for a bandwidth of about 16 KHz. Both examples were about state of the art at the time.

I`d bet on Kraus anytime.

Best regards, Richard Harrison, KB5WZI

622. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 22:43:16 UTC
From: richardharrison@webtv.net
Message-ID: <14160-497A4804-5203@storefull-3171.bay.webtv.net>
Source record: 18046

Art wrote:
"David just for the record, skin depth is proportional to
frequency----."

Not exactly. Skin depth is inversely proportional to the square root of the frequency.

For example at 1 Hz the skin depth is about 2.6 in. in copper. At 10 Hz. it is about 0.826 in. and at 100 Hz the depth is about 0.260 in. and at 1000 Hz the depth is 0.0826 in. etc.

Best regards, Richard Harrison, KB5WZI

623. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 23:05:36 UTC
From: Dave <noone@nowhere.com>
Message-ID: <43sel.1525$Aw2.211@nwrddc02.gnilink.net>
Source record: 18047

"Richard Harrison" <richardharrison@webtv.net> wrote in message
news:14160-497A4804-5203@storefull-3171.bay.webtv.net...
> Art wrote:
> "David just for the record, skin depth is proportional to
> frequency----."
>
> Not exactly. Skin depth is inversely proportional to the square root of
> the frequency.
>
> For example at 1 Hz the skin depth is about 2.6 in. in copper. At 10 Hz.
> it is about 0.826 in. and at 100 Hz the depth is about 0.260 in. and at
> 1000 Hz the depth is 0.0826 in. etc.
>
> Best regards, Richard Harrison, KB5WZI
>

don't confuse him with the facts!

624. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 23:06:24 UTC
From: richardharrison@webtv.net
Message-ID: <14160-497A4D70-5212@storefull-3171.bay.webtv.net>
Source record: 18049

Jim Kelley, AC6XG wrote:
"Scientists at the MIT Radiation Labs during World War ll found that it was a simple matter to measure E and H individually."

Yes indeed. Two dircuits in separate shielded enclosures can be coupled with a coupling capacitor and only the E-field gets through. Similarly, two transformer windings separated by a Faraday shield are completely coupled magnetically and have no electrostatic coupling. I`ve worked in several broadcast stations and all towers were so coupled to avoid capacitive coupling which could give advantage to harmonic frequencies over the broadcast fundamental frequency.

Best regards, Richaqrd Harrison, KB5WZI

625. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 23:11:04 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <lPWdndziBpQU0-fUnZ2dnUVZ_ojinZ2d@posted.easystreetonline>
Source record: 18048

Richard Harrison wrote:
> Art wrote:
> "David just for the record, skin depth is proportional to
> frequency----."
>
> Not exactly. Skin depth is inversely proportional to the square root of
> the frequency.
>
> For example at 1 Hz the skin depth is about 2.6 in. in copper. At 10 Hz.
> it is about 0.826 in. and at 100 Hz the depth is about 0.260 in. and at
> 1000 Hz the depth is 0.0826 in. etc.
>
> Best regards, Richard Harrison, KB5WZI

Actually, skin depth is inversely proportional to the square root of frequency only in a good conductor like copper. Some common materials like dirt are fairly good conductors at low frequencies but behave more like dielectrics at higher frequencies. And skin depth doesn't change with frequency in a dielectric. For "average" ground (0.005 S/m conductivity, permittivity of 13), the transition between conductor behavior and dielectric behavior is at about 6.9 MHz, in the middle of the HF range. Well below that frequency, the skin depth changes in inverse proportion to the square root of the frequency; above it, the skin depth stays nearly constant. For "average" ground:

Freq MHz Skin Depth m
0.01 71.2
0.5 10.4
1 7.6
2 5.8
4 4.7
6.9 4.2
8 4.1
16 3.9
100 3.8

Roy Lewallen, W7EL

626. Re: A little more about the Cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-23 23:31:19 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <frsel.21$Nc5.4@newsfe10.iad>
Source record: 18050
Cross-posted to: rec.test,rec.radio.amateur.antenna

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:93ujn49it2458627dbl3t6m2umm1sgviko@4ax.com...
> On Fri, 23 Jan 2009 00:41:46 -0500, "Barry L. Ornitz"
> <unknown@nospam.org>
> wrote:
>>"Unless the resistors are protected by a coating that the fluid cannot
>>permeate, such as an epoxy, these fluids cause the resistance of the Type
>>AS
>>resistors to increase. With some silicones, this increase is as little
>>as
>>10%; with some mineral oils this can be as much as 100%. Generally, the
>>resistance will rise as the fluid permeates the resistor body, and it
>>will
>>finally stabilize..."
>
> For a Carborundum resistor, if the mineral oil causes the resistance
> to increase, I would guess(tm) that it would corrode or otherwise
> remove material from the resistive element. That might [make] it a one
> way
> trip, where subsequent solvent cleaning, heating, and drying would
> probably not return the resistor to its original value. Doubling the
> value suggests that a considerable amount of material was corroded
> away.
>
> If the resistor material were [like] carbon composition [resistors], the
> mineral
> oil would act as an insulator between carbon grains, reducing the number
> of points of contact, and also increasing the resistance. However,
> this should be recoverable by cleaning and baking.

> Are either of these mechanisms probable?

From what I know about the original Acheson Process and the later Lely and Modified Lely Processes for making silicon carbide, and about subsequent sintering processes, I suspect the true mechanism is somewhere in between the two extremes that Jeff suggests, but the second mechanism is more likely. Silicon carbide and graphite are quite inert to organic solvents. It would even take something like hydrofluoric acid to attack the material at such low temperatures. Knowing exactly how the material is sintered would help with the explanation. Three main methods of sintering silicon carbide are used. One uses glass frit or metal as a bonding agent. The second uses graphite and silicon metal which is reaction bonded to the silicon carbide grains. Finally boron carbide is used as a sintering aid for very high temperature applications. Since sintering only bonds a

composite material in discrete points (as opposed to fully melting the material), an insulating liquid could diffuse between grains and increase the bulk resistance.

> Have you tried to "repair" the load resistor?

No. Once I discovered that the transformer oil I had been given was contaminated with PCB's, I disposed of the Cantenna. The PCB containing oil was burned in an EPA-rated incinerator, and the Carborundum resistor was sent to a hazardous waste landfill. I had the original HN-31, so I rinsed the metal parts with solvent that was burned with the oil. I never tried washing the resistor, and I was afraid to vaporize the trapped mineral oil because of the PCB contamination.

By this time, I had purchased a high power Bird termination load at a hamfest for $5. It had originally been used as a termination for a TACAN system and was marked accordingly with a metal plate stating that it was rated for a kilowatt in the frequency range of 900 to 1250 MHz. The seller had dropped the price in increments all day and yet hams were not interested thinking it would only work in that frequency range. I realized that this was a TEM and not a filled waveguide load and I got an exceptional deal. The seller had not bothered to read the resistance with an ohmmeter! Not wanting to pay Bird's high prices for a Type-N adapter, I made one myself.

73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net {transpose the digits to reply}

627. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 01:00:40 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <v9pkn4lptg0p5743dst427jk8gl8pd6si7@4ax.com>
Source record: 17951

On Fri, 23 Jan 2009 17:06:24 -0600, richardharrison@webtv.net (Richard Harrison) wrote:

>Jim Kelley, AC6XG wrote:
>"Scientists at the MIT Radiation Labs during World War ll found that it
>was a simple matter to measure E and H individually."
>
>Yes indeed. Two dircuits in separate shielded enclosures can be coupled
>with a coupling capacitor and only the E-field gets through. Similarly,
>two transformer windings separated by a Faraday shield are completely
>coupled magnetically and have no electrostatic coupling. I`ve worked in
>several broadcast stations and all towers were so coupled to avoid
>capacitive coupling which could give advantage to harmonic frequencies
>over the broadcast fundamental frequency.

Yes indeed. Two examples of rare species that require a controlled environment to persist.

However, neither describe how you can build an antenna that can boost its S/N ratio by virtue of ignoring one field over the other - unless Art has a 160M (AM Band much less) waveguide invention that occupies the volume of a container of Quaker Oats.

Let's for the moment squeeze our eyes real tight and imagine that it has come to pass and here comes the noise and the signal (of that eponymous S/N ratio fame). They both impinge upon this "state of the Art" design. Which field is chosen won't matter much (but I can imagine this will be argued until the design is deaf to both).

73's
Richard Clark, KB7QHC

628. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 03:24:38 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7f711fae-8ffe-45cd-83c9-20fdb5f941b4@a12g2000pro.googlegroups.com>
Source record: 17952

```
On Jan 23, 4:43 pm, richardharri...@webtv.net (Richard Harrison)
wrote:
> Art wrote:
>
> "David just for the record, skin depth is proportional to
> frequency----."
>
> Not exactly. Skin depth is inversely proportional to the square root of
> the frequency.
>
> For example at 1 Hz the skin depth is about 2.6 in. in copper. At 10 Hz.
> it is about 0.826 in. and at 100 Hz the depth is about 0.260 in. and at
> 1000 Hz the depth is 0.0826 in. etc.
>
> Best regards, Richard Harrison, KB5WZI

Yes, I should have used "varied" instead of "proportional" But the
essence of the posting is still correct namely, it is false to state
that the skin effect always penetrate thro out the conductor
as is the statement that a current cannot travel thru the center of a
conductor where the material is devoid of eddy currents but enclosedn
by a eddy current shield
This is not to say that with a applied AC current such a route is
chosen as I previously thought
Art
```

629. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 04:29:20 UTC
From: richardharrison@webtv.net
Message-ID: <14162-497A9920-1826@storefull-3171.bay.webtv.net>
Source record: 17953

Richard Clark, KB7QHC wrote:
"Which field is chosen won`t mstter much----."

Agreed as the fields trade the same energy back and forth on each cycle.

Narrowing bandwidth is not the only way to reduce noise. Auto radios use non-directional antennas out of convenience. A desired signal can come from any direction. But, directivity can improve signal to noise ratio as it reduces noise from unwanted directions. An example is my Telefunken receiver which features a large horizontal ferrite rod antenna. This rod is rotatable in azimuth from a control on the front panel for best reception. This radio was designed for reception in a fixed location so azimuth change is needed only when changing stations. A ferrite rod antenna can be used anywhere to improve s/n ratio through its high directivity. It requires more inconvenience to reset when the direction of the vehicle changes and it needs to be mounted outside the shielded enclosure and equipped with a direction control, i.e. a rotator.

MFJ among others sells such a ferrite rod antenna for the standard broadcast band. Aimed for best reception of KGO in San Francisco, it would discriminate against noise from most other directions.

Best regards, Richard Harrison, KB5WZI

630. Re: A little more about the Cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 07:40:27 UTC
From: Bryan <bryan.swadenerNOSPAM@comcast.net>
Message-ID: <NZydncBiKe91WOfUnZ2dnUVZ_jCdnZ2d@giganews.com>
Source record: 17954

NoSPAM wrote:
> Much has been posted recently about the Heath Cantenna and the use of
> mineral oil to help increase its short-term power rating. While doing a
> search on a slightly similar subject, I ran across an interesting fact
> about the resistors used in the Cantenna which conveniently explained a
> problem I had seen with my unit.
>
> The original non-inductive resistors used in Heath's Cantenna were made by
> Carborundum Corporation's Electric Products Division (which was purchased
> by Kanthal Globar Elektrowarme GmbH in 1993). Heath, as a company, was
> known for reasonably good engineering, but it was never known for using
> quality components. After all, the company started its electronic kit
> business using surplus components. My Cantenna (HN-31) was a good
> example.
>
> I purchased my Cantenna kit in the late 1960's and used transformer oil
> provided by the local electric cooperative to fill the paint can. It was
> much later that I learned that the oil was contaminated with
> polychlorinated biphenyls. When new, the resistance was close to 50 ohms,
> but over several years the resistance gradually rose to approximately 100
> ohms. When checked with my VSWR meter, the dummy load showed a consistent
> 2:1 VSWR. I thought I had "cooked" the resistor by using high power for
> an extended period, never thinking that the problem was inherent with the
> resistor itself.
>
> It turns out that Heath had supplied a type A or AS resistor rather than
> the type SP which should have been used. I discovered this accidently in
> a search of QST articles. In the January 1989 Technical Correspondence
> column, there is a quote from the Carborundum catalog discussing the use
> of a heat transfer fluid to increase the power handling capability of
> these non-inductive resistors:
>
> "Unless the resistors are protected by a coating that the fluid cannot
> permeate, such as an epoxy, these fluids cause the resistance of the
> Type AS
> resistors to increase. With some silicones, this increase is as little
> as
> 10%; with some mineral oils this can be as much as 100%. Generally,
> the
> resistance will rise as the fluid permeates the resistor body, and it
> will
> finally stabilize..."
>
> The Type SP resistors are already coated at the factory, and these should

> have been the ones Heath used. Note, however, that the epoxy coating
> reduces the heat transfer from the silicon carbide resistor to the oil to
> some extent. It also reduces the maximum voltage rating by as much as
> 50%.
>
> In an earlier post, I had suggested the use of Bourns power RF flanged
> chip termination resistors stocked by Digi-Key (a 250 watt unit selling
> for $27.50). I have since learned that they also stock 800 watt units
> selling for $78 at the time of this writing. These are good to 1 GHz.
> They do contain Beryllium Oxide so be very careful when installing these.
> A data sheet from Bourns may be found at
> http://www.bourns.com/data/global/PDFs/CHF190104CBF.pdf. These devices
> require careful attention to heat sinking, even if they are approximately
> 1" x 2" in size.
>
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnitz84@charter.net [transpose numbers to reply]

I found my HN31 had the same symptom though, I don't know what kind of coolant was used (the unit came to me used, in the 70s, with no info). I've since refurbished it w/ a replacement resistor (Type SP) and non-PCB xfmr oil (courtesy of my local power company). That was about a year ago.

Recently, I came upon a few dozen RF Power Labs (now Anaren) RFP400-50R (400W, 50-ohm) flange-mount resistors, some good-sized heatsinks, and 120mm x120mm x 100cfm tubeaxial fans (scrapped parts from my employer). I arranged four resistors in series-parallel on two heatsinks, with the heatsink mounting surfaces face-to-face, and the fins vertical. A fan blows air upward thru the heatsink fins. I have an LM35DT centigrade temperature sensor affixed to one of the heatsinks. Feeding 1100W at 40.68MHz into the load produced a stabilized temperature of about 55&#65533;C. The resistors are rated to 100&#65533;C at 100% of rated power. Me thinks they'll be fine for Amateur use. :)

73,
Bryan WA7PRC

631. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 11:08:01 UTC
From: Dave <noone@nowhere.com>
Message-ID: <IECeI.1610$Aw2.81@nwrddc02.gnilink.net>
Source record: 17955

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:7f711fae-8ffe-45cd-83c9-20fdb5f941b4@a12g2000pro.googlegroups.com...
>On Jan 23, 4:43 pm, richardharri...@webtv.net (Richard Harrison)
>wrote:
>> For example at 1 Hz the skin depth is about 2.6 in. in copper. At 10 Hz.
>> it is about 0.826 in. and at 100 Hz the depth is about 0.260 in. and at
>> 1000 Hz the depth is 0.0826 in. etc.
>Yes, I should have used "varied" instead of "proportional" But the
>essence of the posting is still correct namely, it is false to state
>that the skin effect always penetrate thro out the conductor
>as is the statement that a current cannot travel thru the center of a
>conductor where the material is devoid of eddy currents but enclosedn
>by a eddy current shield

of course current travels through the center of the conductor, just not the
way you had thought.

632. Re: A little more about the Cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 18:36:59 UTC
From: Bill Ogden <billogden@optonline.net>
Message-ID: <497b5f52$0$20284$607ed4bc@cv.net>
Source record: 17956

I purchased a Cantenna from Heathkit in about 1961 or 62. I remember finding a gallon of mineral oil in a drug store at a low price. (It must have been a really low price to impress me at the time.) It has been in the Cantenna ever since, and still works well. I do not use it much, but I sometimes run 100w or about 700w (depending on whether the AL-80B is being used) without problems. SWR indicated in the 1.1 or 1.2 range. It was a great investment.

Bill
W2WO

633. Re: KC8QJP and N8WWM Glory Hole Party - KC8QJP will be offering discount tax consulting through the gloryhole while N8WWM is on his knees

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 18:44:20 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <497b6185$0$19492$c5fe31e7@reader.usenet4all.se>
Source record: 17957
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave

"RF BURNS" <rfburns33@hotmail.com> wrote in message
news:gl7rcv$v1h$1@news.mixmin.net...
>
> "zoltan" <zoltan@zoltan.com> wrote in message
> news:6jgVk.11173$qh4.10597@newsfe04.iad...
>>
>> "n8wwm mrbindwell (fatboy)" <dougay@nospam.com> wrote in message
>> news:gcgpfa$ct7$1@news.mixmin.net...
>>>
>>> "Leland C Scott" <kc8ldo@madisonhts.com> wrote in message
>>> news:gc086k$u0v$1@news.tornevall.net...
>>>> "n8wwm mrbindwell (fatboy)" wrote:
>>>>
>>>> http://img254.imageshack.us/my.php?image=dougpetro3yk1.jpg
>>>>
>>>>> Pick up some crisco on your way over tonight, KC8QJP needs a good
>>>>> slathering on her hind quarters.
>>>>>
>>>>> She's also getting ready to start her tax return posts again like she
>>>>> does every year. You remember those..
>>>>>
>>>>> http://tinyurl.com/46teqq
>>>>>
>>>>> She says she wants to add some pics of her and me to them this year.
>>>>>
>>>>>
>>>>>
>>>> Cool!
>>>>
>>> they're having it over here, queerboy.
>>>
>>> Lance & Lisa Adair
>>> 10431 Jackman Rd
>>> Temperance, MI 48182-9629
>>> (734) 854-2426
>>>
>>>
>> n8wwm is a convicted criminal
>>
>>
> N8WWM is a shut in loser.
>

He hardly ever breaks the law anymore.

634. Re: A little more about the Cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 20:10:50 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <d8bd601f-5715-4f1a-8164-806b04c14f00@z27g2000prd.googlegroups.com>
Source record: 17958

On Jan 24, 1:36 pm, "Bill Ogden" <billog...@optonline.net> wrote:
> I purchased a Cantenna from Heathkit in about 1961 or 62. I remember
> finding a gallon of mineral oil in a drug store at a low price. (It must
> have been a really low price to impress me at the time.) It has been in the
> Cantenna ever since, and still works well. I do not use it much, but I
> sometimes run 100w or about 700w (depending on whether the AL-80B is being
> used) without problems. SWR indicated in the 1.1 or 1.2 range. It was a
> great investment.
>
> Bill
> W2WO

If you run packet on a radio connected to a cantenna, does that make
the cantenna a bit bucket?

Jimmie

635. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 20:30:08 UTC
From: dloydlavies@gmail.com
Message-ID: <shumn41ltg4g80u470j3bk24436l8fo30a@4ax.com>
Source record: 17959
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave

On Sat, 24 Jan 2009 13:44:20 -0500, "KC8QJP" <KC8QJP@yahoo.com> wrote:

>
>"RF BURNS" <rfburns33@hotmail.com> wrote in message

fake spamer

636. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 20:54:09 UTC
From: dloydlavies@gmail.com
Message-ID: <dvvmn4pkka0nktnv42vdukglcoid0k28rr@4ax.com>
Source record: 17960
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

637. Re: A little more about the Cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-24 23:46:56 UTC
From: dave <dave@dave.dave>
Message-ID: <uvqdne2PPOrtNebUnZ2dnUVZ_vednZ2d@earthlink.com>
Source record: 17961

JIMMIE wrote:
> On Jan 24, 1:36 pm, "Bill Ogden" <billog...@optonline.net> wrote:
>> I purchased a Cantenna from Heathkit in about 1961 or 62. I remember
>> finding a gallon of mineral oil in a drug store at a low price. (It must
>> have been a really low price to impress me at the time.) It has been in the
>> Cantenna ever since, and still works well. I do not use it much, but I
>> sometimes run 100w or about 700w (depending on whether the AL-80B is being
>> used) without problems. SWR indicated in the 1.1 or 1.2 range. It was a
>> great investment.
>>
>> Bill
>> W2WO
>
> If you run packet on a radio connected to a cantenna, does that make
> the cantenna a bit bucket?
>
> Jimmie

:-)

638. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 09:31:52 UTC
From: nm5k@wt.net
Message-ID: <4c4b6f31-75bb-488d-806a-79c057bee35a@g1g2000pra.googlegroups.com>
Source record: 17962

On Jan 23, 7:37 am, Cecil Moore <nos...@w5dxp.com> wrote:

> I'm not saying that a coaxial loop is a "magnetic" antenna.
> I am saying that antennas do exist which respond primarily
> to the magnetic field and a ferrite rod antenna is one
> obvious example proven by rotating the ferrite rod in the
> presence of a vertically polarized signal. Note the
> polarization of a radiated plane wave is referenced to
> the E-field, not the H-field.
> --
> 73, Cecil http://www.w5dxp.com

I had to ponder the loop for a while. Something kept
bugging me, and it was mainly wondering about the
pattern of say a small 1/10 wave loop, vs a large 1 wave
loop. Both are diamonds.
I was pretty sure I remembered them as having a
different pattern, and I decided to model them to
see.
Well. I found out that even when I'm feeding the
small diamond at the bottom corner, I'm still
getting mostly all vertical polarization.
So with the small vertical loop, I'm getting almost
all vertical polarization, no matter where it is fed.
With it fed on a side corner, which most would
consider vertically fed, I have almost the same
pattern, except it's even cleaner, with very little
horizontal.
Totally unlike the large loop which if I feed at the
bottom, it's almost all horizontally polarized.
So it seems my MW loops are still pretty
much vertically polarized, even when fed at
the bottom corner.
So anyway, as far as the small loops, I'm
not receiving cross polarized after all.
I generally don't see much difference in operation
between a ferrite loop antenna, and a wound
solenoid loop with many turns for MW.
And I did make a "PVC Tube" solenoid loop
antenna once when I was messing around
with them. But don't have it together now.
But I seem to remember it acting basically
the same as all the other versions.
IE: the directivity was off it's ends.
I'd have to make another one to compare

tilting it vertical, vs horizontal.

639. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 09:51:03 UTC
From: nm5k@wt.net
Message-ID: <37b5b455-689a-4435-88e0-1f51be522912@r37g2000prr.googlegroups.com>
Source record: 17963

On Jan 23, 8:45 am, Allodoxaphobia <bit-buc...@config.com> wrote:
> On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
> > Ian Jackson wrote:
>
> >> What about ribbon cable? I've got a fair length of ribbon cable
> >> (something like 25 wires - the sort used in PCs to connect hard drives
> >> and the like) put away for a rainy-day loop antenna project. While I
> >> could make one large loop using all 25 wires for the really low
> >> frequencies, I'll almost certainly cut it up and make several smaller
> >> loops with fewer wires for the higher frequencies.
>
> > Stick with a single wire and relatively few loops. More wire won't make
> > the loop bigger, just harder to tune.
>
> I don't think he meant to connect all those wires in parallel.
> But, it would be a little tedious to connect each wire at one end to its
> neighbor at the other end (of the loop), and _not_ create an ugly bird's
> nest at the 'joint'.
>
> Jonesy

Yep, it's a continuous single wire. If you used ribbon cable, you
would have to put a cut, and the jumper to jump over to the next
wire on each turn.. Would be a pain.
You just take a single length of wire and thread it around
through the holes until you have the number of turns you need.
You are moving over a row of holes on each turn.
The main thing to consider is you end up building the loop
and deciding the proper number of turns around the
capacitor you have, not the other way around.
A double 365pf cap "730 pf total if jumped together" will let
you be able to tune the whole AM-BC band with most loops.
My 44 inch per side diamond loop for MW has five turns.
My 16 inch diameter circle loop for MW uses 12 turns.
Both are using basically the same cap values.
I also use a single turn coupling loop that is inside and
slightly smaller than the main loop. But it does not effect
tuning, and it's size and spacing from the main loop is fairly
uncritical. The cap is in parallel with the main loop winding.
If you use a portable with a built in loop stick antenna,
you can just couple the radio to the loop and it will
work. But all my radios require a feed line to the antenna.

640. Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 11:20:00 UTC
From: "D. Travis" <not@here.com>
Message-ID: <497c4ae4$0$19069$6d4158fb@reader.xsnews.nl>
Source record: 17964

Around the low bands so 80 and 40 it seems barely to plough through..
No sunspots or what ?
What prediction sites is relighable ?
Have you heard the event on the magnethosphere ? I have.

641. Re: Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 12:07:38 UTC
From: Dave <noone@nowhere.com>
Message-ID: <eCYel.1896$Aw2.1051@nwrddc02.gnilink.net>
Source record: 17965

"D. Travis" <not@here.com> wrote in message
news:497c4ae4$0$19069$6d4158fb@reader.xsnews.nl...
>
> Around the low bands so 80 and 40 it seems barely to plough through..
> No sunspots or what ?
> What prediction sites is relighable ?
> Have you heard the event on the magnethosphere ? I have.

160m has been great this weekend!

642. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 15:46:36 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%K%el.9408$8_3.7125@flpi147.ffdc.sbc.com>
Source record: 17966

nm5k@wt.net wrote:
> I'd have to make another one to compare
> tilting it vertical, vs horizontal.

Again, I'm not talking about any loop in air. I'm only one example of a ferrite rod loop antenna as exists in AM radios. Those rods are mounted horizontal within the radio while the polarization of the transmitted signal is vertical.

This was in response to the assertion that magnetic field antennas don't exist. A ferrite rod responds to the EM magnetic field whether there are any coils of wire on it or not.
--
73, Cecil http://www.w5dxp.com

643. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 15:48:03 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <cM%el.9409$8_3.3579@flpi147.ffdc.sbc.com>
Source record: 17967

Richard Harrison wrote:
> MFJ among others sells such a ferrite rod antenna for the standard
> broadcast band.

Richard, what's the MFJ part number? I can't locate it
in the catalog.
--
73, Cecil http://www.w5dxp.com

644. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 15:52:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <hQ%el.9410$8_3.4010@flpi147.ffdc.sbc.com>
Source record: 17968

nm5k@wt.net wrote:
> My 16 inch diameter circle loop for MW uses 12 turns.

I know multiple loop antennas are lossy for transmitting.
Are they adequate for receiving because of the AGC dynamic
range in the receiver?
--
73, Cecil http://www.w5dxp.com

645. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 17:11:19 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <888d993a-8305-400f-a536-c29fd320c787@o40g2000prn.googlegroups.com>
Source record: 17969

On Jan 25, 3:51 am, n...@wt.net wrote:
> On Jan 23, 8:45 am, Allodoxaphobia <bit-buc...@config.com> wrote:
>
>
>
> > On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
> > > Ian Jackson wrote:
>
> > >> What about ribbon cable? I've got a fair length of ribbon cable
> > >> (something like 25 wires - the sort used in PCs to connect hard drives
> > >> and the like) put away for a rainy-day loop antenna project. While I
> > >> could make one large loop using all 25 wires for the really low
> > >> frequencies, I'll almost certainly cut it up and make several smaller
> > >> loops with fewer wires for the higher frequencies.
>
> > > Stick with a single wire and relatively few loops. More wire won't make
> > > the loop bigger, just harder to tune.
>
> > I don't think he meant to connect all those wires in parallel.
> > But, it would be a little tedious to connect each wire at one end to its
> > neighbor at the other end (of the loop), and _not_ create an ugly bird's
> > nest at the 'joint'.
>
> > Jonesy
>
> Yep, it's a continuous single wire. If you used ribbon cable, you
> would have to put a cut, and the jumper to jump over to the next
> wire on each turn.. Would be a pain.
> You just take a single length of wire and thread it around
> through the holes until you have the number of turns you need.
> You are moving over a row of holes on each turn.
> The main thing to consider is you end up building the loop
> and deciding the proper number of turns around the
> capacitor you have, not the other way around.
> A double 365pf cap "730 pf total if jumped together" will let
> you be able to tune the whole AM-BC band with most loops.
> My 44 inch per side diamond loop for MW has five turns.
> My 16 inch diameter circle loop for MW uses 12 turns.
> Both are using basically the same cap values.
> I also use a single turn coupling loop that is inside and
> slightly smaller than the main loop. But it does not effect
> tuning, and it's size and spacing from the main loop is fairly
> uncritical. The cap is in parallel with the main loop winding.
> If you use a portable with a built in loop stick antenna,

> you can just couple the radio to the loop and it will
> work. But all my radios require a feed line to the antenna.

I would not be so quick to dismiss the ribbon wire on the basis of capacitance build up ! If you start from the middle of one end by joining
the two center wires together and from then on joining the end to end wires
moving outwards what you have then done is to cancel not only the capacitance build up but also the inductance build up.
You can then unfasten the first step on the center winding and feed it from that point
i.e. center fed
Art

646. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 17:54:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5afc33b2-0138-436d-b50b-077030ee4034@r15g2000prh.googlegroups.com>
Source record: 17970

On Jan 13, 2:44 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:79256191-52fb-4214-b16a-fe49ffac8205@v18g2000pro.googlegroups.com...
>
>
>
> > What diametric ratio must a fractional wave length radiator be to
> > allow contrary current flow thru it's center. ?
> > Diameter / wavelength = 1.0, 0.5, 0.1. 0.001, 0.0001,
> > 0.00001,...?
> > Regards

> > Art

>
> infinite

Is that your final answer
or is your last posting the final answer ?
The clock starts NOW

647. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 18:11:18 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <HP6dnaSm94TWNuHUnZ2dnUVZ8h2dnZ2d@bt.com>
Source record: 17971

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:888d993a-8305-400f-a536-c29fd320c787@o40g2000prn.googlegroups.com...
On Jan 25, 3:51 am, n...@wt.net wrote:
> On Jan 23, 8:45 am, Allodoxaphobia <bit-buc...@config.com> wrote:
>
>
>
> > On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
> > > Ian Jackson wrote:
>
> > >> What about ribbon cable? I've got a fair length of ribbon cable
> > >> (something like 25 wires - the sort used in PCs to connect hard
> > >> drives
> > >> and the like) put away for a rainy-day loop antenna project. While I
> > >> could make one large loop using all 25 wires for the really low
> > >> frequencies, I'll almost certainly cut it up and make several smaller
> > >> loops with fewer wires for the higher frequencies.
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> > > Stick with a single wire and relatively few loops. More wire won't
> > > make
> > > the loop bigger, just harder to tune.
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> > I don't think he meant to connect all those wires in parallel.
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> > neighbor at the other end (of the loop), and _not_ create an ugly bird's
> > nest at the 'joint'.
>
> > Jonesy
>
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> would have to put a cut, and the jumper to jump over to the next
> wire on each turn.. Would be a pain.
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> through the holes until you have the number of turns you need.
> You are moving over a row of holes on each turn.
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> and deciding the proper number of turns around the
> capacitor you have, not the other way around.
> A double 365pf cap "730 pf total if jumped together" will let
> you be able to tune the whole AM-BC band with most loops.
> My 44 inch per side diamond loop for MW has five turns.
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> tuning, and it's size and spacing from the main loop is fairly
> uncritical. The cap is in parallel with the main loop winding.
> If you use a portable with a built in loop stick antenna,
> you can just couple the radio to the loop and it will
> work. But all my radios require a feed line to the antenna.

I would not be so quick to dismiss the ribbon wire on the basis of
capacitance build up ! If you start from the middle of one end by
joining
the two center wires together and from then on joining the end to end
wires
moving outwards what you have then done is to cancel not only the
capacitance build up but also the inductance build up.
You can then unfasten the first step on the center winding and feed it
from that point
i.e. center fed
Art

... but a multi-turn loop in which the self-inductance cancelled wouldn't be
much of a receiving antenna! Production of EMF from the magnetic field
caused by current flowing in the adjacent turns and production of EMF from
the magnetic field component of an incident radio wave rely on the same
principle.

Chris

648. Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 18:15:08 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <07c6e5c8-0309-46c7-95ad-ecc19654b41b@q30g2000prq.googlegroups.com>
Source record: 17972

I came across an old single LPDA TV antenna in the trask. It was pretty much FUBAR except for a coupe of feet of boom matrial and a few insulators. My XYL is into making models and castings and she can make a mold of the insulators easy enough. I was wondering if anyone knew of a good casting material that would be compatable with the requirements to build a single boom LPDA antenna to form the insulators. She is not usually concerned with strength or UV resistance so she couldnt help much on this part.

Jimmie

649. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 18:28:46 UTC
From: dloydlavies@gmail.com
Message-ID: <al9nn49mb6aqdqa0brkebnrhegrsark3m2@4ax.com>
Source record: 17973
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

650. Re: Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 18:31:39 UTC
From: Tad Danley <tdanley@nospamatverizon.net>
Message-ID: <fe2fl.2172$al1.636@nwrddc01.gnilink.net>
Source record: 17974

D. Travis wrote:
>
> Around the low bands so 80 and 40 it seems barely to plough through..

Conditions were outstanding for the CQWW 160 CW
contest this weekend - and for much of the
season too. I have heard several folks who
spend more time on 40 and 80 than I do say that
those bands have not enjoyed the same nice
conditions.

73,

Tad, K3TD

651. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 18:35:29 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <l6cpn4tpru6d0pq0gmi5e33vreqtsubi1g@4ax.com>
Source record: 17975

On Sun, 25 Jan 2009 09:11:19 -0800 (PST), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>what you have then done is to cancel not only the
>capacitance build up but also the inductance build up

AKA Resistor

652. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 18:59:37 UTC
From: Dave <noone@nowhere.com>
Message-ID: <tE2fl.1950$Aw2.1399@nwrddc02.gnilink.net>
Source record: 17976

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:5afc33b2-0138-436d-b50b-077030ee4034@r15g2000prh.googlegroups.com...
On Jan 13, 2:44 pm, "Dave" <no...@nowhere.com> wrote:

>> infinite

>Is that your final answer
>or is your last posting the final answer ?
>The clock starts NOW

that is the same as my last posting... and is still correct!

653. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 19:01:50 UTC
From: Dave <noone@nowhere.com>
Message-ID: <yG2fl.1951$Aw2.1038@nwrddc02.gnilink.net>
Source record: 17977

```
"christofire" <christofire@btinternet.com> wrote in message
news:HP6dnaSm94TWNuHUnZ2dnUVZ8h2dnZ2d@bt.com...
>
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:888d993a-8305-400f-a536-c29fd320c787@o40g2000prn.googlegroups.com...
> On Jan 25, 3:51 am, n...@wt.net wrote:
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>> > On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
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>> > nest at the 'joint'.
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>> You just take a single length of wire and thread it around
>> through the holes until you have the number of turns you need.
>> You are moving over a row of holes on each turn.
>> The main thing to consider is you end up building the loop
>> and deciding the proper number of turns around the
>> capacitor you have, not the other way around.
```

>> A double 365pf cap "730 pf total if jumped together" will let
>> you be able to tune the whole AM-BC band with most loops.
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>> My 16 inch diameter circle loop for MW uses 12 turns.
>> Both are using basically the same cap values.
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>> slightly smaller than the main loop. But it does not effect
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>> uncritical. The cap is in parallel with the main loop winding.
>> If you use a portable with a built in loop stick antenna,
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>> work. But all my radios require a feed line to the antenna.
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> capacitance build up ! If you start from the middle of one end by
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> the two center wires together and from then on joining the end to end
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> moving outwards what you have then done is to cancel not only the
> capacitance build up but also the inductance build up.
> You can then unfasten the first step on the center winding and feed it
> from that point
> i.e. center fed
> Art
>
> ... but a multi-turn loop in which the self-inductance cancelled wouldn't
> be much of a receiving antenna! Production of EMF from the magnetic field
> caused by current flowing in the adjacent turns and production of EMF from
> the magnetic field component of an incident radio wave rely on the same
> principle.
>
> Chris
>
>
>
but thats they master theory behind art's antennas, they are self
destructive.

654. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 19:20:57 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <9be1fb94-2fb1-4e0c-919e-fcb0c4e9974c@w24g2000prd.googlegroups.com>
Source record: 17978

On Jan 25, 12:11 pm, "christofire" <christof...@btinternet.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:888d993a-8305-400f-a536-c29fd320c787@o40g2000prn.googlegroups.com...
> On Jan 25, 3:51 am, n...@wt.net wrote:
>
>
>
> > On Jan 23, 8:45 am, Allodoxaphobia <bit-buc...@config.com> wrote:
>
> > > On Fri, 23 Jan 2009 13:57:40 +0000, dave wrote:
> > > > Ian Jackson wrote:
>
> > > >> What about ribbon cable? I've got a fair length of ribbon cable
> > > >> (something like 25 wires - the sort used in PCs to connect hard
> > > >> drives
> > > >> and the like) put away for a rainy-day loop antenna project. While I
> > > >> could make one large loop using all 25 wires for the really low
> > > >> frequencies, I'll almost certainly cut it up and make several smaller
> > > >> loops with fewer wires for the higher frequencies.
>
> > > > Stick with a single wire and relatively few loops. More wire won't
> > > > make
> > > > the loop bigger, just harder to tune.
>
> > > I don't think he meant to connect all those wires in parallel.
> > > But, it would be a little tedious to connect each wire at one end to its
> > > neighbor at the other end (of the loop), and _not_ create an ugly bird's
> > > nest at the 'joint'.
>
> > > Jonesy
>
> > Yep, it's a continuous single wire. If you used ribbon cable, you
> > would have to put a cut, and the jumper to jump over to the next
> > wire on each turn.. Would be a pain.
> > You just take a single length of wire and thread it around
> > through the holes until you have the number of turns you need.
> > You are moving over a row of holes on each turn.
> > The main thing to consider is you end up building the loop
> > and deciding the proper number of turns around the
> > capacitor you have, not the other way around.
> > A double 365pf cap "730 pf total if jumped together" will let
> > you be able to tune the whole AM-BC band with most loops.
> > My 44 inch per side diamond loop for MW has five turns.

> > My 16 inch diameter circle loop for MW uses 12 turns.
> > Both are using basically the same cap values.
> > I also use a single turn coupling loop that is inside and
> > slightly smaller than the main loop. But it does not effect
> > tuning, and it's size and spacing from the main loop is fairly
> > uncritical. The cap is in parallel with the main loop winding.
> > If you use a portable with a built in loop stick antenna,
> > you can just couple the radio to the loop and it will
> > work. But all my radios require a feed line to the antenna.
>
> I would not be so quick to dismiss the ribbon wire on the basis of
> capacitance build up ! If you start from the middle of one end by
> joining
> the two center wires together and from then on joining the end to end
> wires
> moving outwards what you have then done is to cancel not only the
> capacitance build up but also the inductance build up.
> You can then unfasten the first step on the center winding and feed it
> from that point
> i.e. center fed
> Art
>
> ... but a multi-turn loop in which the self-inductance cancelled wouldn't be
> much of a receiving antenna! Production of EMF from the magnetic field
> caused by current flowing in the adjacent turns and production of EMF from
> the magnetic field component of an incident radio wave rely on the same
> principle.
>
> Chris

As an experimenter I am inclined to give things a try. If everything
can be solved by the brain while sitting on the sofa then it would be
a waste of time! As a recieving antenna all you would need is wire
that has distributed loads and ZERO lumped loads, so why not just get
rid of the lumped loads via cancellation?
The complications that you bring up, I suggest, would be applicable to
transmitting antennas only
thus I feel experimentation is required before looking for a reason to
discard.
Sometimes an innocent experiment provides a long looked for answer to
the most complicated
question

655. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 21:03:25 UTC
From: dloydlavies@hotmail.com
Message-ID: <pskpn4t9tsa6qq4lq5vtvhedcaum16mjmd@4ax.com>
Source record: 17979
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Wed, 31 Oct 2007 22:37:01 -0400, kb9rqz@hotmail.com wrote:

>On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
><assemblywizard@gmail.com> wrote:
>
>>K4YZ wrote:
>>> Nope.
>>>
>>> The IP Address and servers are complete proof that I do NOT share
>>> any annonymous character's "address".
>>>
>>> Sounds like Lennie, to me....
>>>
>>> Steve, K4YZ
>>>
>>
>>To anyone with even an elementary understanding of anonymous proxies,
>>anonymous remailers, zombie backdoors, etc., the ability to change ones
>>IP address and header details is simplistic, indeed, with little time
>>spent anyone can appear to be "coming" from anywhere in the world.
>>
>>You waste my time. Worse, you think us all idiots here. You remind me
>>of the "street smart" prosecutors and defense attorneys who stack jurys
>>with members of little or no technical knowledge and then call in
>>"expert witnesses" and propose arguments of technical details to boggle
>>their minds.
>>
>>You have only proven that you, yourself are either ignorant to such
>>technical details, or else you are indeed street smart, I favor the
>>latter in this case (however, if you in the dark about such things, 15
>>minutes on google will enlighten you.)
>>
>>JS
>
>"one useless man is disgrace 2 become a law firm 3 or more become a congress"
>adams
>
>woger you are a Congress all in your own head
>
>http://kb9rqz.bravejournal.com/
>altopia is never used by KB9RQZ
>nor is Konstans@hotmail.com ever udsed on the usenet from anywhere but google
>

>posts from these sorucees are fakes
>but till at least terranews is back running well I might use anyserver that comes to hand
>
>and get ou the newly recovered KB9RQZ.blogspot.com as well
>
>G

656. Re: Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 21:03:55 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <1t4fl.17260$aG1.9291@newsfe25.iad>
Source record: 17980

"D. Travis" <not@here.com> wrote in message
news:497c4ae4$0$19069$6d4158fb@reader.xsnews.nl...
>
> Around the low bands so 80 and 40 it seems barely to plough through..
> No sunspots or what ?
> What prediction sites is relighable ?
> Have you heard the event on the magnethosphere ? I have.

Few sunspots this year. http://www.hamradioresources.com/hamradio is one
possibility for a prediction site. The "Space Weather" link, second box
from the left, is relevant. See the tutorial, too.

Also, the following is quoted from "The ARRL Letter":

<quote>
For more information concerning radio propagation,
visit the ARRL Technical Information Service Propagation page
<http://www.arrl.org/tis/info/propagation.html>. To read this week's
Solar Report in its entirety, check out the W1AW Propagation Bulletin
page <http://www.arrl.org/w1aw/prop/>.
<end quote>

Don't know what "event" you heard. Details? Web link?

I don't do much 160 except for local chitchat. (I'm in SoCal.)
80 has been hopping. Quite a bit of long skip, including coast-to-coast
action and Europe from the East Coast, I hear. Running power is a big help,
more so than the higher bands, I think.
40 seems to be in the doldrums.
20 has occasional good days. I heard Alaska working Alabama today. During
most days, 800 - 1200 mile paths are common for me. Lately around sunset 20
has been going off like it's being switched off, quite different from last
summer.
I don't have a decent antenna for 15.
10 might as well be on Mars lately, although some folks claim to have
enjoyed openings. Not me, not lately.

I hope this helps.

657. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 21:15:12 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <DD4fl.17348$aG1.7257@newsfe25.iad>
Source record: 17981

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:9be1fb94-2fb1-4e0c-919e-fcb0c4e9974c@w24g2000prd.googlegroups.com...

< snip >

>As an experimenter I am inclined to give things a try. If everything
>can be solved by the brain while sitting on the sofa then it would be
>a waste of time! As a recieving antenna all you would need is wire
>that has distributed loads and ZERO lumped loads, so why not just get
>rid of the lumped loads via cancellation?

Resonance? I think we already invented that.

658. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 22:27:33 UTC
From: nm5k@wt.net
Message-ID: <7694abb0-4206-44e4-9124-a7ab3522fc4c@r15g2000prd.googlegroups.com>
Source record: 17982

On Jan 25, 9:52 am, Cecil Moore <nos...@w5dxp.com> wrote:
> n...@wt.net wrote:
> > My 16 inch diameter circle loop for MW uses 12 turns.
>
> I know multiple loop antennas are lossy for transmitting.
> Are they adequate for receiving because of the AGC dynamic
> range in the receiver?
> --
> 73, Cecil http://www.w5dxp.com

I'm not sure how the AGC comes into play here..
The 16 inch antenna provides plenty enough signal,
even with no preamp used. You could turn the AGC on
or off, wouldn't really matter. No different than any
other antenna you might connect in that regard.
They are lossy for transmitting, but on the MW bands
you have so much excess signal level it's not an
issue as far as receiving. Note the ferrite bar antenna,
which is even more lossy than the open loops I use.
It has no problem providing enough signal for a
cheap portable radio.
You might be surprised just how much level you can
get from a tuned small loop on the low bands.
As an example, that 16 inch loop provides more
signal than the whip on a car. I once tried it with a
delco radio in my truck. I hooked the loop up to it,
and it was as hot as a firecracker vs the standard
whip.
The catch is the system is very high Q, and requires
constant tuning of the cap as you change frequency.

659. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 22:37:06 UTC
From: nm5k@wt.net
Message-ID: <88479c04-e550-45ac-860b-3feb5b792866@r41g2000prr.googlegroups.com>
Source record: 17983

On Jan 25, 11:11 am, Art Unwin <ArthurUn...@gmail.com> wrote:

>
> I would not be so quick to dismiss the ribbon wire on the basis of
> capacitance build up !

I would not be so quick to assume I dismissed ribbon wire
on the basis of capacitance buildup. Where do you read
any such thing in what I posted?
Has nothing to do with why I wouldn't use ribbon cable.
Using a ribbon cable would be a pain in the arse.
You would have to cut and jumper each turn to the
next turn. Makes more sense just to use a single
wire and thread it through the holes, row by row
if multiple turns are needed.

660. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-25 23:01:01 UTC
From: nm5k@wt.net
Message-ID: <d2a2d5b1-963b-435a-9d97-0dff66085158@z28g2000prd.googlegroups.com>
Source record: 17984

On Jan 25, 9:46 am, Cecil Moore <nos...@w5dxp.com> wrote:
> n...@wt.net wrote:
> > I'd have to make another one to compare
> > tilting it vertical, vs horizontal.
>
> Again, I'm not talking about any loop in air. I'm only
> one example of a ferrite rod loop antenna as exists in
> AM radios. Those rods are mounted horizontal within the
> radio while the polarization of the transmitted signal
> is vertical.
>
I realize that, but I guess you missed the point.
The point being, I'm not so sure it wouldn't be
responding to mostly vertical polarization no
matter how the antenna was oriented,
unless maybe it was flipped on it's side.
The rods are mounted horizontal, but are
receiving a vertical signal off the ends.
You seem to imply a difference in pattern
using a ferrite bar, vs not using one.
I'm not so sure I agree with that without
more checking.
But like I say, I'd have to rig up some test
dummies to refresh myself.
But.. as I remember from the past versions I
made, the ones I made with air cores seemed
to act exactly the same as the ones with a
ferrite bar as far as pattern. IE: both are
bi-directional off each end and both are
responding to a vertical signal.

661. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 01:06:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <s08fl.14548$YU2.1123@nlpi066.nbdc.sbc.com>
Source record: 17985

nm5k@wt.net wrote:
> The rods are mounted horizontal, but are
> receiving a vertical signal off the ends.

They don't receive worth a darn off the ends.
The don't receive worth a darn in a vertical
position. They are most effective when positioned
horizontal and broadside to the transmitting
antenna. One can take an AM radio, tune it to a
fringe station and run the test for oneself.
--
73, Cecil http://www.w5dxp.com

662. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 01:28:22 UTC
From: dloydlavies@hotmail.com
Message-ID: <ld4qn4lct69lui8fk619thhrtujc0opps5@4ax.com>
Source record: 17986
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

663. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 01:46:28 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <VB8fl.19029$B01.9066@newsfe13.iad>
Source record: 17987

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:07c6e5c8-0309-46c7-95ad-ecc19654b41b@q30g2000prq.googlegroups.com...
>I came across an old single LPDA TV antenna in the trask. It was
> pretty much FUBAR except for a coupe of feet of boom matrial and a few
> insulators. My XYL is into making models and castings and she can make
> a mold of the insulators easy enough. I was wondering if anyone knew
> of a good casting material that would be compatable with the
> requirements to build a single boom LPDA antenna to form the
> insulators. She is not usually concerned with strength or UV
> resistance so she couldnt help much on this part.

Epoxy and polyester resins come to mind. If you are rebuilding the TV antenna and not adding significant weight, these should work well. Use the low viscosity resins sold in quarts, and not epoxy glues.

For added strength, consider adding chopped fiberglass strands. For reduced weight, glass microballoons may be added to the resins. They are extremely light with a specific gravity of 0.18 to 0.25 depending on the manufacturer. Phenolic microballoons are also available.

For ultraviolet protection, a small amount of titanium dioxide may be added (1 to 5%), but the microballoons will do a fair job alone. Painting the finished insulators with acrylic paint (Krylonï¿½) will also provide good UV resistance.

Many marine supply stores carry these resins, the chopped fiberglass, and the microballoons. Be extra careful with the polyester catalyst (typically methyl-ethyl-ketone peroxide) as it is extremely damaging to the eyes.

Good luck with your project.

73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net [transpose the digits to reply]

664. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 02:31:31 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <gg9fl.18808$Ws1.14975@nlpi064.nbdc.sbc.com>
Source record: 17988

NoSPAM wrote:
> "JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
> news:07c6e5c8-0309-46c7-95ad-ecc19654b41b@q30g2000prq.googlegroups.com...
>> I came across an old single LPDA TV antenna in the trask. It was
>> pretty much FUBAR except for a coupe of feet of boom matrial and a few
>> insulators. My XYL is into making models and castings and she can make
>> a mold of the insulators easy enough. I was wondering if anyone knew
>> of a good casting material that would be compatable with the
>> requirements to build a single boom LPDA antenna to form the
>> insulators. She is not usually concerned with strength or UV
>> resistance so she couldnt help much on this part.
>
> Epoxy and polyester resins come to mind. If you are rebuilding the TV
> antenna and not adding significant weight, these should work well. Use
> the low viscosity resins sold in quarts, and not epoxy glues.
>
> For added strength, consider adding chopped fiberglass strands. For
> reduced weight, glass microballoons may be added to the resins. They
> are extremely light with a specific gravity of 0.18 to 0.25 depending on
> the manufacturer. Phenolic microballoons are also available.
>
> For ultraviolet protection, a small amount of titanium dioxide may be
> added (1 to 5%), but the microballoons will do a fair job alone.
> Painting the finished insulators with acrylic paint (Krylonï¿½) will also
> provide good UV resistance.
>
> Many marine supply stores carry these resins, the chopped fiberglass,
> and the microballoons. Be extra careful with the polyester catalyst
> (typically methyl-ethyl-ketone peroxide) as it is extremely damaging to
> the eyes.
>
> Good luck with your project.
>
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnitz84@charter.net [transpose the digits to reply]

Where do you buy the titanium dioxide?
73,
Tom Donaly, KA6RUH

665. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 03:08:43 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <s09qn49pr6dpdscck5uvv80igj9f36ga20@4ax.com>
Source record: 17989

On Sun, 25 Jan 2009 10:15:08 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I came across an old single LPDA TV antenna in the trask. It was
>pretty much FUBAR except for a coupe of feet of boom matrial and a few
>insulators. My XYL is into making models and castings and she can make
>a mold of the insulators easy enough. I was wondering if anyone knew
>of a good casting material that would be compatable with the
>requirements to build a single boom LPDA antenna to form the
>insulators. She is not usually concerned with strength or UV
>resistance so she couldnt help much on this part.

Nice idea, but all of my custom VHF yagi antenna insulators were
machined from black Delrin
<http://en.wikipedia.org/wiki/Acetal_resin>
or the cheaper Nylon 66. However, they were all mobile transmitter
hunting antennas where UV protection and environmental survivability
were not an issue. They only had to be more rugged than most yagis so
that when the antenna plowed into an overhanging tree branch or road
sign, the branch or sign would break, not the antenna. Delrin should
be quite good, but rather expensive. Nylon sucks as it absorbs
moisture and falls apart in the sun. I used these simply because I
have a fairly good supply of both.

I've never tried to mold an insulator, but I can speculate on how it
might be done. In my wasted youth, I repaired my surfboard with
various toxic and noxious epoxies that I suspect are suitable. You
can purchase fiberglass matting and epoxy mix at any marine supply or
surf shop. Instructions are on the can or the internet. Machine a
suitable positive insulator, make a negative mold out of plaster, cram
it with epoxy saturated fiberglass stiffener, and pour in the
remaining epoxy mix (or something like that). If ambitious, throw in
some additional reinforcing such as rusty nails, barbed wire, scrap
metal, or broken glass rod. As long as they protrude the surface, the
presence of metal should not have much of an electrical effect. If
you want to practice without the mess, try using Bondo or other
automotive dent filler. It will be substantially more brittle but is
much easier on the nose and eyes.

You mention that your wife is into "casting". I'll assume that
doesn't mean fly casting as in fishing. However, there are a wide
variety of other forms of casting including operating a small foundry.
I've done this at home, amazingly without burning down the house:
<http://www.backyardmetalcasting.com>
I've made some unobtainable auto parts this way. Somehow, I don't

visualize your wife doing all this, but it's possible. There's also
sand casting, investment casting, plaster casting, lost wax casting,
and so on. What manner of casting does she do?

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

666. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 03:30:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <v9nv46-b7a.ln1@mail.specsol.com>
Source record: 17990

JIMMIE <JIMMIEDEE123@yahoo.com> wrote:
> I came across an old single LPDA TV antenna in the trask. It was
> pretty much FUBAR except for a coupe of feet of boom matrial and a few
> insulators. My XYL is into making models and castings and she can make
> a mold of the insulators easy enough. I was wondering if anyone knew
> of a good casting material that would be compatable with the
> requirements to build a single boom LPDA antenna to form the
> insulators. She is not usually concerned with strength or UV
> resistance so she couldnt help much on this part.
>
> Jimmie

I think before I went through that hassle I would just buy some solid
fiberglass rod and make them out of that.

www.mgs4u.com as one example sells 8 foot lengths of half inch rod
for $6.00.

--
Jim Pennino

Remove .spam.sux to reply.

667. Re: TV 4:1 BALUN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 03:55:35 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <Dmafl.990$ff7.539@bignews7.bellsouth.net>
Source record: 17991

Jimmie,
I have tried and used these tv baluns so I could run 300-ohm cable to my antenna. BUT I only ran about 5 watts.
I used one on both ends of a 100-ft run of 300-ohm cable (so as to reduce losses) . (And I used it on 10 meters, not 2 meters)
I later wound my own impedence-matching 4-to-1 baluns to handle a full 100 watts.
You're on the right track of having fun with transmission lines, impedence matching, and antenna building - keep it up.
W4PMJ - hal

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message news:6196b13c-f991-4083-966e-efb558fa0e43@i24g2000prf.googlegroups.com...
>I was considering using a TV type 4:1 balun on 2 meters. Does anyone
> know how much power these can handle? I remember a guy doing this when
> I was a teenager(long ago) but I think the baluns were built a little
> stouter back then than they are now.
>
> Jimmie

668. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 04:16:20 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <4Gafl.997$ff7.634@bignews7.bellsouth.net>
Source record: 17992

Jimmie,
Another 2 cents worth - you could try something like "Bondo" which is resin-based body filler. - Pick it up at Auto-Zone or other Auto parts place. But well-coated wooden blocks may work ok as well. I would try to find a way to use a PVC fitting to save money.
Hal W4PMJ

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message news:07c6e5c8-0309-46c7-95ad-ecc19654b41b@q30g2000prq.googlegroups.com...
>I came across an old single LPDA TV antenna in the trask. It was
> pretty much FUBAR except for a coupe of feet of boom matrial and a few
> insulators. My XYL is into making models and castings and she can make
> a mold of the insulators easy enough. I was wondering if anyone knew
> of a good casting material that would be compatable with the
> requirements to build a single boom LPDA antenna to form the
> insulators. She is not usually concerned with strength or UV
> resistance so she couldnt help much on this part.
>
> Jimmie

669. Re: Homebrew insulators [titanium dioxide pigment]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 05:54:19 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <decfl.39414$8a4.16969@newsfe08.iad>
Source record: 17993

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
news:gg9fl.18808$Ws1.14975@nlpi064.nbdc.sbc.com...
> NoSPAM wrote:
>> For ultraviolet protection, a small amount of titanium dioxide may be
>> added (1 to 5%), but the microballoons will do a fair job alone.
>> Painting the finished insulators with acrylic paint (Krylonï¿½) will also
>> provide good UV resistance.

> Where do you buy the titanium dioxide?
> 73,
> Tom Donaly, KA6RUH

I was sent 10 pounds from a friend at DuPont, one of the larger
manufacturers of titanium dioxide. For small quantities, I would suggest
contacting a local paint manufacturer, or artist supply store. The pigment
is used in many ultra-bright white formulations. Note that titanium
dioxide has a high dielectric constant between 85 and 110 depending on the
ratio of rutile to anatase. So to minimize detuning effects of the
insulators, use them only at low impedance points of the antenna.

73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net [transpose the digits to reply]

670. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 06:11:01 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <Wtcfl.39415$8a4.3316@newsfe08.iad>
Source record: 17994

"Hal Rosser" <hmrosser@bellsouth.net> wrote in message
news:4Gafl.997$ff7.634@bignews7.bellsouth.net...
> Jimmie,
> Another 2 cents worth - you could try something like "Bondo" which is
> resin-based body filler. - Pick it up at Auto-Zone or other Auto parts
> place. But well-coated wooden blocks may work ok as well. I would try to
> find a way to use a PVC fitting to save money.
> Hal W4PMJ

While Bondo is based on an unsaturated polyester resin, it uses lots of
styrene and filler materials. Both destroy the inherent strength of the
polymerized polyester. Stick with a high quality boating resins and use
fiberglass for strength.

73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter/net [transpose the digits to reply]

671. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 06:40:29 UTC
From: dloydlavies@hotmail.com
Message-ID: <qmmqn4ddk8ubscm9oa9oep072c0nfpi7qc@4ax.com>
Source record: 17995
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

672. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 07:29:58 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <28a9d0af-5d70-445f-8a59-e05457b66328@w1g2000prk.googlegroups.com>
Source record: 17996

On Jan 25, 10:08 pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sun, 25 Jan 2009 10:15:08 -0800 (PST), JIMMIE
>
> <JIMMIEDEE...@YAHOO.COM> wrote:
> >I came across an old single LPDA TV antenna in the trask. It was
> >pretty much FUBAR except for a coupe of feet of boom matrial and a few
> >insulators. My XYL is into making models and castings and she can make
> >a mold of the insulators easy enough. I was wondering if anyone knew
> >of a good casting material that would be compatable with the
> >requirements to build a single boom LPDA antenna to form the
> >insulators. She is not usually concerned with strength or UV
> >resistance so she couldnt help much on this part.
>
> Nice idea, but all of my custom VHF yagi antenna insulators were
> machined from black Delrin
> <http://en.wikipedia.org/wiki/Acetal_resin>
> or the cheaper Nylon 66. However, they were all mobile transmitter
> hunting antennas where UV protection and environmental survivability
> were not an issue. They only had to be more rugged than most yagis so
> that when the antenna plowed into an overhanging tree branch or road
> sign, the branch or sign would break, not the antenna. Delrin should
> be quite good, but rather expensive. Nylon sucks as it absorbs
> moisture and falls apart in the sun. I used these simply because I
> have a fairly good supply of both.
>
> I've never tried to mold an insulator, but I can speculate on how it
> might be done. In my wasted youth, I repaired my surfboard with
> various toxic and noxious epoxies that I suspect are suitable. You
> can purchase fiberglass matting and epoxy mix at any marine supply or
> surf shop. Instructions are on the can or the internet. Machine a
> suitable positive insulator, make a negative mold out of plaster, cram
> it with epoxy saturated fiberglass stiffener, and pour in the
> remaining epoxy mix (or something like that). If ambitious, throw in
> some additional reinforcing such as rusty nails, barbed wire, scrap
> metal, or broken glass rod. As long as they protrude the surface, the
> presence of metal should not have much of an electrical effect. If
> you want to practice without the mess, try using Bondo or other
> automotive dent filler. It will be substantially more brittle but is
> much easier on the nose and eyes.
>
> You mention that your wife is into "casting". I'll assume that
> doesn't mean fly casting as in fishing. However, there are a wide
> variety of other forms of casting including operating a small foundry.
> I've done this at home, amazingly without burning down the house:

> <http://www.backyardmetalcasting.com>
> I've made some unobtainable auto parts this way. Somehow, I don't
> visualize your wife doing all this, but it's possible. There's also
> sand casting, investment casting, plaster casting, lost wax casting,
> and so on. What manner of casting does she do?
>
> --
> Jeff Liebermann   je...@cruzio.com
> 150 Felker St #D   http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann   AE6KS   831-336-2558

Resins and plaster. Its something she learned to do in college and
once in a while she will make some dust collectors to give as gifts or
showsomeone else how to do it.

I always wanted tp try may hand at casing Al. Maybe one day when I
move out in the boonies I will get a chance. My father in law did it
but I think he got rid of all his equipment before he died.Hemade
mostly ornamental stuff and did a few demonstrations.

I think I will giveethe bondo a try. I have nearly a quart left over
from fixing a ding on the truck. I think it has some fibergass already
mixed in.

Jimmie

673. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 07:42:13 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <71e52ee5-a926-442e-9cb2-144667fa0528@n33g2000pri.googlegroups.com>
Source record: 17997

On Jan 25, 5:37 pm, n...@wt.net wrote:
> On Jan 25, 11:11 am, Art Unwin <ArthurUn...@gmail.com> wrote:
>
>
>
> > I would not be so quick to dismiss the ribbon wire on the basis of
> > capacitance build up !
>
> I would not be so quick to assume I dismissed ribbon wire
> on the basis of capacitance buildup. Where do you read
> any such thing in what I posted?
> Has nothing to do with why I wouldn't use ribbon cable.
> Using a ribbon cable would be a pain in the arse.
> You would have to cut and jumper each turn to the
> next turn. Makes more sense just to use a single
> wire and thread it through the holes, row by row
> if multiple turns are needed.

I did this with ribbon cable once and it is actually pretty easy to
do. I couldnt have taken more than 15 minutes to fabticate an 8 turn
coil.

Jimmie

674. Homebrew, anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 13:28:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <3Uifl.14188$yr3.6541@nlpi068.nbdc.sbc.com>
Source record: 17998

http://www.foxnews.com/story/0,2933,482264,00.html
--
73, Cecil http://www.w5dxp.com

675. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 14:38:16 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <jt-dnSlvDfVAV-DUnZ2dnUVZ8tPinZ2d@bt.com>
Source record: 17999

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:9be1fb94-2fb1-4e0c-919e-fcb0c4e9974c@w24g2000prd.googlegroups.com...
On Jan 25, 12:11 pm, "christofire" <christof...@btinternet.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
8><

> I would not be so quick to dismiss the ribbon wire on the basis of
> capacitance build up ! If you start from the middle of one end by
> joining
> the two center wires together and from then on joining the end to end
> wires
> moving outwards what you have then done is to cancel not only the
> capacitance build up but also the inductance build up.
> You can then unfasten the first step on the center winding and feed it
> from that point
> i.e. center fed
> Art
>
> ... but a multi-turn loop in which the self-inductance cancelled wouldn't
> be
> much of a receiving antenna! Production of EMF from the magnetic field
> caused by current flowing in the adjacent turns and production of EMF from
> the magnetic field component of an incident radio wave rely on the same
> principle.
>
> Chris

As an experimenter I am inclined to give things a try. If everything
can be solved by the brain while sitting on the sofa then it would be
a waste of time! As a recieving antenna all you would need is wire
that has distributed loads and ZERO lumped loads, so why not just get
rid of the lumped loads via cancellation?
The complications that you bring up, I suggest, would be applicable to
transmitting antennas only

That principle is Faraday's Law which is fully reciprocal, so no, this is
equally applicable to receiving and transmitting antennas.

I hope 'EMF' isn't being misread as anything other than its original meaning
in this context, that is, electro-motive force (the non-ambiguous form of
'voltage').

Chris

676. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 14:59:53 UTC
From: nm5k@wt.net
Message-ID: <2e3c3034-6dbc-4061-a0e0-87fbe1acab1a@w1g2000prm.googlegroups.com>
Source record: 18000

On Jan 25, 7:06 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> n...@wt.net wrote:
> > The rods are mounted horizontal, but are
> > receiving a vertical signal off the ends.
>
> They don't receive worth a darn off the ends.
> The don't receive worth a darn in a vertical
> position. They are most effective when positioned
> horizontal and broadside to the transmitting
> antenna. One can take an AM radio, tune it to a
> fringe station and run the test for oneself.
> --
> 73, Cecil http://www.w5dxp.com

I looked into some of those. And it does change
the pattern when you insert the rod into a coil.
I hadn't realized that. I was thinking the directional
properties stayed the same, with the rod only adding
extra inductance to tune a lower frequency.
I may have to try one of those to compare with
the other loops I use. I saw a few places that
sell large plastic coated rods for this purpose.

677. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 16:15:39 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4529fac2-7612-4314-8820-9a7fdefda9fa@o4g2000pra.googlegroups.com>
Source record: 17901

On Jan 26, 8:38 am, "christofire" <christof...@btinternet.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:9be1fb94-2fb1-4e0c-919e-fcb0c4e9974c@w24g2000prd.googlegroups.com...
> On Jan 25, 12:11 pm, "christofire" <christof...@btinternet.com> wrote:> "Art Unwin"
<ArthurUn...@gmail.com> wrote in message
>
> 8><
>
>
>
> > I would not be so quick to dismiss the ribbon wire on the basis of
> > capacitance build up ! If you start from the middle of one end by
> > joining
> > the two center wires together and from then on joining the end to end
> > wires
> > moving outwards what you have then done is to cancel not only the
> > capacitance build up but also the inductance build up.
> > You can then unfasten the first step on the center winding and feed it
> > from that point
> > i.e. center fed
> > Art
>
> > ... but a multi-turn loop in which the self-inductance cancelled wouldn't
> > be
> > much of a receiving antenna! Production of EMF from the magnetic field
> > caused by current flowing in the adjacent turns and production of EMF from
> > the magnetic field component of an incident radio wave rely on the same
> > principle.
>
> > Chris
>
> As an experimenter I am inclined to give things a try. If everything
> can be solved by the brain while sitting on the sofa then it would be
> a waste of time! As a recieving antenna all you would need is wire
> that has distributed loads and ZERO lumped loads, so why not just get
> rid of the lumped loads via cancellation?
> The complications that you bring up, I suggest, would be applicable to
> transmitting antennas only
>
> That principle is Faraday's Law which is fully reciprocal, so no, this is
> equally applicable to receiving and transmitting antennas.
>
> I hope 'EMF' isn't being misread as anything other than its original meaning

> in this context, that is, electro-motive force (the non-ambiguous form of
> 'voltage').
>
> Chris

Hi Chris,
I need a bit more with respect to your response in more layman terms

When a multi turn helix is generated it can be used for both
transmitting and receiving.
When generating two helix antennas where one is contra wound and both
are connected at the top
you are saying that it will NOT be suitable for receiving !
We know by common use that the single helix is good for transmitt and
receive . So what exactly
does the addition of the contra winding do to prevent the combination
from receiving?
Looking forward to your take on the question.
Best regards
Art

678. Re: Homebrew, anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 16:32:08 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2b9947e6-44f9-449e-8626-ec96e89570e0@v18g2000pro.googlegroups.com>
Source record: 17902

On Jan 26, 7:28 am, Cecil Moore <nos...@w5dxp.com> wrote:
> http://www.foxnews.com/story/0,2933,482264,00.html
> --
> 73, Cecil http://www.w5dxp.com

Cecil,
Did you notice the article on levitation referred to on that very same
page?
Industry is catching up on ham radio
Art

679. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 16:36:06 UTC
From: richardharrison@webtv.net
Message-ID: <23614-497DE676-6954@storefull-3172.bay.webtv.net>
Source record: 17903

Cecil wrote:
"Richard, what`s the MFJ part number?"
Not sure as I don`t have a catalog but searched on "MFJ ferrite loop antenna" which yielded several responses including books, web sites, and a Radio Nederland 'build your own loop" instruction page, several of these mentioned MFJ 261 if my memory is correct. these responses assured me there was at least one MFJ ferrite loopstick offered before I posted. The right old radio would probably yield both variable capacitor and loopstick for a portable directional BCB antenna.

Best regards, Richard Harrison, KB5WZI

680. Re: improve S/N for AM car radio by a factor of 2...5...10?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 16:41:50 UTC
From: richardharrison@webtv.net
Message-ID: <23615-497DE7CE-2414@storefull-3172.bay.webtv.net>
Source record: 17904

I searched again on MFJ BCB ferrite loop antenna. The number immediately appeared and was 1026 so my memory must have been wrong. It was not 261.

Best regards, Richard Harrison, KB5WZI

681. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 17:29:48 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <vhrrn4loln1f2k62doh0kj6ibjn65k8ao2@4ax.com>
Source record: 17905

On Sun, 25 Jan 2009 23:29:58 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I think I will giveethe bondo a try. I have nearly a quart left over
>from fixing a ding on the truck. I think it has some fibergass already
>mixed in.

I mentioned Bondo only so that you could practice before switching to
epoxy resin and fiberglass reinforcing. Bondo is brittle and will
crack.

However, the polyester resin she is currently using might work with
the addition of some stiffener. Get some fiberglass matting and try
using her resin to mold an insulator. The stuff is not really
suitable for electrical or outdoor use, but might be worth testing
since you have some. Remember, the strength is in the fiberglass
matting or rod stiffeners, not in the resin.
<http://www.tapplastics.com/shop/product.php?pid=75>

If it doesn't work, at least you'll have the most colorful antenna
insulators in the neighborhood. Maybe imbed some LED's or neon lamps
for a Christmas tree effect.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

682. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 18:16:22 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <jlSdnWB2QoZmYODUnZ2dnUVZ8rOdnZ2d@bt.com>
Source record: 17906

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:4529fac2-7612-4314-8820-9a7fdefda9fa@o4g2000pra.googlegroups.com...
On Jan 26, 8:38 am, "christofire" <christof...@btinternet.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message

8><

Hi Chris,
I need a bit more with respect to your response in more layman terms

When a multi turn helix is generated it can be used for both
transmitting and receiving.
When generating two helix antennas where one is contra wound and both
are connected at the top
you are saying that it will NOT be suitable for receiving !
We know by common use that the single helix is good for transmitt and
receive . So what exactly
does the addition of the contra winding do to prevent the combination
from receiving?
Looking forward to your take on the question.
Best regards
Art

OK. The term 'helix' is most often applied to the travelling-wave antenna invented by John Kraus, often used at VHF and above, which generates or receives a circularly-polarised wave predominantly in the direction of its axis. It is also used in 'normal-mode helix' for the type of monopole element often found on walkie talkies, that generates and receives a linearly-polarised wave. Both of these are connected to electronics at one end only.

The discussion was about loop antennas having one or more turns, with both ends of the winding connected to electronics. This construction can also be called a solenoid, but it would provoke confusion to call it a 'helix'.

When an alternating current is passed through a solenoid it generates a magnetic field, H, through its centre and around it - the transmitting case. When a solenoid is placed in an alternating magnetic field, if any lines of magnetic force pass through its winding it will generate an electro-motive force (EMF) from which current can be drawn to operate a receiver - the receiving case.

In the transmitting case the physical characteristics (described by the intrinsic impedance) of 'space' - the air surrounding the solenoid - cause an electric field, E, to be generated from the alternating magnetic field, in phase with the H field that caused it (viz. the intrinsic impedance of

space is real not complex) and together these in-phase E and H components give rise to an electromagnetic wave. A fraction of the input power will be radiated away from the solenoid in that wave, in directions where their vector cross-product ExH is not zero. The field strength of either the E or H component of the radiated wave will decay linearly with increasing distance.

You can find a good account of this process in books like 'Antennas' by the late John Kraus but it isn't possible to get very far without use of mathematics. Chapter 7 of 'Antennas for all applications' by Kraus and Marhefka, the 2002 edition, covers all this in greater detail and would be worth obtaining if you're interested.

The 'sense' (i.e. clockwise/anticlockwise with respect to some datum) of the winding of a solenoid, and the direction of the current applied, affect the polarity of the magnetic field it produces, and vice versa for the receiving case. Consequently, the phase with respect to time of the alternating H field (and the alternating E-field component of the radiated electromagnetic wave) depend on the 'sense' of the winding, but the polarisation of the radiated wave depends on the alignment of the axis of the solenoid. By convention, 'polarisation' is the angular direction of the E field in the outgoing wave, which is perpendicular to the H-field component, and both are perpendicular to the direction of propagation, so solenoid with a horizontal axis radiates a vertically-polarised (VP) radio wave - and receives best from a VP wave; the ferrite-rod-in-a-broadcast-receiver case.

Back to my original point: if part of the winding of the solenoid is wound in the opposite sense to the rest of the winding then its contribution to the generated H field, or the EMF on receiving, will oppose the contribution from the other part of the winding. If the winding has half in each 'sense', connected in series (like a non-inductive wire-wound resistor), then it will not generate an H field or develop an EMF from an incident H field, so it will not work as a transmitting or receiving antenna ... for the reasons outlined above.

Enough?

Chris

683. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 19:35:07 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b1cd1774-29e2-412f-9fce-3baa406568fa@z27g2000prd.googlegroups.com>
Source record: 17907

On Jan 26, 12:16 pm, "christofire" <christof...@btinternet.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
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> news:4529fac2-7612-4314-8820-9a7fdefda9fa@o4g2000pra.googlegroups.com...
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> 'sense', connected in series (like a non-inductive wire-wound resistor),
> then it will not generate an H field or develop an EMF from an incident H
> field, so it will not work as a transmitting or receiving antenna ... for
> the reasons outlined above.
>
> Enough?
>
> Chris

Chris
First of all thank you very much for the effort that you placed in
your response.
It really what I expected from you after reading your profile ie the
anbsence of derision.
Now I am not fully convinced with your response as the rest of the

newsgroup already suspect
Coming from a different direction with respect to mathematics, when adding a timevarying field
to a Gaussian field it equates in every way to the laws of Maxwell. Both of these laws I consider
as an absolute truth. The above therefore states that the presence of particles is undeniable in the generation of RF communication. Because of the specificity of a state of equilibrium in a Gaussian field the following can be stated. A radiator or array can be any size, shape or varied elevation
.....AS LONG AS IT IS IN A STATE OF EQUILIBRIUM
From the above ground rules which is confirmed by Maxwells laws the single winding of a wire
is NOT in equilibrium unless the lumped properties are cancelled which leaves a structure that is in equilibrium ala wire that is conductive and with no other properties other that he addition of distributed loads that are common from a conductor.
Your response is based on the generation of fields without which the radiator cannot receive by incoming waves from a transmitter, Where as my response is based on the basis of particles impinging on a receive antenna to create oscillation.
The biggest difference is the interpretation of a tank circuit(a circuit in equilibrium) where in the perfect case of zero friction your aproach would define this operation as a zero tx/rc element
My interpretation is that it cannot be zero friction even if the distributed components were friction free because of the presence of particles, which must be impelled by force to another radiator to create oscillation.
So to sum up
Your aproach is from dissipating fields to provide communication and mine is from non dissipating fields that dislodge particles as it rotates to and from the distributed loads using both as energy retainers..
As I have stated before, this is a presently a widely known method in a macro re enactment of salvage processes that sorts materials by directional magnetic field thrusts provided by eddy fields
I do need more time to study your response to see the difference between the field aproach and the particle aproach tho with my present circumstances I may not be able to determine.
Again, thankyou for your gentlemanly response, a rarity in this particular newsgroup.
Regards
Art

684. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 19:59:14 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <8oqdnVvmzeGKi-PUnZ2dnUVZ8rWdnZ2d@bt.com>
Source record: 17908

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:b1cd1774-29e2-412f-9fce-3baa406568fa@z27g2000prd.googlegroups.com...
On Jan 26, 12:16 pm, "christofire" <christof...@btinternet.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message

8><
>

Chris
First of all thank you very much for the effort that you placed in
your response.
It really what I expected from you after reading your profile ie the
anbsence of derision.
Now I am not fully convinced with your response as the rest of the
newsgroup already suspect
Coming from a different direction with respect to mathematics, when
adding a timevarying field
to a Gaussian field it equates in every way to the laws of Maxwell.
Both of these laws I consider
as an absolute truth. The above therefore states that the presence of
particles is undeniable in the generation of RF communication. Because
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between the field aproach and the particle aproach tho with my present
circumstances I may not be able to determine.
Again, thankyou for your gentlemanly response, a rarity in this
particular newsgroup.
Regards
Art

You're welcome.

I can't say I understand much of what you've written above but I'm sure there are often many ways to visualise the same physical process; the wave/particle duality of EM radiation being one often spoken about. For this case, I wrote from the viewpoint of the work reported in a large number of text books: the set of principles that's passed on at universities and has been used to design the vast majority of antennas that have been used since the discovery of radio. I'm not aware of any successful antenna designs, operating lower than EHF, based on a particle theory of electromagnetic radiation. However I am aware of a few unsuccessful designs (e.g. the 'crossed-field antenna') for which the creators have purported to re-write the known (wave) theory of radiation.

I know it's generally bad to generalise (!) but it seems clear to me, and probably many others, that antennas based on well-documented, well-understood, theory are always a safer bet! They certainly are in (most lines of) business where cost matters - but perhaps not in amateur circles where different motives apply.

Chris

685. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 20:40:08 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c3601433-ab2a-44a3-a366-38fa8bc374ed@z27g2000prd.googlegroups.com>
Source record: 17909

On Jan 26, 1:59 pm, "christofire" <christof...@btinternet.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:b1cd1774-29e2-412f-9fce-3baa406568fa@z27g2000prd.googlegroups.com...
> On Jan 26, 12:16 pm, "christofire" <christof...@btinternet.com> wrote:
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> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> 8><
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>
>
> Chris
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> your response.
> It really what I expected from you after reading your profile ie the
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> Now I am not fully convinced with your response as the rest of the
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> Coming from a different direction with respect to mathematics, when
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> as an absolute truth. The above therefore states that the presence of
> particles is undeniable in the generation of RF communication. Because
> of the specificity of a state of equilibrium in a Gaussian field the
> following can be stated. A radiator or array can be any size, shape or
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> The biggest difference is the interpretation of a tank circuit(a
> circuit in equilibrium) where in the perfect case of zero friction
> your aproach would define this operation as a zero tx/rc element
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> Art
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> You're welcome.
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> of text books: the set of principles that's passed on at universities and
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> since the discovery of radio. I'm not aware of any successful antenna
> designs, operating lower than EHF, based on a particle theory of
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> I know it's generally bad to generalise (!) but it seems clear to me, and
> probably many others, that antennas based on well-documented,
> well-understood, theory are always a safer bet! They certainly are in (most
> lines of) business where cost matters - but perhaps not in amateur circles
> where different motives apply.
>
> Chris

Understood
I have an applied patent that is on the net somewhere that goes thru
these same motions to obtain an array inequilibrim whbich are then
displayed via the AO pro program whiuch confirms the
equilibrium theoryn that is obtained by the Gaussian field aproach on
Maxwells laws.
On the same patent request I provided an analysis of a verticle dipole
which for maximum gain is tipped with reference to earth. The tipping
force is the weak force or the eddy field I spoke of which is not
included in programs associated with planar forms that are based on

intercoupling coupling.
The same aproach can also be applied using the equilibrium requirement as I proposed earlier.
The only problem I can see in using MOM programs is the validity of close spaced conduntors where it is possible to conceive of interfering eddy currents not impinging upon particles, but it terms of receiving there is nothing to prevent the impact of particles on the radiator. At present my tower antenna is made of circularly wound wires in both the cw and ccw direction, again based on the equilibrium finding, where the antenna is a travelling wave form that is end fed which allows for smaller volume antennas to those presently known.
Everything revolves around the extended Gaussion theorem which equates to Maxwell's laws with the addition of particles within a boundary in equilibrium. Break that association down then all of mine falls apart.
I will place a dual wound helix on my page in the next couple of days that is produced via
the AOP Minninec program for antennas by Beasely so that you can see it for your self. It will not be completely accurate as such an arrangement requires many more point calculations than I have available to me. Will be at hospital all day tomorrow so please be patient on my page issue.
Best regards
Art

686. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-26 23:22:56 UTC
From: Dave <noone@nowhere.com>
Message-ID: <kBrfl.2456$al1.957@nwrddc01.gnilink.net>
Source record: 17910

"christofire" <christofire@btinternet.com> wrote in message
news:8oqdnVvmzeGKi-PUnZ2dnUVZ8rWdnZ2d@bt.com...
>
> I can't say I understand much of what you've written above but I'm sure
> there are often many ways to visualise the same physical process;

and be glad that you don't understand it! its pure bafflegab, unless you
really like magical levitating diamagnetic neutrinos that hop off the
antenna to make em waves.

687. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 00:31:55 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <76fd422f-2548-4a36-8671-bce4bea6f68d@p2g2000prf.googlegroups.com>
Source record: 17911

On Jan 26, 5:22 pm, "Dave" <no...@nowhere.com> wrote:
> "christofire" <christof...@btinternet.com> wrote in message
>
> news:8oqdnVvmzeGKi-PUnZ2dnUVZ8rWdnZ2d@bt.com...
>
>
>
> > I can't say I understand much of what you've written above but I'm sure
> > there are often many ways to visualise the same physical process;
>
> and be glad that you don't understand it! its pure bafflegab, unless you
> really like magical levitating diamagnetic neutrinos that hop off the
> antenna to make em waves.

David
Your accusations doesn't bother me. After all, you got a degree by
memorising the books
without checking from first principles for yourself. Choosing from
a,b,c or d is a similar short cut for education without the
application of personal intelligence
It would be suicidal for any student to not parrot phrases and
teachings ennunciated by their professor. He is the one who reads your
work and determines whether you have earned a degree or not, thus
conformity is a requirement. When you stated that statics has no
place with respect to radiation or words to that effect it was
understandable for me as the aproach that I ventured is not covered in
any of the books presently being published. The point that all should
know is that you cannot build a castle on sand, or in other words, all
theories must rest on a sound foundation or findings and since your
degree was obtained by being a follower your reaction to that which is
not in compliance with the books of the day is perfectly
understandable
Take care
Art Unwin KB9MZ.......xg (uk)

688. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 02:08:40 UTC
From: dloydlavies@hotmail.com
Message-ID: <75rsn4d2njvpqqcj6p2ss1laep36s5t66o@4ax.com>
Source record: 17912
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

689. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 02:10:46 UTC
From: kb9rqz@yahoooo.com
Message-ID: <19rsn45rh7a26sdsvj0sbf97t5i548rihj@4ax.com>
Source record: 17913
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
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>K4YZ wrote:
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>> Sounds like Lennie, to me....
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>> Steve, K4YZ
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>To anyone with even an elementary understanding of anonymous proxies,
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>with members of little or no technical knowledge and then call in
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>their minds.
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>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

690. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 02:27:34 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <qgrsn4p26r5hq5o9lgqd8cf1850aa8fojd@4ax.com>
Source record: 17914

On Sun, 25 Jan 2009 20:46:28 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>For ultraviolet protection, a small amount of titanium dioxide may be added
>(1 to 5%), but the microballoons will do a fair job alone. Painting the
>finished insulators with acrylic paint (Krylonï¿½) will also provide good UV
>resistance.

I've never seen any white antenna insulators (except porcelain). Most
of the plastic antenna insulators I've seen are either black or
sometimes blue. I presume the filler and coloring used are something
something other than titanium white. Yet, everything made from marine
fiberglass is bright white, presumably doped with titanium white for
UV protection.

Is there any benefit to the white color over something like black
graphite stiffener and fill, which also offer UV protection? Duz the
color make any difference in preventing polymer chain breakage?

Drivel: I've noticed that the white PCV electrical tape I sometimes
use to wrap coax and connectors seems to last longer than the same
tape in black.

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

691. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 02:52:43 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gllst3$m402$2@tr22n12.aset.psu.edu>
Source record: 17915

Jeff Liebermann wrote:
> On Sun, 25 Jan 2009 20:46:28 -0500, "NoSPAM" <unknown@nospam.org>
> wrote:
>
>> For ultraviolet protection, a small amount of titanium dioxide may be added
>> (1 to 5%), but the microballoons will do a fair job alone. Painting the
>> finished insulators with acrylic paint (Krylonï¿½) will also provide good UV
>> resistance.
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> I've never seen any white antenna insulators (except porcelain). Most
> of the plastic antenna insulators I've seen are either black or
> sometimes blue. I presume the filler and coloring used are something
> something other than titanium white. Yet, everything made from marine
> fiberglass is bright white, presumably doped with titanium white for
> UV protection.
>
> Is there any benefit to the white color over something like black
> graphite stiffener and fill, which also offer UV protection? Duz the
> color make any difference in preventing polymer chain breakage?
>
> Drivel: I've noticed that the white PCV electrical tape I sometimes
> use to wrap coax and connectors seems to last longer than the same
> tape in black.

This is an interesting question. I have UV resistant rope that is black,
as well as UV resistant Ty-Wraps - also black in color. Wonder what the
deal is here?

- 73 de Mike N3LI -

692. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 03:02:24 UTC
From: What me worry? <danlx@tampabay.rr.com>
Message-ID: <97usn4pb02kfli8qk7h3hfb9ekn3n2ar54@4ax.com>
Source record: 17916

On Sun, 25 Jan 2009 20:46:28 -0500, "NoSPAM" <unknown@nospam.org>
backed into a tree whilst ridin inna park then wrote:

>"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
>news:07c6e5c8-0309-46c7-95ad-ecc19654b41b@q30g2000prq.googlegroups.com...
>>I came across an old single LPDA TV antenna in the trask. It was
>> pretty much FUBAR except for a coupe of feet of boom matrial and a few
>> insulators. My XYL is into making models and castings and she can make
>> a mold of the insulators easy enough. I was wondering if anyone knew
>> of a good casting material that would be compatable with the
>> requirements to build a single boom LPDA antenna to form the
>> insulators. She is not usually concerned with strength or UV
>> resistance so she couldnt help much on this part.
>
>Epoxy and polyester resins come to mind. If you are rebuilding the TV
>antenna and not adding significant weight, these should work well. Use the
>low viscosity resins sold in quarts, and not epoxy glues.
>
>For added strength, consider adding chopped fiberglass strands. For
>reduced weight, glass microballoons may be added to the resins. They are
>extremely light with a specific gravity of 0.18 to 0.25 depending on the
>manufacturer. Phenolic microballoons are also available.
>
>For ultraviolet protection, a small amount of titanium dioxide may be added
>(1 to 5%), but the microballoons will do a fair job alone. Painting the
>finished insulators with acrylic paint (Krylonï¿½) will also provide good UV
>resistance.
>
>Many marine supply stores carry these resins, the chopped fiberglass, and
>the microballoons. Be extra careful with the polyester catalyst (typically
>methyl-ethyl-ketone peroxide) as it is extremely damaging to the eyes.

Not to mention your skin does not stop MEK from penetration. It's
porous to MEK.

N9JBF

>
>Good luck with your project.
>
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnitz84@charter.net [transpose the digits to reply]

693. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 03:26:58 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <7avfl.161284$H12.156320@newsfe12.iad>
Source record: 17917

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:qgrsn4p26r5hq5o9lgqd8cf1850aa8fojd@4ax.com...
> On Sun, 25 Jan 2009 20:46:28 -0500, "NoSPAM" <unknown@nospam.org>
> wrote:
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>>(1 to 5%), but the microballoons will do a fair job alone. Painting the
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> sometimes blue. I presume the filler and coloring used are something
> something other than titanium white. Yet, everything made from marine
> fiberglass is bright white, presumably doped with titanium white for
> UV protection.

Titanium dioxide is a very bright white. It reflects the ultraviolet, as
well as visible and near-infrared. I am not familiar with its absorption
spectra in the far infrared. It is extensively used in marine fiberglass
resins, both for decorative and UV protection uses. Zinc oxide is also
white and it is used in sunscreens for the same reason.

The old Hy-Gain center insulators that were blue were likely polybutylene
terephthalate which is naturally UV resistant. The black insulators
contained carbon black, a UV absorber.

> Is there any benefit to the white color over something like black
> graphite stiffener and fill, which also offer UV protection? Duz the
> color make any difference in preventing polymer chain breakage?

Carbon black is added as an absorber of ultraviolet. Graphite nanotubes
and graphite fibers are relatively recent developments. They are added to
produce a composite material which is quite strong and rigid in nature.
Being rather expensive compared to inexpensive carbon black, they are
generally added to plastics only for improved mechanical properties.

Polypropylene, Nylon, and Delrin absorb ultraviolet light and the energy
goes to breaking the polymer chain. Polybutylene and polyethylene
terephthalate absorb ultraviolet energy but fluoresce in the visible and
near infrared giving back the energy at a longer wavelength.
Polynaphthalene terephthalate is such a strong fluorescer in the visible
that it requires quenching additives in many applications such as food
packaging. Polyesters are used in marine ropes for their high strength and
UV resistance.

> Drivel: I've noticed that the white PCV electrical tape I sometimes
> use to wrap coax and connectors seems to last longer than the same
> tape in black.

I would bet that red PVC tape lasts for only a short time in sunlight. Most organic red pigments are destroyed rather quickly by ultraviolet light, a real problem for automobile paint. There is a reason for Clear Coat beyond its looks!

73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net [transpose the digits to reply]

694. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 03:40:26 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <9c98a1bb-7e98-4624-9495-b32bbe6ba896@f40g2000pri.googlegroups.com>
Source record: 17918

On Jan 26, 2:40 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Jan 26, 1:59 pm, "christofire" <christof...@btinternet.com> wrote:
>
>
>
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> >news:b1cd1774-29e2-412f-9fce-3baa406568fa@z27g2000prd.googlegroups.com...
> > On Jan 26, 12:16 pm, "christofire" <christof...@btinternet.com> wrote:
>
> > > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> > 8><
>
> > Chris
> > First of all thank you very much for the effort that you placed in
> > your response.
> > It really what I expected from you after reading your profile ie the
> > anbsence of derision.
> > Now I am not fully convinced with your response as the rest of the
> > newsgroup already suspect
> > Coming from a different direction with respect to mathematics, when
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> > to a Gaussian field it equates in every way to the laws of Maxwell.
> > Both of these laws I consider
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> > leaves a structure that is in equilibrium ala wire that is conductive
> > and with no other properties other that he addition of distributed
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> > radiator cannot receive by incoming waves from a transmitter, Where as
> > my response is based on the basis of particles impinging on a receive
> > antenna to create oscillation.
> > The biggest difference is the interpretation of a tank circuit(a
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> > your aproach would define this operation as a zero tx/rc element

> > My interpretation is that it cannot be zero friction even if the
> > distributed components were friction free because of the presence of
> > particles, which must be impelled by force to another radiator to
> > create oscillation.
> > So to sum up
> > Your aproach is from dissipating fields to provide communication and
> > mine is from non dissipating fields that dislodge particles as it
> > rotates to and from the distributed loads using both as energy
> > retainers..
> > As I have stated before, this is a presently a widely known method in
> > a macro re enactment of salvage processes that sorts materials by
> > directional magnetic field thrusts provided by eddy fields
> > I do need more time to study your response to see the difference
> > between the field aproach and the particle aproach tho with my present
> > circumstances I may not be able to determine.
> > Again, thankyou for your gentlemanly response, a rarity in this
> > particular newsgroup.
> > Regards
> > Art
>
> > You're welcome.
>
> > I can't say I understand much of what you've written above but I'm sure
> > there are often many ways to visualise the same physical process; the
> > wave/particle duality of EM radiation being one often spoken about. For
> > this case, I wrote from the viewpoint of the work reported in a large number
> > of text books: the set of principles that's passed on at universities and
> > has been used to design the vast majority of antennas that have been used
> > since the discovery of radio. I'm not aware of any successful antenna
> > designs, operating lower than EHF, based on a particle theory of
> > electromagnetic radiation. However I am aware of a few unsuccessful designs
> > (e.g. the 'crossed-field antenna') for which the creators have purported to
> > re-write the known (wave) theory of radiation.
>
> > I know it's generally bad to generalise (!) but it seems clear to me, and
> > probably many others, that antennas based on well-documented,
> > well-understood, theory are always a safer bet! They certainly are in (most
> > lines of) business where cost matters - but perhaps not in amateur circles
> > where different motives apply.
>
> > Chris
>
> Understood
> I have an applied patent that is on the net somewhere that goes thru
> these same motions to obtain an array inequilibrim whbich are then
> displayed via the AO pro program whiuch confirms the
> equilibrium theoryn that is obtained by the Gaussian field aproach on
> Maxwells laws.
> On the same patent request I provided an analysis of a verticle dipole
> which for maximum gain is tipped with reference to earth. The tipping

> force is the weak force or the eddy field I spoke of which is not
> included in programs associated with planar forms that are based on
> intercoupling coupling.
> The same aproach can also be applied using the equilibrium requirement
> as I proposed earlier.
> The only problem I can see in using MOM programs is the validity of
> close spaced conduntors where it is possible to conceive of
> interfering eddy currents not impinging upon particles, but it terms
> of receiving there is nothing to prevent the impact of particles on
> the radiator. At present my tower antenna is made of circularly wound
> wires in both the cw and ccw direction, again based on the equilibrium
> finding, where the antenna is a travelling wave form that is end fed
> which allows for smaller volume antennas to those presently known.
> Everything revolves around the extended Gaussion theorem which equates
> to Maxwell's laws with the addition of particles within a boundary in
> equilibrium. Break that association down then all of mine falls apart.
> I will place a dual wound helix on my page in the next couple of days
> that is produced via
> the AOP Minninec program for antennas by Beasely so that you can see
> it for your self. It will not be completely accurate as such an
> arrangement requires many more point calculations than I have
> available to me. Will be at hospital all day tomorrow so please be
> patient on my page issue.
> Best regards
> Art

ok Chris
I have to get ready for an operation early tomorrow so I collected
some stuff from the past and just put it into a package for my son to
post for me. It will at least give you some stuff to look at until I
get back. The important thing to remember is all other polarizations
are always 3db down from 'max gain' and with only one circular
direction with horiz and vert. The object is to choose the
polarization required which you are aiming for to get the purest of
radiation which helps in the reflected signal when searching for
weather abnormalities at airports such as wind shear with minimum
distortion. Sorry I could not plan the offering so I have not vetted
what is posted

See....,. http://users.sdsc.edu/~unwin/

Best regards
Art unwin KB9MZ.......xg (uk)

695. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 03:56:22 UTC
From: NoSPAM <unknown@nospam.org>
Message-ID: <HBvfl.212871$2w3.85224@newsfe19.iad>
Source record: 17919

"What me worry?" <danlx@tampabay.rr.com> wrote in message
news:97usn4pb02kfli8qk7h3hfb9ekn3n2ar54@4ax.com...
> Not to mention your skin does not stop MEK from penetration. It's
> porous to MEK.

Don't confuse the solvent methyl ethyl ketone (MEK) with the catalyst
methyl ethyl ketone peroxide (MEKP or MEK peroxide). MEK does not produce
serious health effects until high concentrations are reached. MEK
peroxide, however, is a severe skin irritant which produces serious health
effects at even low concentrations. The OSHA permissible exposure limit
for MEK peroxide is about 1500 times lower than MEK. But both materials
should be handled with care.

As a side note MEKP is a high explosive related to acetone peroxide which
was used by ill fated terrorists who intended to blow up airplanes. As a
safety measure MEKP is usually supplied diluted in a solvent which
co-polymerizes with polyester resins.

73, Barry WA4VZQ
BLOrnitz84@charter.net [transpose the digits to reply]

696. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 08:13:16 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <3oftn4lssg1l5otr2tht46ee2bcgomj7vk@4ax.com>
Source record: 17920

On Mon, 26 Jan 2009 22:26:58 -0500, "NoSPAM" <unknown@nospam.org>
wrote:

>Titanium dioxide is a very bright white. It reflects the ultraviolet, as
>well as visible and near-infrared.
(...)
>Carbon black is added as an absorber of ultraviolet.

So, the difference is that titanium dioxide reflects UV, while various
black pigments absorbs UV. Ok, that makes sense. Thanks.

>I would bet that red PVC tape lasts for only a short time in sunlight.
>Most organic red pigments are destroyed rather quickly by ultraviolet
>light, a real problem for automobile paint. There is a reason for Clear
>Coat beyond its looks!

Yep. One of my non-clever neighbors painted their house candy apple
red. Besides being rather garrish, the paint lasted about 2 years
before fading rather badly. They had to sandblast and re-prime in
order to start over with basic beige.

Incidentally, one of my former neighors was a painting contractor. He
painted his house with the left overs from various jobs. None of the
colors matched. Not exactly an eyesore, but close.

I have some red electrical tape. I'll give it a try on the roof and
let you know after summer.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

697. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 13:33:14 UTC
From: dave <dave@dave.dave>
Message-ID: <RvCdnQnJBLaBkOLUnZ2dnUVZ_vqdnZ2d@earthlink.com>
Source record: 17921

NoSPAM wrote:
> Polyesters are used in marine ropes for their high strength
> and UV resistance.
>

Amateur radio operators are very fond of Dacron as well. I have it
holding up my 44 foot vertical mast.

698. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 17:17:17 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <glnfisqbe1@news.jpl.nasa.gov>
Source record: 17922

Mike Coslo wrote:
> Jeff Liebermann wrote:
>> On Sun, 25 Jan 2009 20:46:28 -0500, "NoSPAM" <unknown@nospam.org>
>> wrote:
>>
>>> For ultraviolet protection, a small amount of titanium dioxide may be
>>> added (1 to 5%), but the microballoons will do a fair job alone.
>>> Painting the finished insulators with acrylic paint (Krylonï¿½) will
>>> also provide good UV resistance.
>>
>> I've never seen any white antenna insulators (except porcelain). Most
>> of the plastic antenna insulators I've seen are either black or
>> sometimes blue. I presume the filler and coloring used are something
>> something other than titanium white. Yet, everything made from marine
>> fiberglass is bright white, presumably doped with titanium white for
>> UV protection.
>> Is there any benefit to the white color over something like black
>> graphite stiffener and fill, which also offer UV protection? Duz the
>> color make any difference in preventing polymer chain breakage?
>>
>> Drivel: I've noticed that the white PCV electrical tape I sometimes
>> use to wrap coax and connectors seems to last longer than the same
>> tape in black.
>
> This is an interesting question. I have UV resistant rope that is black,
> as well as UV resistant Ty-Wraps - also black in color. Wonder what the
> deal is here?
>
> - 73 de Mike N3LI -
Carbon black (and various other things) are also used as UV blockers.
Obviously, carbon black may not be the best thing for an insulator.
Sometimes it works, sometimes it doesn't. You have to test it.

699. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 18:20:55 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <a2fdeeee-e8b2-47ed-9e1c-97421d83dbb8@o4g2000pra.googlegroups.com>
Source record: 17923

On Jan 25, 1:15 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> I came across an old single LPDA TV antenna in the trask. It was
> pretty much FUBAR except for a coupe of feet of boom matrial and a few
> insulators. My XYL is into making models and castings and she can make
> a mold of the insulators easy enough. I was wondering if anyone knew
> of a good casting material that would be compatable with the
> requirements to build a single boom LPDA antenna to form the
> insulators. She is not usually concerned with strength or UV
> resistance so she couldnt help much on this part.
>
> Jimmie

I sent my wife some pictures of the insulators and she says they would
have to be made in a 2 part mold and she cant do that. RATS. Ialso
found that within a mile of my apartment is a wholesale dealer that
sells a huge variety of casting materials. The info they gave me is
that someting like this would probably have to be injection molded
from melted plastic or machined from billets.

After rethinking a little if each half of an element was connected to
each other with a fiberglass rod the torsion forces on the insulator
would be reduced to zero and it would not have to be that strong.

Jimmie

Jimmie

700. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 20:19:15 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <6330e7b7-99ba-4f53-b245-714f7a942cad@y1g2000pra.googlegroups.com>
Source record: 17924

On Jan 27, 3:13 am, Jeff Liebermann <je...@cruzio.com> wrote:
> On Mon, 26 Jan 2009 22:26:58 -0500, "NoSPAM" <unkn...@nospam.org>
> wrote:
>
>
>
> >Titanium dioxide is a very bright white. It reflects the ultraviolet, as
> >well as visible and near-infrared.
> (...)
> >Carbon black is added as an absorber of ultraviolet.
>
> So, the difference is that titanium dioxide reflects UV, while various
> black pigments absorbs UV. Ok, that makes sense. Thanks.
>
> >I would bet that red PVC tape lasts for only a short time in sunlight.
> >Most organic red pigments are destroyed rather quickly by ultraviolet
> >light, a real problem for automobile paint. There is a reason for Clear
> >Coat beyond its looks!
>
> Yep. One of my non-clever neighbors painted their house candy apple
> red. Besides being rather garrish, the paint lasted about 2 years
> before fading rather badly. They had to sandblast and re-prime in
> order to start over with basic beige.
>
> Incidentally, one of my former neighors was a painting contractor. He
> painted his house with the left overs from various jobs. None of the
> colors matched. Not exactly an eyesore, but close.
>
> I have some red electrical tape. I'll give it a try on the roof and
> let you know after summer.
>
> --
> Jeff Liebermann   je...@cruzio.com
> 150 Felker St #D   http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann   AE6KS   831-336-2558

I have found that just about any of the colored marking tapes dont
hold up well outdoors.

701. Re: Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 20:34:58 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <aadb869b-6919-48f9-9db2-da6348468c6f@v5g2000pre.googlegroups.com>
Source record: 17925

On Jan 25, 4:03 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
> "D. Travis" <n...@here.com> wrote in message
>
> news:497c4ae4$0$19069$6d4158fb@reader.xsnews.nl...
>
>
>
> > Around the low bands so 80 and 40 it seems barely to plough through..
> > No sunspots or what ?
> > What prediction sites is relighable ?
> > Have you heard the event on the magnethosphere ? I have.
>
> Few sunspots this year. http://www.hamradioresources.com/hamradio is one
> possibility for a prediction site. The "Space Weather" link, second box
> from the left, is relevant. See the tutorial, too.
>
> Also, the following is quoted from "The ARRL Letter":
>
> <quote>
> For more information concerning radio propagation,
> visit the ARRL Technical Information Service Propagation page
> <http://www.arrl.org/tis/info/propagation.html>. To read this week's
> Solar Report in its entirety, check out the W1AW Propagation Bulletin
> page <http://www.arrl.org/w1aw/prop/>.
> <end quote>
>
> Don't know what "event" you heard. Details? Web link?
>
> I don't do much 160 except for local chitchat. (I'm in SoCal.)
> 80 has been hopping. Quite a bit of long skip, including coast-to-coast
> action and Europe from the East Coast, I hear. Running power is a big help,
> more so than the higher bands, I think.
> 40 seems to be in the doldrums.
> 20 has occasional good days. I heard Alaska working Alabama today. During
> most days, 800 - 1200 mile paths are common for me. Lately around sunset 20
> has been going off like it's being switched off, quite different from last
> summer.
> I don't have a decent antenna for 15.
> 10 might as well be on Mars lately, although some folks claim to have
> enjoyed openings. Not me, not lately.
>
> I hope this helps.

10m has its moments. A couple of weeks ago I worked Missouri and Louisanna from NC. I heard two guys chatting and thought they were local. Threw out my call and found they were in Slidell Ms.When I got finished talking to them a guy in St Louis called me. He couldnt hear the guys in MS. 10M is not dead you just have to wait for an opening.

Jimmie

702. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 21:50:43 UTC
From: dloydlavies@gmail.com
Message-ID: <hd0vn4hqqfend1nr1qoducee5os91qka01@4ax.com>
Source record: 17926
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

703. Re: Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-27 23:19:31 UTC
From: nm5k@wt.net
Message-ID: <5f4f0ee8-9b96-4cd8-b616-9f88528d7d95@y23g2000pre.googlegroups.com>
Source record: 17927

On Jan 25, 5:20 am, "D. Travis" <n...@here.com> wrote:
> Around the low bands so 80 and 40 it seems barely to plough through..
> No sunspots or what ?
> What prediction sites is relighable ?
> Have you heard the event on the magnethosphere ? I have.

The low bands are best during the minimums overall.
But the MUF can drop down pretty low at times.
So 80 can stretch out, and the closer stations will
drop out on you.
It will often drop out in the middle evening to closer stations,
and then come back again around midnight or so.
Fairly normal in the winter during solar minimums.
But you will notice when the band seems kaput,
you will still hear longer distance stations, and dx.
The MUF will vary to the distance between two stations.
IE: if I'm in Houston and talking to Dallas and El Paso
at the same time, and Dallas drops out, but El Paso
is still strong, that means the MUF has dropped
below my frequency for the shorter distance, but
not yet for the longer. I'd have to drop frequency to
continue to work Dallas. IE: I'd go to 160m.

704. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 00:33:23 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <mJNfl.216140$2w3.187227@newsfe19.iad>
Source record: 17928

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:6330e7b7-99ba-4f53-b245-714f7a942cad@y1g2000pra.googlegroups.com...

> I have found that just about any of the colored marking tapes dont
> hold up well outdoors.

I assume you mean tapes like surveyors use as well as temporary tapes
printed with "Police Line" or "Caution." These are generally made of
polyethylene because it is so inexpensive. Exposed to ultraviolet light,
polyethylene is destroyed quickly.

To add to something "Dave" said, Dacron is DuPont's name for their brand of
poly(ethylene terephthalate) polyester fibers. Other fiber names are
Dacron, Diolen, Fortrel, Kodal, Tergal, Terylene, and Trevira. I have seen
hamfest dealers charging considerably more for Dacron rope just because of
the name. Likewise Mylar is DuPont's name for PET film, but PET films are
also known as Terphane, Hostaphan and Melinex by different manufacturers.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

705. Re: Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 04:12:59 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <gXQfl.36114$E%6.35666@newsfe04.iad>
Source record: 17929

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:aadb869b-6919-48f9-9db2-da6348468c6f@v5g2000pre.googlegroups.com...
On Jan 25, 4:03 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:

< snip >

>> 10 might as well be on Mars lately, although some folks claim to have
>> enjoyed openings. Not me, not lately.
>>
>> I hope this helps.

< snip >

> 10m has its moments. A couple of weeks ago I worked Missouri and
> Louisanna from NC. I heard two guys chatting and thought they were
> local. Threw out my call and found they were in Slidell Ms.When I got
> finished talking to them a guy in St Louis called me. He couldnt hear
> the guys in MS. 10M is not dead you just have to wait for an opening.

> Jimmie

There you go! I check 10m every day, especially when 20 sounds quiet,
'cause maybe everybody's up on 10. Lately the only thing I hear on 10 is a
stray carrier or two. But, as you so aptly put it: It has its moments.

706. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 10:59:05 UTC
From: maxpowervk@yahoo.com.au
Message-ID: <fd7be51c-f1d9-4798-bc40-e27254d17f90@y1g2000pra.googlegroups.com>
Source record: 17930

> >> What about ribbon cable? I've got a fair length of ribbon cable
> (something like 25 wires - the sort used in PCs to connect hard drives
> and the like) put away for a rainy-day loop antenna project. While I
> could make one large loop using all 25 wires for the really low
> frequencies, I'll almost certainly cut it up and make several smaller
> loops with fewer wires for the higher frequencies.
> --
> Ian- Hide quoted text -
>

Hello Ian,
I have used 16 core ribbon cable, with each core connected in series for an AM broadcast band loop antenna. It was about 1 metre long in circumference which gave me a total length of 16 metres. I used a cheap tuning variable capacitor with a switch which connected another capacitor to increase the total capacitance so I could tune down to the bottom of the AM band. It is coupled through the internal ferrite antenna in the radio. On my main tuner in the house, it has connections for an antenna on the back, so I made another ribbon cable loop antenna and put a single wire with it as a pick up wire. Each end of the pick up wire is connected to the antenna inputs on the tuner. I have made four of them. They are easily made, not too fiddly and they work well. Cheers
Max

707. Re: Are the conditions on hf also down in your area ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 11:19:57 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <f5d76f1a-c976-4feb-af77-5b444447572c@p23g2000prp.googlegroups.com>
Source record: 17931

On Jan 27, 11:12 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:aadb869b-6919-48f9-9db2-da6348468c6f@v5g2000pre.googlegroups.com...
> On Jan 25, 4:03 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
> wrote:
>
> < snip >
>
> >> 10 might as well be on Mars lately, although some folks claim to have
> >> enjoyed openings. Not me, not lately.
>
> >> I hope this helps.
>
> < snip >
>
> > 10m has its moments. A couple of weeks ago I worked Missouri and
> > Louisanna from NC. I heard two guys chatting and thought they were
> > local. Threw out my call and found they were in Slidell Ms.When I got
> > finished talking to them a guy in St Louis called me. He couldnt hear
> > the guys in MS. 10M is not dead you just have to wait for an opening.
> > Jimmie
>
> There you go! I check 10m every day, especially when 20 sounds quiet,
> 'cause maybe everybody's up on 10. Lately the only thing I hear on 10 is a
> stray carrier or two. But, as you so aptly put it: It has its moments.

I monitor 11m for activity and switch over to 10 when I hear some dx..
I ve noticed I talk into La and Ms a lot on this longwire on 10m. I
must have lobes pointing in to each area.
Jimmie

708. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 11:33:06 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <kDDg+6OyJEgJFw6X@g3ohx.demon.co.uk>
Source record: 17932

In message
<fd7be51c-f1d9-4798-bc40-e27254d17f90@y1g2000pra.googlegroups.com>,
maxpowervk@yahoo.com.au writes
>> >> What about ribbon cable? I've got a fair length of ribbon cable
>> (something like 25 wires - the sort used in PCs to connect hard drives
>> and the like) put away for a rainy-day loop antenna project. While I
>> could make one large loop using all 25 wires for the really low
>> frequencies, I'll almost certainly cut it up and make several smaller
>> loops with fewer wires for the higher frequencies.
>> --
>> Ian- Hide quoted text -
>>
>Hello Ian,
>I have used 16 core ribbon cable, with each core connected in series
>for an AM broadcast band loop antenna. It was about 1 metre long in
>circumference which gave me a total length of 16 metres. I used a
>cheap tuning variable capacitor with a switch which connected another
>capacitor to increase the total capacitance so I could tune down to
>the bottom of the AM band. It is coupled through the internal ferrite
>antenna in the radio. On my main tuner in the house, it has
>connections for an antenna on the back, so I made another ribbon cable
>loop antenna and put a single wire with it as a pick up wire. Each end
>of the pick up wire is connected to the antenna inputs on the tuner. I
>have made four of them. They are easily made, not too fiddly and they
>work well. Cheers
>Max
>
Ah! Thanks for that info. It does seem to conflict with the previous
advice. I was thinking about a somewhat larger loop - maybe using 2 or
3m of ribbon, but with fewer turns - but I can't see why 'working well'
should no longer apply.

I have no preference for using ribbon - it's just that is seems like a
simple way of getting several turns 'in one go' (if you know what I
mean). Obviously, you will reduce the self capacity (and have a greater
potential tuning range) by using a loop with the turns well spaced -
although the inductance will probably be a bit less, and you'll need to
add a turn or two to compensate.

My next question is about using varicap diodes to tune the loop. Most
designs use a conventional capacitor, but a varicap would enable the
loop to be located (say) in the loft, and the tuning varied from the
shack downstairs. Is this technology worth perusing (ie Googling)? Or
has it been found to be a waste of time?

Thanks again.
--
ian

709. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 11:50:43 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <9777caca-97fa-4af9-9370-b5db983d31b1@o40g2000prn.googlegroups.com>
Source record: 17933

On Jan 27, 7:33 pm, "Dr. Barry L. Ornitz" <BLOrnit...@charter.net>
wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:6330e7b7-99ba-4f53-b245-714f7a942cad@y1g2000pra.googlegroups.com...
>
> > I have found that just about any of the colored marking tapes dont
> > hold up well outdoors.
>
> I assume you mean tapes like surveyors use as well as temporary tapes
> printed with "Police Line" or "Caution." These are generally made of
> polyethylene because it is so inexpensive. Exposed to ultraviolet light,
> polyethylene is destroyed quickly.
>
> To add to something "Dave" said, Dacron is DuPont's name for their brand of
> poly(ethylene terephthalate) polyester fibers. Other fiber names are
> Dacron, Diolen, Fortrel, Kodal, Tergal, Terylene, and Trevira. I have seen
> hamfest dealers charging considerably more for Dacron rope just because of
> the name. Likewise Mylar is DuPont's name for PET film, but PET films are
> also known as Terphane, Hostaphan and Melinex by different manufacturers.
>
> --
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnit...@charter.net
> [transpose digits to reply]

Sorry I thought I had quoted Jeff and it was understood I was talking
about PVC electical tape.

Jimmie

710. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 13:03:45 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <UdidnZm5dqwqyh3UnZ2dneKdnZydnZ2d@bt.com>
Source record: 17934

"Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
news:kDDg+6OyJEgJFw6X@g3ohx.demon.co.uk...
> In message
> <fd7be51c-f1d9-4798-bc40-e27254d17f90@y1g2000pra.googlegroups.com>,
> maxpowervk@yahoo.com.au writes
>>> >> What about ribbon cable? I've got a fair length of ribbon cable
>>> (something like 25 wires - the sort used in PCs to connect hard drives
>>> and the like) put away for a rainy-day loop antenna project. While I
>>> could make one large loop using all 25 wires for the really low
>>> frequencies, I'll almost certainly cut it up and make several smaller
>>> loops with fewer wires for the higher frequencies.
>>> --
>>> Ian- Hide quoted text -
>>>
>>Hello Ian,
>>I have used 16 core ribbon cable, with each core connected in series
>>for an AM broadcast band loop antenna. It was about 1 metre long in
>>circumference which gave me a total length of 16 metres. I used a
>>cheap tuning variable capacitor with a switch which connected another
>>capacitor to increase the total capacitance so I could tune down to
>>the bottom of the AM band. It is coupled through the internal ferrite
>>antenna in the radio. On my main tuner in the house, it has
>>connections for an antenna on the back, so I made another ribbon cable
>>loop antenna and put a single wire with it as a pick up wire. Each end
>>of the pick up wire is connected to the antenna inputs on the tuner. I
>>have made four of them. They are easily made, not too fiddly and they
>>work well. Cheers
>>Max
>>
> Ah! Thanks for that info. It does seem to conflict with the previous
> advice. I was thinking about a somewhat larger loop - maybe using 2 or 3m
> of ribbon, but with fewer turns - but I can't see why 'working well'
> should no longer apply.
>
> I have no preference for using ribbon - it's just that is seems like a
> simple way of getting several turns 'in one go' (if you know what I mean).
> Obviously, you will reduce the self capacity (and have a greater potential
> tuning range) by using a loop with the turns well spaced - although the
> inductance will probably be a bit less, and you'll need to add a turn or
> two to compensate.
>
> My next question is about using varicap diodes to tune the loop. Most
> designs use a conventional capacitor, but a varicap would enable the loop
> to be located (say) in the loft, and the tuning varied from the shack

> downstairs. Is this technology worth perusing (ie Googling)? Or has it
> been found to be a waste of time?
>
> Thanks again.
> --
> ian

Varicaps are fine and you will find devices containing pairs like the BB212, specifically intended for tuning domestic receivers. They're used in all the modern radios that are digitally controlled. The trick is to use them in balanced pairs so strong signals don't push a single diode into conduction.

Chris

711. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 18:51:33 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ep31o4h5t3js4iefd4aulckbpu2g0o18ht@4ax.com>
Source record: 17935

On Wed, 28 Jan 2009 13:03:45 -0000, "christofire"
<christofire@btinternet.com> wrote:

>> My next question is about using varicap diodes to tune the loop. Most
>> designs use a conventional capacitor, but a varicap would enable the loop
>> to be located (say) in the loft, and the tuning varied from the shack
>> downstairs. Is this technology worth perusing (ie Googling)? Or has it
>> been found to be a waste of time?

>Varicaps are fine and you will find devices containing pairs like the BB212,
>specifically intended for tuning domestic receivers. They're used in all
>the modern radios that are digitally controlled. The trick is to use them
>in balanced pairs so strong signals don't push a single diode into
>conduction.

Hi All,

The strong signal issue goes well beyond the possibility of
conduction. When you think about a voltage controlled capacitor, you
have to account for the effects of the voltage of the signal you are
tuning (and those you are not tuning). The BB212 application is found
characterized for signal levels less than 100mV (typically far less).

Why? A half volt signal level at the terminals of the device (taking
the BB212 for example) biased at 1V will swing the capacitance 100pF
above and below where it would be thought to be tuned. Of course,
correspondingly smaller signals have correspondingly smaller swings -
it all depends on how much you can tolerate.

This swing is also a problem for PIN diodes used as voltage variable
attenuators.

73's
Richard Clark, KB7QHC

712. Re: KC8QJP and N8WWM Glory Hole Party - KC8QJP will be offering discount tax consulting through the gloryhole while N8WWM is on his knees

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 19:51:53 UTC
From: RF BURNS <rfburns33@hotmail.com>
Message-ID: <glqd12mog1@news.mixmin.net>
Source record: 17936
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.cb

```
"KC8QJP" <KC8QJP@yahoo.com> wrote in message
news:497b6185$0$19492$c5fe31e7@reader.usenet4all.se...
>
> "RF BURNS" <rfburns33@hotmail.com> wrote in message
> news:gl7rcv$v1h$1@news.mixmin.net...
>>
>> "zoltan" <zoltan@zoltan.com> wrote in message
>> news:6jgVk.11173$qh4.10597@newsfe04.iad...
>>>
>>> "n8wwm mrbindwell (fatboy)" <dougay@nospam.com> wrote in message
>>> news:gcgpfa$ct7$1@news.mixmin.net...
>>>>
>>>> "Leland C Scott" <kc8ldo@madisonhts.com> wrote in message
>>>> news:gc086k$u0v$1@news.tornevall.net...
>>>>> "n8wwm mrbindwell (fatboy)" wrote:
>>>>>
>>>>> http://img254.imageshack.us/my.php?image=dougpetro3yk1.jpg
>>>>>
>>>>>> Pick up some crisco on your way over tonight, KC8QJP needs a good
>>>>>> slathering on her hind quarters.
>>>>>>
>>>>>> She's also getting ready to start her tax return posts again like she
>>>>>> does every year. You remember those..
>>>>>>
>>>>>> http://tinyurl.com/46teqq
>>>>>>
>>>>>> She says she wants to add some pics of her and me to them this year.
>>>>>>
>>>>>>
>>>>>>
>>>>> Cool!
>>>>>
>>>> they're having it over here, queerboy.
>>>>
>>>> Lance & Lisa Adair
>>>> 10431 Jackman Rd
>>>> Temperance, MI 48182-9629
>>>> (734) 854-2426
>>>>
>>>>
>>> n8wwm is a convicted criminal
>>>
```

>>>
>> N8WWM is a shut in loser.
>>
> He hardly ever breaks the law anymore.
>
Bullshit, he just got out of jail again for driving without a license, and
he was found indigent again for the sixth time in six years!
Poor dougay has no money, no job, no lfe. Too bad YOU have to support the
pathetic criminal drunken loser eh, KC8QJP?

court document below----

Journal Entry
07/03/2008 Affidavit Filed 07/03/2008 00:00, Citation issued on
07/01/2008 00:00. Defendant summoned to appear for arraignment on 07/11/2008
09:00 in court room 1. Personal appearance required. [Clerk entry]
07/11/2008 PD fee assessed. [JUDGE KELLER]
07/11/2008 Defendant ordered to pay fee for PUBLIC DEFENDER FEE..
[JUDGE KELLER]
07/11/2008 Defendant present with attorney DEFENDER, PUBLIC , #9999.
[JUDGE KELLER]
07/11/2008 Defendant requests a public defender. [JUDGE KELLER]
07/11/2008 Defendant found indigent by Court and public defender
assigned. [JUDGE KELLER]
07/11/2008 Defendant attorney enters plea of not guilty. To Assignment
Commissioner for date. [JUDGE KELLER]
07/11/2008 At the request of defendant attorney, case continued to
08/01/2008 09:00 in courtroom 1 for prosecutor pre-trial. [JUDGE KELLER]
07/11/2008 Case assigned to JUDGE KELLER. Plea indicated. [JUDGE
KELLER]
08/01/2008 Defendant present with attorney PUBLIC DEFENDER, #9999.
[JUDGE KELLER]
08/01/2008 Defendant attorney withdraws prior plea. [JUDGE KELLER]
08/01/2008 Defendant attorney enters plea of no contest. [JUDGE
KELLER]
08/01/2008 Defendant found guilty by judge. [JUDGE KELLER]
08/01/2008 FRA Shown. [JUDGE KELLER]
08/01/2008 Defendant sentenced to pay $150.00 fine and $60.00 costs.
[JUDGE KELLER]
08/01/2008 Defendant sentenced to 60 days in CORRECTIONS CENTER OF
NORTHWEST OHIO. SUSPENDED. 30 days suspended. Stay on jail until 09/26/2008
18:00. [JUDGE KELLER]
08/01/2008 Commitment form printed on 08/01/2008 10:18 by user
SAWMILLER,STEFFANIE LYNN on station 195. [Clerk entry]
08/01/2008 At the request of defendant attorney, case continued to
09/26/2008 09:00 in courtroom 1 for operator's license. [JUDGE KELLER]
08/01/2008 Commitment form printed on 08/01/2008 10:22 by user
JOOST,JAMIE SUE on station 203. [Clerk entry]
08/01/2008 Defendant applied to MONTHLY Payment Plan. Scheduled amount
of $50.00. Begin date of 09/05/2008. [Clerk entry]
08/25/2008 Payment Plan amount of $50.00 paid. [Clerk entry]

09/19/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
09/26/2008 Defendant present with attorney PUBLIC DEFENDER, #9999.
[JUDGE KELLER]
09/26/2008 Defendant placed on Active probation for 2 years. Begin
Date of 09/26/2008, end date of 09/26/2010. Probation Conditions are: NG OF
SIMILAR OFFENSE [JUDGE KELLER]
09/26/2008 Defendant's sentence modified. [JUDGE KELLER]
09/26/2008 Commitment form printed on 09/26/2008 10:57 by user
WALLS,KIMBERLY H on station 3430. [Clerk entry]
09/26/2008 Defendant sentenced to 15 days in CORRECTIONS CENTER OF
NORTHWEST OHIO. ELECTRONIC MONITORING. [JUDGE KELLER]
09/26/2008 Commitment form printed on 09/26/2008 11:30 by user
WALLS,KIMBERLY H on station 3430. [Clerk entry]
09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
KUCKUCK,RON on station 2503. [Clerk entry]
09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
KUCKUCK,RON on station 2503. [Clerk entry]
09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
KUCKUCK,RON on station 2503. [Clerk entry]
10/22/2008 Payment Plan amount of $50 paid. [Clerk entry]
11/14/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
12/12/2008 Fines and/or Costs paid in full. [Clerk entry]

713. N8WWM latest conviction...time served for driving without a license again. Too many drunk drivings

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 20:05:47 UTC
From: RF BURNS <rfburns33@hotmail.com>
Message-ID: <glqdr5$p68$1@news.mixmin.net>
Source record: 17937
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.cb

> court document below----
> Defendant DOB Case Number Violation
ADAIR, DOUGLAS 07/10/1958 08TRD019070102 DRIVING W/O COMPLY
W/LIC REINSTATEMENT REQ

Journal Entry
07/03/2008 Affidavit Filed 07/03/2008 00:00, Citation issued on
07/01/2008 00:00. Defendant summoned to appear for arraignment on
07/11/2008
09:00 in court room 1. Personal appearance required. [Clerk entry]
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KELLER]
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09/26/2008 Defendant's sentence modified. [JUDGE KELLER]
09/26/2008 Commitment form printed on 09/26/2008 10:57 by user WALLS,KIMBERLY H on station 3430. [Clerk entry]
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11/14/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
12/12/2008 Fines and/or Costs paid in full. [Clerk entry]

714. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 20:12:15 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <fd4OJwKfwLgJFwt9@g3ohx.demon.co.uk>
Source record: 17938

In message <ep31o4h5t3js4iefd4aulckbpu2g0o18ht@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Wed, 28 Jan 2009 13:03:45 -0000, "christofire"
><christofire@btinternet.com> wrote:
>
>>> My next question is about using varicap diodes to tune the loop. Most
>>> designs use a conventional capacitor, but a varicap would enable the loop
>>> to be located (say) in the loft, and the tuning varied from the shack
>>> downstairs. Is this technology worth perusing (ie Googling)? Or has it
>>> been found to be a waste of time?
>
>>Varicaps are fine and you will find devices containing pairs like the BB212,
>>specifically intended for tuning domestic receivers. They're used in all
>>the modern radios that are digitally controlled. The trick is to use them
>>in balanced pairs so strong signals don't push a single diode into
>>conduction.

Thanks for the advice, however......
>
>Hi All,
>
>The strong signal issue goes well beyond the possibility of
>conduction. When you think about a voltage controlled capacitor, you
>have to account for the effects of the voltage of the signal you are
>tuning (and those you are not tuning). The BB212 application is found
>characterized for signal levels less than 100mV (typically far less).
>
>Why? A half volt signal level

(that's surely one hell of an RF signal?)

>at the terminals of the device (taking
>the BB212 for example) biased at 1V will swing the capacitance 100pF
>above and below where it would be thought to be tuned. Of course,
>correspondingly smaller signals have correspondingly smaller swings -
>it all depends on how much you can tolerate.
>
Varicap diodes will always suffer from having their capacitance
modulated by an RF signal impressed upon them. However, they do seem to
work well enough - even when the RF level is pretty high (which must be
the case especially with varicap-tuned oscillators - ie most VCOs and
PLL systems).

Presumably, the effect of this modulation will be to generate
intermodulation products. In VCOs, this will simply appear as harmonics

of the oscillator signal (which you would get anyway - even with a conventional tuning capacitor). Where multiple-frequency signals are present (like you have with the receiving loop), the most apparent effect of the modulation of the diode capacity will appear as crossmodulation and other nasties on the other signals in the passband. However, as varicaps ARE used for the tuning of the input of receiver RF stages, how do they 'get away with it'?

>This swing is also a problem for PIN diodes used as voltage variable
>attenuators.
>
My understanding of things is that the effectiveness of PIN diodes relies on them having a very poor performance at RF (especially at VHF and UHF). In attenuator circuits, they are forward biassed, and the DC current passing through them varies their RF resistance. However, the charges flowing through the junction are so 'sluggish' that they don't react to the rapidly-changing RF voltages. There is therefore negligible modulation of the RF resistance by the RF signals passing though them.
--
Ian

715. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 20:19:20 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <c53gl.2715$Aw2.1364@nwrddc02.gnilink.net>
Source record: 17939

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:ep31o4h5t3js4iefd4aulckbpu2g0o18ht@4ax.com...
> On Wed, 28 Jan 2009 13:03:45 -0000, "christofire"
> <christofire@btinternet.com> wrote:
>
>>> My next question is about using varicap diodes to tune the loop. Most
>>> designs use a conventional capacitor, but a varicap would enable the
>>> loop
>>> to be located (say) in the loft, and the tuning varied from the shack
>>> downstairs. Is this technology worth perusing (ie Googling)? Or has it
>>> been found to be a waste of time?
>
>>Varicaps are fine and you will find devices containing pairs like the
>>BB212,
>>specifically intended for tuning domestic receivers. They're used in all
>>the modern radios that are digitally controlled. The trick is to use them
>>in balanced pairs so strong signals don't push a single diode into
>>conduction.
>
> Hi All,
>
> The strong signal issue goes well beyond the possibility of
> conduction. When you think about a voltage controlled capacitor, you
> have to account for the effects of the voltage of the signal you are
> tuning (and those you are not tuning). The BB212 application is found
> characterized for signal levels less than 100mV (typically far less).
>
> Why? A half volt signal level at the terminals of the device (taking
> the BB212 for example) biased at 1V will swing the capacitance 100pF
> above and below where it would be thought to be tuned. Of course,
> correspondingly smaller signals have correspondingly smaller swings -
> it all depends on how much you can tolerate.
>
> This swing is also a problem for PIN diodes used as voltage variable
> attenuators.
>
> 73's
> Richard Clark, KB7QHC

Hi Richard

I made a capacitator rotator for my 6 foot AM loop using a hobby shop
servo to rotate the air variable cap. It works quite well and the
components are affordable.
The 3 section air capacitor allowed the use of each section by switching

to the appropriate section with a TO-5 relay.

That is Brute Force to tune an AM loop, but sure makes sense and uses affordable parts.

Jerry KD6JDJ

716. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 22:12:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <t3k1o49otfu023k1co4a535abdqud2issl@4ax.com>
Source record: 17940

On Wed, 28 Jan 2009 20:12:15 +0000, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>Thanks for the advice, however......

>>Why? A half volt signal level
>
>(that's surely one hell of an RF signal?)

I can see you don't know what environment you are living in. That, or
you live out in a pastoral setting and the house has no significant RF
contribution. Most of the world is urbanized and folks live within
short distances of large transmitters.

>Varicap diodes will always suffer from having their capacitance
>modulated by an RF signal impressed upon them. However, they do seem to
>work well enough - even when the RF level is pretty high (which must be
>the case especially with varicap-tuned oscillators - ie most VCOs and
>PLL systems).

You don't put the Varicap into the high level part of the circuit.
This is obvious from the outset.

>Presumably, the effect of this modulation will be to generate
>intermodulation products. In VCOs, this will simply appear as harmonics
>of the oscillator signal (which you would get anyway - even with a
>conventional tuning capacitor).

A conventional cap (and a conventional inductor, much less) will not
contribute harmonics because it is linear. Harmonics comes from
nonlinear components added by the circuit (partial conduction of an
active component that aids in the oscillation).

>Where multiple-frequency signals are
>present (like you have with the receiving loop), the most apparent
>effect of the modulation of the diode capacity will appear as
>crossmodulation and other nasties on the other signals in the passband.
>However, as varicaps ARE used for the tuning of the input of receiver RF
>stages, how do they 'get away with it'?

They don't if you are in such an environment. Again, if you don't
know your environment, then it's all a crap shoot. There is no
"getting away with it." The alternative is that the designer of a
product fully anticipated these issues and purposely chose a design
that minimized the effect of accidental contributions. Not all
designers are up to speed on the topic. The web is full of reported
failed projects that do not take bias Z and filtering into

consideration.

>>This swing is also a problem for PIN diodes used as voltage variable
>>attenuators.
>>
>My understanding of things is that the effectiveness of PIN diodes
>relies on them having a very poor performance at RF (especially at VHF
>and UHF). In attenuator circuits, they are forward biassed, and the DC
>current passing through them varies their RF resistance. However, the
>charges flowing through the junction are so 'sluggish' that they don't
>react to the rapidly-changing RF voltages. There is therefore negligible
>modulation of the RF resistance by the RF signals passing though them.

Poor performance when a PIN diode is first and foremost a diode for RF
and microwave applications? Only if you are using it for the wrong
reason (like using a 1N23 for 120V 60HZ power rectification).

PIN diodes are used as resistors and switches, not rectifiers.
Further, don't confuse the switch application as meaning fast turn-off
in the pico-to-subnanoseconds. Speed is relative to the application
of signal path steering where 100s of nanoseconds is more than
adequate.

Consult:
http://www.ieee.li/pdf/pin_diode_handbook.pdf

73's
Richard Clark, KB7QHC

717. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 22:22:16 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <b4m1o4h0vno1i8ecpl5rstm34a9kfe9pmv@4ax.com>
Source record: 17941

On Wed, 28 Jan 2009 20:19:20 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

> Hi Richard
>
> I made a capacitator rotator for my 6 foot AM loop using a hobby shop
>servo to rotate the air variable cap. It works quite well and the
>components are affordable.
> The 3 section air capacitor allowed the use of each section by switching
>to the appropriate section with a TO-5 relay.
>
> That is Brute Force to tune an AM loop, but sure makes sense and uses
>affordable parts.
>
> Jerry KD6JDJ
>

Hi Jerry,

You have certain advantages over most of the correspondents here. You are something of a gear head, you know where to find things, you know how to put them together, and you actually do it.

When I was a kid, I had the same bent, but my resources were from government surplus when you needed 400Hz 26V supplies (or other such oddities). It was back in the 60s when I started experimenting with Varicaps except they were 1N23 style diodes sold for their Varicap properties (which comes free with almost any diode); the real Varicaps sold for far too much for my allowance. Wasn't much tuning ratio back then either - about 3:1 to 5:1 - today's have more range than most air caps.

73's
Richard Clark, KB7QHC

718. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 23:25:14 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <JCZ7e8ialOgJFwfb@g3ohx.demon.co.uk>
Source record: 17942

In message <t3k1o49otfu023k1co4a535abdqud2issl@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Wed, 28 Jan 2009 20:12:15 +0000, Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>
>>Thanks for the advice, however......
>
>>>Why? A half volt signal level
>>
>>(that's surely one hell of an RF signal?)
>
>I can see you don't know what environment you are living in. That, or
>you live out in a pastoral setting and the house has no significant RF
>contribution. Most of the world is urbanized and folks live within
>short distances of large transmitters.
>
In the UK, most medium wave transmitters - and certainly those which are
high power - are located well out of town. I'm 20 miles west of London,
and the nearest MW TX is about 25 miles away (20 miles north of London,
the area which it is intended to serve).

>>Varicap diodes will always suffer from having their capacitance
>>modulated by an RF signal impressed upon them. However, they do seem to
>>work well enough - even when the RF level is pretty high (which must be
>>the case especially with varicap-tuned oscillators - ie most VCOs and
>>PLL systems).
>
>You don't put the Varicap into the high level part of the circuit.
>This is obvious from the outset.
>
Surely it is at the high voltage part of the circuit where the tuning
capacitor will be most effective in tuning (ie most kHz per pF)?

>>Presumably, the effect of this modulation will be to generate
>>intermodulation products. In VCOs, this will simply appear as harmonics
>>of the oscillator signal (which you would get anyway - even with a
>>conventional tuning capacitor).
>
>A conventional cap (and a conventional inductor, much less) will not
>contribute harmonics because it is linear.

Well, of course it won't. And neither will be an inductor (especially if
it's air-cored, as in a loop antenna).

>Harmonics comes from
>nonlinear components added by the circuit (partial conduction of an
>active component that aids in the oscillation).
>
>>Where multiple-frequency signals are
>>present (like you have with the receiving loop), the most apparent
>>effect of the modulation of the diode capacity will appear as
>>crossmodulation and other nasties on the other signals in the passband.
>>However, as varicaps ARE used for the tuning of the input of receiver RF
>>stages, how do they 'get away with it'?
>
>They don't if you are in such an environment. Again, if you don't
>know your environment, then it's all a crap shoot. There is no
>"getting away with it." The alternative is that the designer of a
>product fully anticipated these issues and purposely chose a design
>that minimized the effect of accidental contributions.

That's what I am interested in finding out. Just how DO they make
varicap diodes work adequately in (say) receiver front ends?

>Not all
>designers are up to speed on the topic. The web is full of reported
>failed projects that do not take bias Z and filtering into
>consideration.
>
>>>This swing is also a problem for PIN diodes used as voltage variable
>>>attenuators.
>>>
>>My understanding of things is that the effectiveness of PIN diodes
>>relies on them having a very poor performance at RF (especially at VHF
>>and UHF). In attenuator circuits, they are forward biassed, and the DC
>>current passing through them varies their RF resistance. However, the
>>charges flowing through the junction are so 'sluggish' that they don't
>>react to the rapidly-changing RF voltages. There is therefore negligible
>>modulation of the RF resistance by the RF signals passing though them.
>
>Poor performance when a PIN diode is first and foremost a diode for RF
>and microwave applications? Only if you are using it for the wrong
>reason (like using a 1N23 for 120V 60HZ power rectification).
>
My main personal experience with PIN diodes has been limited to their
use as 'variable resistors' in matched-impedance variable attenuators in
cable TV equipment. The essential characteristic is that there is a
chunk of ordinary (intrinsic) silicon between the P and the N layers. If
the RF signal alternates quickly enough, the electrons don't have time
to travel across the intrinsic layer before the polarity changes. As a
result, the diodes don't rectify. The higher the frequency, the better
they get at 'not rectifying'.

>PIN diodes are used as resistors and switches, not rectifiers.

See above.

>Further, don't confuse the switch application as meaning fast turn-off
>in the pico-to-subnanoseconds. Speed is relative to the application
>of signal path steering where 100s of nanoseconds is more than
>adequate.

While I've used ordinary diodes as RF switches, I can't remember if I
have used PIN diodes. I think that, at the RF levels involved in CATV,
an 1N4148 junction diode worked just as well or better.
>
>Consult:
>http://www.ieee.li/pdf/pin_diode_handbook.pdf
>
Thanks. Yes, I'll have a look, but it's how to use varicaps that I
really want to know about.
--

719. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-28 23:50:31 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <t6idnaun__3Wch3UnZ2dnUVZ_rrinZ2d@posted.easystreetonline>
Source record: 17943

Ian Jackson wrote:
> . . .
> That's what I am interested in finding out. Just how DO they make
> varicap diodes work adequately in (say) receiver front ends?
> . . .

Very carefully. One of the main tricks is to severely limit the tuning range by using fixed capacitors, switched as necessary, to make up the bulk of the circuit capacitance. This reduces two serious problems, nonlinearity which causes distortion, and temperature sensitivity. Harmonic distortion can be mitigated by following the tuned circuit with filters (provided that the total tuning range is narrow enough), but this doesn't correct intermod problems caused by the nonlinearity. A third potential problem if you use varicap for wide tuning range is that the control voltage has to be heroically filtered to prevent any noise or ripple from modulating the capacitance. The problem of nonlinear tuning is often solved by using a control loop, for example an AFC to detect whether the desired signal is properly tuned and to automatically adjust if it isn't.

I remember one of my first encounters with a varicap, where I naively used it as the bulk of the circuit capacitance in a homebrew VHF-to-BCB converter. I was leaning over the prototype, trying to find a signal, but hearing only hearing blip. blip-blip-blip. blip, sounding like signals going by as if a tuning dial was being spun. Then I realized it was synchronized with my breathing. Every time I exhaled, blip-blip-blip-blip. Then when I inhaled, they'd go by a little more slowly, the other way. That temperature sensitivity, incidentally, is extremely difficult to compensate, since it's different at every reverse bias setting. The only way to have a chance is to swamp the varicap C as much as possible with fixed C, then approximately compensate the remaining temperature drift.

Roy Lewallen, W7EL

720. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 00:22:33 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <4980f75a$0$4046$afc38c87@news.optusnet.com.au>
Source record: 17944

Roy Lewallen wrote:
> Ian Jackson wrote:
>> . . .
>> That's what I am interested in finding out. Just how DO they make
>> varicap diodes work adequately in (say) receiver front ends?
>> . . .
>
> Very carefully.

Might it help to use strings of varicaps? Sure I've seen that
done somewhere.

721. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 01:05:33 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <xh7gl.498$N5.55@nwrddc01.gnilink.net>
Source record: 17945

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:b4m1o4h0vno1i8ecpl5rstm34a9kfe9pmv@4ax.com...
> On Wed, 28 Jan 2009 20:19:20 GMT, "Jerry" <jerrymartes@verizon.net>
> wrote:
>
>> Hi Richard
>>
>> I made a capacitator rotator for my 6 foot AM loop using a hobby shop
>>servo to rotate the air variable cap. It works quite well and the
>>components are affordable.
>> The 3 section air capacitor allowed the use of each section by switching
>>to the appropriate section with a TO-5 relay.
>>
>> That is Brute Force to tune an AM loop, but sure makes sense and uses
>>affordable parts.
>>
>> Jerry KD6JDJ
>>
>
> Hi Jerry,
>
> You have certain advantages over most of the correspondents here. You
> are something of a gear head, you know where to find things, you know
> how to put them together, and you actually do it.
>
> When I was a kid, I had the same bent, but my resources were from
> government surplus when you needed 400Hz 26V supplies (or other such
> oddities). It was back in the 60s when I started experimenting with
> Varicaps except they were 1N23 style diodes sold for their Varicap
> properties (which comes free with almost any diode); the real Varicaps
> sold for far too much for my allowance. Wasn't much tuning ratio back
> then either - about 3:1 to 5:1 - today's have more range than most air
> caps.
>
> 73's
> Richard Clark, KB7QHC

Hi Richard

I worked for Hoffman Labs in 1960 and had responsibility for designing and
developing a sweep frequency receiver for the US Navy. I used a varicap
to sweep the L.O.. I am not inclined to use a varicap where a lumped
capacitor will do the job.

Jerry KD6JDJ

722. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 02:38:50 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <B8idnajQec4gixzUnZ2dnUVZ_h6dnZ2d@posted.easystreetonline>
Source record: 17946

```
Clifford Heath wrote:
> Roy Lewallen wrote:
>> Ian Jackson wrote:
>>> . . .
>>> That's what I am interested in finding out. Just how DO they make
>>> varicap diodes work adequately in (say) receiver front ends?
>>> . . .
>>
>> Very carefully.
>
> Might it help to use strings of varicaps? Sure I've seen that
> done somewhere.

The only advantage I can see is that it would increase the amount of
distortion for a given level of signal, since the amount of capacitance
change with signal voltage would decrease. The tradeoff would be a
reduction in the capacitance and an increase in the required tuning voltage.

Roy Lewallen, W7EL
```

723. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 04:25:29 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <49813049$0$32004$afc38c87@news.optusnet.com.au>
Source record: 17947

Roy Lewallen wrote:
> Clifford Heath wrote:
>> Might it help to use strings of varicaps? Sure I've seen that
>> done somewhere.
> The only advantage I can see is that it would increase the amount of
> distortion for a given level of signal

Decrease, I think you mean. And yes, that's what I was thinking of.

724. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 05:19:42 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <41f2o4th4eahdeqtpuettkpa7jlgkd9cit@4ax.com>
Source record: 17948

On Thu, 29 Jan 2009 01:05:33 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

> Hi Richard
>
> I worked for Hoffman Labs in 1960 and had responsibility for designing and
>developing a sweep frequency receiver for the US Navy. I used a varicap
>to sweep the L.O.. I am not inclined to use a varicap where a lumped
>capacitor will do the job.
>

Hmmm, a swept frequency receiver for the Navy. Sounds like something
the spooks would listen to. Crypto or surveillance gear?

73's
Richard Clark, KB7QHC

725. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 06:23:32 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <EXbgl.547$N5.431@nwrddc01.gnilink.net>
Source record: 17949

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:41f2o4th4eahdeqtpuettkpa7jlgkd9cit@4ax.com...
> On Thu, 29 Jan 2009 01:05:33 GMT, "Jerry" <jerrymartes@verizon.net>
> wrote:
>
>> Hi Richard
>>
>> I worked for Hoffman Labs in 1960 and had responsibility for designing
>> and
>>developing a sweep frequency receiver for the US Navy. I used a varicap
>>to sweep the L.O.. I am not inclined to use a varicap where a lumped
>>capacitor will do the job.
>>
>
> Hmmm, a swept frequency receiver for the Navy. Sounds like something
> the spooks would listen to. Crypto or surveillance gear?
>
> 73's
> Richard Clark, KB7QHC

Hi Richard

You figured that out rather well and quickly too.

Jerry KD6JDJ

726. Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 06:41:17 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <hccgl.2848$Aw2.2816@nwrddc02.gnilink.net>
Source record: 17950

Is it feasable to remove the ferrite antenna from an am radio & replace it with an external multi-turn box loop with the same primary/secondary inductance?

727. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 06:49:00 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <gfj2o4lba3t8vkmov1h3l9ovs73ttqe968@4ax.com>
Source record: 17851

On Thu, 29 Jan 2009 06:23:32 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

>
>"Richard Clark" <kb7qhc@comcast.net> wrote in message
>news:41f2o4th4eahdeqtpuettkpa7jlgkd9cit@4ax.com...
>> On Thu, 29 Jan 2009 01:05:33 GMT, "Jerry" <jerrymartes@verizon.net>
>> wrote:
>>
>>> Hi Richard
>>>
>>> I worked for Hoffman Labs in 1960 and had responsibility for designing
>>> and
>>>developing a sweep frequency receiver for the US Navy. I used a varicap
>>>to sweep the L.O.. I am not inclined to use a varicap where a lumped
>>>capacitor will do the job.
>>>
>>
>> Hmmm, a swept frequency receiver for the Navy. Sounds like something
>> the spooks would listen to. Crypto or surveillance gear?
>>
>> 73's
>> Richard Clark, KB7QHC
>
> Hi Richard
>
> You figured that out rather well and quickly too.
>
> Jerry KD6JDJ
>

Hi Jerry,

I trained with CTs (Communication Techs, otherwise those who
maintained and used Crypto or surveillance gear). When they couldn't
figure out a technical problem they always called the Cal Lab (we had
total responsibility for anything electronic).

After the capture of the USS Pueblo, it was said by my buddies that
Marine sentries were posted at the entrances to the comm room - "just
in case."

Of course, this was a lead they offered so I would ask "To protect
them from the boarders?" to which they would say "No, the Marines
would go in and shoot the CTs." This was similar to my own days
aboard the USS Holland, which, when it went out to sea was accompanied

by a submarine whose reputed orders were to sink us if we were in jeopardy of being taken over. We had a technical library full of systems plans for the Boomers.

I also served with pig-boat submariners who spoke in hushed tones about the USS Thrasher and Scorpion. Then there was my time with the CBs who had spent more time in Nam than any Marines.

There was a lot of Black Humor in those days.

73's
Richard Clark, KB7QHC

728. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 07:06:11 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <Dzcgl.2850$Aw2.1693@nwrddc02.gnilink.net>
Source record: 17852

"Spin" <noemail@alone.invalid> wrote in message
news:hccgl.2848$Aw2.2816@nwrddc02.gnilink.net...
> Is it feasable to remove the ferrite antenna from an am radio & replace it
> with an external multi-turn box loop with the same primary/secondary
> inductance?

Hi Spin

I cant offer any information about removing the ferrite antenna and
replacing it with an external loop. But, I can tell you that a few turns
of wire from the loop, wrapped aroung the radio, with the original ferrite
antenna connected as normal, can be made to couple the external loop to the
receiver to greatly improve reception.

Jerry

729. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 07:52:59 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <-4ydneTaPN3C_RzUnZ2dnUVZ_szinZ2d@posted.easystreetonline>
Source record: 17853

```
Clifford Heath wrote:
> Roy Lewallen wrote:
>> Clifford Heath wrote:
>>> Might it help to use strings of varicaps? Sure I've seen that
>>> done somewhere.
>> The only advantage I can see is that it would increase the amount of
>> distortion for a given level of signal
>
> Decrease, I think you mean. And yes, that's what I was thinking of.

Yep, sorry, I did mean decrease. Thanks for catching it.

Roy Lewallen, W7EL
```

730. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 09:24:01 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <RAegl.567$N5.484@nwrddc01.gnilink.net>
Source record: 17854

Jerry;

I know how to couple an external loop to the internal ferrite antenna of the radio. I believe that i would get better nulls & gain by removing the internal antenna & directly connecting a box loop in it's place. Please correct me if i am in error.

"Jerry" <jerrymartes@verizon.net> wrote in message
news:Dzcgl.2850$Aw2.1693@nwrddc02.gnilink.net...
>
> "Spin" <noemail@alone.invalid> wrote in message
> news:hccgl.2848$Aw2.2816@nwrddc02.gnilink.net...
>> Is it feasable to remove the ferrite antenna from an am radio & replace
>> it with an external multi-turn box loop with the same primary/secondary
>> inductance?
>
>
> Hi Spin
>
> I cant offer any information about removing the ferrite antenna and
> replacing it with an external loop. But, I can tell you that a few turns
> of wire from the loop, wrapped aroung the radio, with the original ferrite
> antenna connected as normal, can be made to couple the external loop to
> the receiver to greatly improve reception.
>
> Jerry
>

731. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 12:16:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <S6hgl.2399$PE4.488@nlpi061.nbdc.sbc.com>
Source record: 17855

Spin wrote:
> Is it feasable to remove the ferrite antenna from an am radio & replace it
> with an external multi-turn box loop with the same primary/secondary
> inductance?

Most of those internal ferrite antennas that I have
seen are transformers or autotransformers for
impedance matching. It would be hard to couple an
external air core transformer as efficiently as
is possible with ferrite.
--
73, Cecil http://www.w5dxp.com

732. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 12:58:29 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <3ef0c23b-45b3-4c50-bcd9-1a7e97d21e29@t26g2000prh.googlegroups.com>
Source record: 17856

On Jan 29, 12:41 am, "Spin" <noem...@alone.invalid> wrote:
> Is it feasable to remove the ferrite antenna from an am radio & replace it
> with an external multi-turn box loop with the same primary/secondary
> inductance?

I wouldnt say its imposssible but it certainly would be a royal pain
getting the tuning to track right. I have coupled big antennas to
loopstick radios just by wrapping a few turns of wire around the radio
and connecting it to an external antenna. I have also wound a few
turns around the loopstick and brought it out to a jack for this
purpose. At least one commercial SW rx I owned was built this way.

Jimmie

733. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 13:45:49 UTC
From: joe <none@invalid.com>
Message-ID: <neigl.8$G02.4@newsfe15.iad>
Source record: 17857

JIMMIE wrote:

> On Jan 29, 12:41 am, "Spin" <noem...@alone.invalid> wrote:
>> Is it feasable to remove the ferrite antenna from an am radio & replace
>> it with an external multi-turn box loop with the same primary/secondary
>> inductance?
>
> I wouldnt say its imposssible but it certainly would be a royal pain
> getting the tuning to track right. I have coupled big antennas to
> loopstick radios just by wrapping a few turns of wire around the radio
> and connecting it to an external antenna. I have also wound a few
> turns around the loopstick and brought it out to a jack for this
> purpose. At least one commercial SW rx I owned was built this way.
>
> Jimmie

If you get the same inductances, coupling and can compensate for any difference in stray capacitance, it should work.

Ferrite antennas are used for their small size. Older tube radios used larger loop antennas.

Keep in mind there may be some DC voltages present on the ferrite antenna you may not want to take outside the radio. (In other words, while you could make the external loop work, there may be other reasons for not doing so.)

734. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 14:15:01 UTC
From: dave <dave@dave.dave>
Message-ID: <lrednXIOnbN7JBzUnZ2dnUVZ_g0AAAAA@earthlink.com>
Source record: 17858

Spin wrote:
> Is it feasable to remove the ferrite antenna from an am radio & replace it
> with an external multi-turn box loop with the same primary/secondary
> inductance?
>
>
It's hard to beat the SelectAtenna.

http://www.universal-radio.com/catalog/mwant/4316.html

735. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 14:44:39 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Wejgl.1033$Lr6.139@flpi143.ffdc.sbc.com>
Source record: 17859

dave wrote:
> It's hard to beat the SelectAtenna.
> http://www.universal-radio.com/catalog/mwant/4316.html

Wow, "+30 dB signal gain" from a passive tank circuit.
--
73, Cecil http://www.w5dxp.com

736. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 16:06:57 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <Bukgl.2942$Aw2.2149@nwrddc02.gnilink.net>
Source record: 17860

Hi Spin

There may be different rules for connecting external antennas depending on
if the objective is to get max gain or to get strongest null response.
An external, capacitor tuned loop is a high Q device and appreciates loose
coupling when used to receive weak signals.
If the objective of the loop is to null out a specific frequency, I
suspect the direct connection of the external loop will result in very
effective nulling.
I hope you try this antenna modification and report the results

Jerry KD6JDJ

"Spin" <noemail@alone.invalid> wrote in message
news:RAegl.567$N5.484@nwrddc01.gnilink.net...
> Jerry;
>
> I know how to couple an external loop to the internal ferrite antenna of
> the radio. I believe that i would get better nulls & gain by removing the
> internal antenna & directly connecting a box loop in it's place. Please
> correct me if i am in error.
>
> "Jerry" <jerrymartes@verizon.net> wrote in message
> news:Dzcgl.2850$Aw2.1693@nwrddc02.gnilink.net...
>>
>> "Spin" <noemail@alone.invalid> wrote in message
>> news:hccgl.2848$Aw2.2816@nwrddc02.gnilink.net...
>>> Is it feasable to remove the ferrite antenna from an am radio & replace
>>> it with an external multi-turn box loop with the same primary/secondary
>>> inductance?
>>
>>
>> Hi Spin
>>
>> I cant offer any information about removing the ferrite antenna and
>> replacing it with an external loop. But, I can tell you that a few
>> turns of wire from the loop, wrapped aroung the radio, with the original
>> ferrite antenna connected as normal, can be made to couple the external
>> loop to the receiver to greatly improve reception.
>>
>> Jerry
>>
>
>

737. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 16:31:28 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <j1m3o4l8l01qdn3isge3horr06ve7g9ifl@4ax.com>
Source record: 17861

On Thu, 29 Jan 2009 06:41:17 GMT, "Spin" <noemail@alone.invalid>
wrote:

>Is it feasable to remove the ferrite antenna from an am radio & replace it
>with an external multi-turn box loop with the same primary/secondary
>inductance?

Those with more than one coil (almost all) are not primary to
secondary relationships. One coil is the RF/Mixer stage, and the
other is the Oscillator stage and the ferrite provides the mixing path
as well as the signal pickup path. If you closely examine the
variable capacitor, you should see that it is also two independent
sections on the same frame (or inside the same enclosure). There
should also be a trimmer for each, one for peaking the RF, the other
for tracking the Oscillator. If there is a TRF stage, it will
probably have another coil/cap combo and probably with that coil as a
separate item.

It would help if you identify the "am radio."

73's
Richard Clark, KB7QHC

738. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 17:27:36 UTC
From: JB <nospam@goofball.net>
Message-ID: <cGlgl.2954$Aw2.350@nwrddc02.gnilink.net>
Source record: 17862

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:j1m3o4l8l01qdn3isge3horr06ve7g9ifl@4ax.com...
> On Thu, 29 Jan 2009 06:41:17 GMT, "Spin" <noemail@alone.invalid>
> wrote:
>
> >Is it feasable to remove the ferrite antenna from an am radio & replace
it
> >with an external multi-turn box loop with the same primary/secondary
> >inductance?
>
> Those with more than one coil (almost all) are not primary to
> secondary relationships. One coil is the RF/Mixer stage, and the
> other is the Oscillator stage and the ferrite provides the mixing path
> as well as the signal pickup path. If you closely examine the
> variable capacitor, you should see that it is also two independent
> sections on the same frame (or inside the same enclosure). There
> should also be a trimmer for each, one for peaking the RF, the other
> for tracking the Oscillator. If there is a TRF stage, it will
> probably have another coil/cap combo and probably with that coil as a
> separate item.
>
> It would help if you identify the "am radio."
>
> 73's
> Richard Clark, KB7QHC

This is why you would do just as well to add some turns to the ferrite
loopstick for an external antenna and simply shield the radio. That method
of coupling is very efficient.

739. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-29 21:57:09 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <498226c6$0$3321$afc38c87@news.optusnet.com.au>
Source record: 17863

Richard Clark wrote:
> Sounds like something the spooks would listen to.

Whereas now they're listening to this:
<http://www.winradio.com/home/g526e-ep.htm>

740. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 02:21:25 UTC
From: rhf.roy@gmail.com
Message-ID: <59219d56-08b0-4ae6-8584-ebb7099cc052@i18g2000prf.googlegroups.com>
Source record: 17864
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

http://groups.google.com/group/alt.personals.fetish/browse_thread/thread/7662ffc9f2a1c493?hl=en&q&_done=%2Fgroup%2Falt.personals.fetish%2Fbrowse_thread%2Fthread%2F7662ffc9f2a1c493%3Fhl%3Den%26q%3D

741. (OT) : PONG little spineless 'rhf' -aka- AssWideShut = NNTP-Posting-Host : 12.154.10.254 -proclaims- "Uncle Sam Goddamn"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 03:47:47 UTC
From: RHF <rhf-newsgroups@pacbell.net>
Message-ID: <7f1af4ea-6509-4971-85e5-bc34c747f02e@z27g2000prd.googlegroups.com>
Source record: 17865
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

On Jan 29, 6:21 pm, rhf....@gmail.com wrote:

- http://groups.google.moc/group/alt.personals.fetish/browse_thread/thr...

little spineless 'rhf' -aka- AssWideShut,
.
Thank You for Posting the Al Gore
-aka- Liberal Democrat Mantra
"Uncle Sam Goddamn" -by- Brother Ali
{Hey "Ali" ain't that a Muslim Name}
.
the real "RHF" - accept no substitutes ~ RHF
.
FWIW - little spineless 'rhf'
NNTP-Posting-Host : 12.154.10.254
Location : Wausa, Nebraska
.
REF Com = NNTP-Posting-Host: 12.154.10.250
http://groups.google.com/group/rec.radio.shortwave/msg/07bb07110d3ec4a9
-and- NNTP-Posting-Host : 12.154.10.254
.
-aka- AssWideShut @ 138Mail .Com
[NNTP-Posting-Host : 12.154.10.254]
http://groups.google.com/group/rec.radio.shortwave/msg/dd0dbca9b5f076cf
.
AssWideShut [A.W.S.] -former- President
Gay, Lesbian, Transgendered Shortwave Club
http://groups.google.com/group/rec.radio.shortwave/msg/dfbe78f2233ed54c
http://groups.google.com/group/rec.radio.shortwave/msg/81a6cb501836c9e5
http://groups.google.com/group/rec.radio.shortwave/msg/6f9707647c94d362
.
A.W.S. - You are a clear example of the new
2009 Obama Fairness Doctrine to Silence the
Political Opposition : Through Impersonation,
Lying and Attempted Intimidation.
.
.

742. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 03:49:07 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <UMugI.727$kB4.304@newsfe09.iad>
Source record: 17866

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:gfj2o4lba3t8vkmov1h3l9ovs73ttqe968@4ax.com...

<snip >

> After the capture of the USS Pueblo, it was said by my buddies that
> Marine sentries were posted at the entrances to the comm room - "just
> in case."
>
> Of course, this was a lead they offered so I would ask "To protect
> them from the boarders?" to which they would say "No, the Marines
> would go in and shoot the CTs." This was similar to my own days
> aboard the USS Holland, which, when it went out to sea was accompanied
> by a submarine whose reputed orders were to sink us if we were in
> jeopardy of being taken over. We had a technical library full of
> systems plans for the Boomers.

I was a CT from 1962 to 1972, when I foolishly volunteered for conversion to EW (but that's another story). A few CT's were ordered to sensitive assignments aboard submarines and the rumors ran hot and heavy for that program, too. They included, "You need uniforms with other rating insignia. Nobody can see a CT coming off a submarine." and "On liberty overseas, you have an armed guard with you to shoot you if there's any chance you'll be captured."

There is no greater rumor mill than the US military. (If asked, I'm ready with a "square needle in the left nut" story.)

743. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 03:59:45 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <125b10ae-60d4-4dc2-9ed7-8f928b53dbea@r15g2000prh.googlegroups.com>
Source record: 17867

On Jan 25, 12:59 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:5afc33b2-0138-436d-b50b-077030ee4034@r15g2000prh.googlegroups.com...
> On Jan 13, 2:44 pm, "Dave" <no...@nowhere.com> wrote:
>
> >> infinite
> >Is that your final answer
>
> > >or is your last posting the final answer ?
>
> >The clock starts NOW
>
> that is the same as my last posting... and is still correct!

Going back to the physics books which takes time. Skin depth formula
is derived from the assumption that the radiator is a perfect
conductor where the depth is "finite". A non perfect conductor is some
what different.
Art

744. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 04:06:47 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <37ed483e-7e8f-4228-8749-308ffd445ce1@a12g2000pro.googlegroups.com>
Source record: 17868

On Jan 23, 5:05 pm, "Dave" <no...@nowhere.com> wrote:
> "Richard Harrison" <richardharri...@webtv.net> wrote in message
>
> news:14160-497A4804-5203@storefull-3171.bay.webtv.net...
>
> > Art wrote:
> > "David just for the record, skin depth is proportional to
> > frequency----."
>
> > Not exactly. Skin depth is inversely proportional to the square root of
> > the frequency.
>
> > For example at 1 Hz the skin depth is about 2.6 in. in copper. At 10 Hz.
> > it is about 0.826 in. and at 100 Hz the depth is about 0.260 in. and at
> > 1000 Hz the depth is 0.0826 in. etc.
>
> > Best regards, Richard Harrison, KB5WZI
>
> don't confuse him with the facts!

My facts were correct as stated. Richard stated the "exact"
proportions
which is really nit picking. Physics books say it is "proportional"
which states that it is frequency change what affects skin depth. It
is stated exactly that way in the book
that Richard has just obtained and quoted
Art

745. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 04:12:46 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <37vgl.74945$Nq5.62857@newsfe24.iad>
Source record: 17869

"JB" <nospam@goofball.net> wrote in message
news:cGlgl.2954$Aw2.350@nwrddc02.gnilink.net...
> "Richard Clark" <kb7qhc@comcast.net> wrote in message

< snip >

> ... you would do just as well to add some turns to the ferrite
> loopstick for an external antenna and simply shield the radio. That
method
> of coupling is very efficient.

In a weak signal area (metal building, basement, etc), any wire that runs outside can simply be wrapped a few times around the radio and grounded. The wrapping direction is dictated by the orientation of the internal loopstick. With a left-to-right loopstick, you wrap over the top and bottom

When I was in the Navy, I liked having a bedside radio, so that was my method. On one ship, I was near a door to an open deck, so I snaked a wire outside and strung about 30 feet of it behind a pipe. On another ship, I connected my wire through a cap to the telephone wire. I got a lot of click/pop noise on that one but I had a half-dozen AM stations I could hear OK.

Best reception job was on a carrier. The "weather-guessers" were high up, on the 07 level and I ran a cable to my office on the 02 level. They had their own WEFAX whip antenna feeding an antenna filter panel (AN/SRA-12, if you know what that is.) They didn't use the BCB output of the filter panel (but I did). It's good to be the Department Leading Chief.

746. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 05:27:34 UTC
From: rhf.roy@gmail.com
Message-ID: <6ad3696d-b907-43bf-935c-2f1bacf519bb@r15g2000prh.googlegroups.com>
Source record: 17870
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

http://groups.google.com/group/alt.personals.fetish/browse_thread/thread/7662ffc9f2a1c493?hl=en&q&_done=%2Fgroup%2Falt.personals.fetish%2Fbrowse_thread%2Fthread%2F7662ffc9f2a1c493%3Fhl%3Den%26q%3D

747. How to make a campus fully WI-Fi with bandwidth control software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 11:35:06 UTC
From: ankit.saxena2007@gmail.com
Message-ID: <cd44286c-7837-4483-8fa5-d37f7207f6de@b38g2000prf.googlegroups.com>
Source record: 17871

Dear

plz help me out to make a campus wifi which is

fully Secure means every user have own log in..
Bandwidth control
Access control

plz provide the neccessary product information with Rates.......

thanks

regards
Ankit Saxena
Sr Lead Officer
Agra (India)

748. Re: How to make a campus fully WI-Fi with bandwidth control software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 15:15:06 UTC
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Message-ID: <3f1be770-b4b6-48a9-a0a8-a75150661815@u18g2000pro.googlegroups.com>
Source record: 17872

On Jan 30, 3:35 am, ankit.saxena2...@gmail.com wrote:
> Dear
>
> plz help me out to make a campus wifi which is
>
> fully Secure means every user have own log in..
> Bandwidth control
> Access control
>
> plz provide the neccessary product information with Rates.......
>
> thanks
>
> regards
> Ankit Saxena
> Sr Lead Officer
> Agra (India)

I am sure there are many equipment vendors that would love to help you
with this. Have you asked?
Paul

749. Re: How to make a campus fully WI-Fi with bandwidth control software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 15:43:52 UTC
From: "-.-. --.-" <a@a.com>
Message-ID: <glv77v$79q$1@nnrp-beta.newsland.it>
Source record: 17873

"pdrahn@coinet.com" <co_farmer@yahoo.com> ha scritto nel messaggio
news:3f1be770-b4b6-48a9-a0a8-a75150661815@u18g2000pro.googlegroups.com...

> plz provide the neccessary product information with Rates.......
>
> thanks
>
> regards
> Ankit Saxena
> Sr Lead Officer
> Agra (India)

Mikrotik parts on the radio & sw control side - no matter.

As in topic specific question, plenty of commercial antenna manufacturer over the entire world. Good point for Hyperlink Technologies, now l-com (http://www.l-com.com/home.aspx) . Worked since 2001 with them, no problems at all.

I assume that the glue of all those elements, the brain, can build what you want. Required skills are:RF environments, routing, a bit of *nix OSes knowledge, and patience....

Regards,

-.-. --.- (Chris, Italy)

750. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 16:00:43 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <glv87e$r07a$1@tr22n12.aset.psu.edu>
Source record: 17874

Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe

This question may have been asked before, but is there a physical experiment that is good for verifying skin effect?

Initially, It seemed pretty straightforward, but giving some thought to the matter indicates it "ain't necessarily so".

I'm assuming that any thick conductor is going to have "skin" to any where I can put a sensor, so even if I drilled an internal sensor, the drill tunnel would form a part of the skin.

Giving that some thought, is it possible to make say a ribbed conductor that resembled a tubular heat sink, would this device allow for more current flow because of the greater amount of skin exposed compared to a solid tube?

Just a little thought experiment.

- 73 de Mike N3LI -

751. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 16:16:05 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c311875b-8f3c-4f1a-ad43-303a462cfc31@p2g2000prf.googlegroups.com>
Source record: 17875

On Jan 30, 10:00 am, Michael Coslo <m...@psu.edu> wrote:
> Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>
> This question may have been asked before, but is there a physical
> experiment that is good for verifying skin effect?
>
> Initially, It seemed pretty straightforward, but giving some thought to
> the matter indicates it "ain't necessarily so".
>
> I'm assuming that any thick conductor is going to have "skin" to any
> where I can put a sensor, so even if I drilled an internal sensor, the
> drill tunnel would form a part of the skin.
>
> Giving that some thought, is it possible to make say a ribbed conductor
> that resembled a tubular heat sink, would this device allow for more
> current flow because of the greater amount of skin exposed compared to a
> solid tube?
>
> Just a little thought experiment.
>
>   - 73 de Mike N3LI -

All charges will congregate along the peaks of the ribs so I can't see
how a greater
area is generated for utelization !
Regards
Art

752. Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 17:17:57 UTC
From: Chevy454 <nunyas@aol.com>
Message-ID: <kbd6o4l3aqobscic7ludlq69kiohb68j7c@4ax.com>
Source record: 17876

I want to put my 2M 5/8-wave mag-mount on the trunk lid, which slopes down at 20 degrees. I am concerned that most of my signal is going into the ground or outer space.

Can I bend the long whip so it stands vertically? Should I do it? does the downward slope of the ground plane leave a problem unaddressed?

Ken KC2JDY

753. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 18:20:45 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%xHgl.19965$ZP4.11161@nlpi067.nbdc.sbc.com>
Source record: 17877

Michael Coslo wrote:
> Just a little thought experiment.

Something else that I have wondered about:
Given a threaded rod with about double the surface
area of a piece of tubing, does the VF decrease?
Can a threaded rod be used to decrease the length
of a resonant vertical?
--
73, Cecil http://www.w5dxp.com

754. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 18:23:38 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <glvgja$a452$1@tr22n12.aset.psu.edu>
Source record: 17878

Art Unwin wrote:
> On Jan 30, 10:00 am, Michael Coslo <m...@psu.edu> wrote:
>> Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>>
>> This question may have been asked before, but is there a physical
>> experiment that is good for verifying skin effect?
>>
>> Initially, It seemed pretty straightforward, but giving some thought to
>> the matter indicates it "ain't necessarily so".
>>
>> I'm assuming that any thick conductor is going to have "skin" to any
>> where I can put a sensor, so even if I drilled an internal sensor, the
>> drill tunnel would form a part of the skin.
>>
>> Giving that some thought, is it possible to make say a ribbed conductor
>> that resembled a tubular heat sink, would this device allow for more
>> current flow because of the greater amount of skin exposed compared to a
>> solid tube?
>>
>> Just a little thought experiment.
>>
>> - 73 de Mike N3LI -
>
> All charges will congregate along the peaks of the ribs so I can't see
> how a greater area is generated for utelization !

Is what you are saying then that it is not truly a "skin" effect, which would have the maximum current riding near the surface, but rather some sort of effect that has that maximum current getting as far away from the center of the conductor? In other words the vertical component of the ribbing would have current flow as if it were at that distance from the surface of a solid conductor.

Not trying to change th eworld here, just trying to get my head around the issue. Lot's of things have misnomers as a name.

- 73 de Mike N3LI -

755. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 18:39:33 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <glvhh6$q80e$1@tr22n12.aset.psu.edu>
Source record: 17879

Chevy454 wrote:
> I want to put my 2M 5/8-wave mag-mount on the trunk lid, which slopes
> down at 20 degrees. I am concerned that most of my signal is going
> into the ground or outer space.
>
> Can I bend the long whip so it stands vertically? Should I do it?

Bend away, it will be okay.

>> does the downward slope of the ground plane leave a problem
>> unaddressed?

Not really. I mean there is probably some effect on SWR, but it is the
situation that you have. So go for it.

- 73 de Mike N3LI -

756. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 18:57:10 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <317c8530-c5e1-4063-8af7-02ea80c65e04@w1g2000prm.googlegroups.com>
Source record: 17880

"Cecil Moore" wrote
> Something else that I have wondered about:
> Given a threaded rod with about double the surface
> area of a piece of tubing, does the VF decrease?

The velocity of propagation of Andrew HJ8-50B, 3" OD, air-dielectric Heliax® is 0.933c.

Both the inner and outer conductors of that coaxial cable are heavily corrugated, so using threaded rod instead of smooth tubing may not matter much to v.p.

RF

757. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 19:06:53 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <vgIgl.19227$Ws1.2128@nlpi064.nbdc.sbc.com>
Source record: 17881

Michael Coslo wrote:
> Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>
> This question may have been asked before, but is there a physical
> experiment that is good for verifying skin effect?
>
> Initially, It seemed pretty straightforward, but giving some thought to
> the matter indicates it "ain't necessarily so".
>
> I'm assuming that any thick conductor is going to have "skin" to any
> where I can put a sensor, so even if I drilled an internal sensor, the
> drill tunnel would form a part of the skin.
>
> Giving that some thought, is it possible to make say a ribbed conductor
> that resembled a tubular heat sink, would this device allow for more
> current flow because of the greater amount of skin exposed compared to a
> solid tube?
>
> Just a little thought experiment.
>
> - 73 de Mike N3LI -

Mike;

The short answer is "YES". It's called a "Faraday Cage"....

Dave WD9BDZ

758. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 19:12:02 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <11c8f634-3aef-45ca-8d5f-c6e5a2e9fbf7@s1g2000prg.googlegroups.com>
Source record: 17882

On Jan 30, 12:23 pm, Michael Coslo <m...@psu.edu> wrote:
> Art Unwin wrote:
> > On Jan 30, 10:00 am, Michael Coslo <m...@psu.edu> wrote:
> >> Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>
> >> This question may have been asked before, but is there a physical
> >> experiment that is good for verifying skin effect?
>
> >> Initially, It seemed pretty straightforward, but giving some thought to
> >> the matter indicates it "ain't necessarily so".
>
> >> I'm assuming that any thick conductor is going to have "skin" to any
> >> where I can put a sensor, so even if I drilled an internal sensor, the
> >> drill tunnel would form a part of the skin.
>
> >> Giving that some thought, is it possible to make say a ribbed conductor
> >> that resembled a tubular heat sink, would this device allow for more
> >> current flow because of the greater amount of skin exposed compared to a
> >> solid tube?
>
> >> Just a little thought experiment.
>
> >>   - 73 de Mike N3LI -
>
> > All charges will congregate along the peaks of the ribs so I can't see
> > how a greater area is generated for utelization !
>
> Is what you are saying then that it is not truly a "skin" effect, which
> would have the maximum current riding near the surface, but rather some
> sort of effect that has that maximum current getting as far away from
> the center of the conductor? In other words the vertical component of
> the ribbing would have current flow as if it were at that distance from
> the surface of a solid conductor.
>
> Not trying to change th eworld here, just trying to get my head around
> the issue. Lot's of things have misnomers as a name.
>
>   - 73 de Mike N3LI -

What I am saying is that the ribs could prevent the flow of eddy
currents which operate as a completed circular circuit. This is how
the detection of fissures in material is found by non destructive
means. If eddy current is not present then radiation cannot occur,
thus all is not known about radiation !

Frankly I would like to know of another situation where energy flows
in the absence of a completed circuit which would provide more insight
of the circuitry of a fractional wavelength antenna, as the existing
explanation appears to be a bit to glib
Regards
Art

759. Re: Homebrew insulators

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 19:16:37 UTC
From: John Ferrell <johnferrell@sprintmail.com>
Message-ID: <vek6o4hsn4lvp17ihaf962rhdbvltirksr@4ax.com>
Source record: 17883

On Sun, 25 Jan 2009 18:31:31 -0800, "Tom Donaly"
<dtdonaly@sbcglobal.net> wrote:

>NoSPAM wrote:
>> "JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
>> news:07c6e5c8-0309-46c7-95ad-ecc19654b41b@q30g2000prq.googlegroups.com...
>>> I came across an old single LPDA TV antenna in the trask. It was
>>> pretty much FUBAR except for a coupe of feet of boom matrial and a few
>>> insulators. My XYL is into making models and castings and she can make
>>> a mold of the insulators easy enough. I was wondering if anyone knew
>>> of a good casting material that would be compatable with the
>>> requirements to build a single boom LPDA antenna to form the
>>> insulators. She is not usually concerned with strength or UV
>>> resistance so she couldnt help much on this part.
>>
>> Epoxy and polyester resins come to mind. If you are rebuilding the TV
>> antenna and not adding significant weight, these should work well. Use
>> the low viscosity resins sold in quarts, and not epoxy glues.
>>
>> For added strength, consider adding chopped fiberglass strands. For
>> reduced weight, glass microballoons may be added to the resins. They
>> are extremely light with a specific gravity of 0.18 to 0.25 depending on
>> the manufacturer. Phenolic microballoons are also available.
>>
>> For ultraviolet protection, a small amount of titanium dioxide may be
>> added (1 to 5%), but the microballoons will do a fair job alone.
>> Painting the finished insulators with acrylic paint (Krylonï¿½) will also
>> provide good UV resistance.
>>
>> Many marine supply stores carry these resins, the chopped fiberglass,
>> and the microballoons. Be extra careful with the polyester catalyst
>> (typically methyl-ethyl-ketone peroxide) as it is extremely damaging to
>> the eyes.
>>
>> Good luck with your project.
>>
>> 73, Dr. Barry L. Ornitz WA4VZQ
>> BLOrnitz84@charter.net [transpose the digits to reply]
>
>Where do you buy the titanium dioxide?
>73,
>Tom Donaly, KA6RUH
I use http://www.acp-composites.com/ACP-CAT.HTM

John Ferrell W8CCW

760. Re: How to make a campus fully WI-Fi with bandwidth control software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 19:32:10 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <vnk6o4lk1uae3863mqap0d7uoh8n8on05r@4ax.com>
Source record: 17884

On Fri, 30 Jan 2009 03:35:06 -0800 (PST), ankit.saxena2007@gmail.com
wrote:

>fully Secure means every user have own log in..

Unstall RADIUS server for authorization and authentication. WPA-RADIUS
will also deliver a unique encryption key for each session and user.
http://en.wikipedia.org/wiki/RADIUS

>Bandwidth control

http://www.etinc.com
http://en.wikipedia.org/wiki/Bandwidth_management
Bandwidth management is often built into the wireless router.

>Access control

See RADIUS server.

You also forgot authentication, traffic shaping, traffic monitoring,
user accounting, user monitoring, abuse detection, abuse management,
abuse mitigation, tech support, troubleshooting assistance, network
management (SNMP), key management, interference detection, etc.
Basically, you're building a system very much like a wire line ISP,
with the added bonus of an unreliable method of delivery.

>plz provide the neccessary product information with Rates.......

You're over your head. Please find a suitable network consultant that
can advise you and design a suitable system. There's more to building
a "campus" wi-fi system than just buying a bunch of boxes and wiring
them together. You're not ready to specify any products yet.

Some reading to help you ask better questions:
<http://802.11junk.com/jeffl/crud/Intel%20HotSpot%20Guide.pdf>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

761. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 20:10:59 UTC
From: Dave <noone@nowhere.com>
Message-ID: <n9Jgl.58$eK2.27@nwrddc01.gnilink.net>
Source record: 17885

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:11c8f634-3aef-45ca-8d5f-c6e5a2e9fbf7@s1g2000prg.googlegroups.com...
On Jan 30, 12:23 pm, Michael Coslo <m...@psu.edu> wrote:
>If eddy current is not present then radiation cannot occur,
>thus all is not known about radiation !

eddy currents needed for radiation, now that is a good one. do the eddy currents do the levitating of the magical diamagnetic neutrinos?

>Frankly I would like to know of another situation where energy flows
>in the absence of a completed circuit which would provide more insight
>of the circuitry of a fractional wavelength antenna, as the existing
>explanation appears to be a bit to glib

lets see:
1. energy flows from a flame, but not back into it
2. electromagnetic waves carry energy but don't need a complete circuit
3. sound waves carry energy but don't make a complete circuit
4. water waves carry energy but don't make a complete circuit
5. magical diamagnetic levitating neutrinos flow out from the sun and carry energy but never go back... actually a whole bunch of charged and uncharged particles flow out from the sun in the solar wind and never go back.

762. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 20:54:55 UTC
From: dplatt@radagast.org
Message-ID: <v16c56-bok.ln1@radagast.org>
Source record: 17888

In article <glv87e$r07a$1@tr22n12.aset.psu.edu>,
Michael Coslo <mjc5@psu.edu> wrote:

>Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>
>This question may have been asked before, but is there a physical
>experiment that is good for verifying skin effect?

Here's one, fairly simple in principle although I imagine it would require care in the implementation in order to prevent measurement error due to other effects.

[1] Construct a balanced transmission line using a pair of solid cylindrical conductors, having a known characteristic impedance.

[2] Terminate this transmission line with a dummy load - a pure resistance which matches the line's characteristic impedance.

[3] Drive this transmission line via a suitable RF signal generator or source, having a known (or carefully measured) output power into the line's impedance.

[4] Measure the RF power delivered into the line, and the RF power being dissipated by the dummy load. This could be done via an RF millivoltmeter, for instance.

[5] Calculate the amount of power being lost in the transmission line.

[6] Replace the solid cylindrical conductors in the transmission line with tubular conductors of the exact same material - hollow in the center, but with a wall width of at least 5 skin depths at the frequency you are using. Make sure that the outer diameter, and spacing of the tubular conductors matches the OD and spacing of the solid-conductor version of the line.

[7] Drive this new line, and repeat the measurements and calculate the loss in this line.

[8] Calculate the cross-sectional area of the solid conductor, and of the actual conductive portion of the hollow tubular conductor, and then the ratio between the two.

[9] Calculate the ratio between the power losses in the two types of transmission line.

[10] Compare these two ratios.

You could in principle do a similar test by making two dipoles out of solid and tubular elements, driving them with identical signals, and measuring the field strength. I suspect this test would be harder to do reliabily.

In either case, what you ought to be able to demonstrate, is that two transmission lines (one solid-conductor , the other hollow-conductor, but otherwise identical) which are long enough to exhibit substantial losses (e.g. 3 dB or 50% of the input power) would have near-identical losses, even though the amount of conductive material in the hollow-conductor line is less than 10% that of that in the solid-conductor line.

This would be good evidence that only the outer perimeter of the solid conductors was carrying a significant amount of current, since "removing the center" doesn't decrease the loss.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will boycott any company which has the gall to send me such ads!

763. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 20:59:05 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <HrKdndIINMiD9x7UnZ2dnUVZ_uudnZ2d@posted.easystreetonline>
Source record: 17886

Michael Coslo wrote:
> Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>
> This question may have been asked before, but is there a physical
> experiment that is good for verifying skin effect?
>
> Initially, It seemed pretty straightforward, but giving some thought to
> the matter indicates it "ain't necessarily so".
>
> I'm assuming that any thick conductor is going to have "skin" to any
> where I can put a sensor, so even if I drilled an internal sensor, the
> drill tunnel would form a part of the skin.
>
> Giving that some thought, is it possible to make say a ribbed conductor
> that resembled a tubular heat sink, would this device allow for more
> current flow because of the greater amount of skin exposed compared to a
> solid tube?
>
> Just a little thought experiment.
>
> - 73 de Mike N3LI -

An experiment to verify skin effect:

Make or obtain a self-contained RF signal source. Put it into a completely sealed conductive box -- PC board material soldered together with no gaps would be fine. Then try to detect any signal outside the box. If the RF current could penetrate the conductive material, that is, if there were no skin effect, you'll be able to detect the signal.

Here's another: http://w8ji.com/skindepth.htm.

The problem with your ribbed conductor is the same general thing that causes skin effect -- currents cause fields which repel other currents. The result would be more current on the tips of the ribs and less current in the valleys.

You can make a pretty good surface current sniffer by winding a bunch of turns of wire on 1/2 of a ferrite core, and connecting it to a scope or other detector. Put the two core piece ends on the surface, so it looks like an upside down U when on a flat horizontal conductor.

Roy Lewallen, W7EL

764. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 21:06:47 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <glvq57$jo4g$1@tr22n12.aset.psu.edu>
Source record: 17887

Cecil Moore wrote:
> Michael Coslo wrote:
>> Just a little thought experiment.
>
> Something else that I have wondered about:
> Given a threaded rod with about double the surface
> area of a piece of tubing, does the VF decrease?
> Can a threaded rod be used to decrease the length
> of a resonant vertical?

hmmm, interesting thought. I know where I can get a 8 foot threaded rod of the same diameter as a solid rod. Maybe an experiment in the works.

- 73 de Mike N3LI -

765. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 21:23:56 UTC
From: dave <dave@dave.dave>
Message-ID: <49836fec$0$31197$bd467cd0@news.dslextreme.com>
Source record: 17889

Chevy454 wrote:
> I want to put my 2M 5/8-wave mag-mount on the trunk lid, which slopes
> down at 20 degrees. I am concerned that most of my signal is going
> into the ground or outer space.
>
> Can I bend the long whip so it stands vertically? Should I do it?
> does the downward slope of the ground plane leave a problem
> unaddressed?
>
> Ken KC2JDY
5/8 Wave requires a ground, but not a ground plane. I'd get a proper
clamp, but bending will probably work OK.

766. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 21:56:13 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <MGA6PKV9d3gJFwPg@g3ohx.demon.co.uk>
Source record: 17890

In message <49836fec$0$31197$bd467cd0@news.dslextreme.com>, dave
<dave@dave.dave> writes
>Chevy454 wrote:
>> I want to put my 2M 5/8-wave mag-mount on the trunk lid, which slopes
>> down at 20 degrees. I am concerned that most of my signal is going
>> into the ground or outer space.
>> Can I bend the long whip so it stands vertically? Should I do it?
>> does the downward slope of the ground plane leave a problem
>> unaddressed?
>> Ken KC2JDY
>5/8 Wave requires a ground, but not a ground plane. I'd get a proper
>clamp, but bending will probably work OK.

I'm not really sure what you mean, but a '5/8' w/l is actually resonant
as a 3/4 w/l, and does need a ground plane to work against. On a car,
this is usually the roof or the trunk lid. Bending the antenna so that
it stands vertically will probably have negligible effect on impedance
or radiation.

But why the trunk lid? Surely the roof is better? On a vehicle, every
inch above the ground helps.
--
Ian

767. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-30 23:06:51 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d5b29399-794a-4cd9-a8a3-2f634e89b901@r37g2000prr.googlegroups.com>
Source record: 17891

On Jan 30, 2:10 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:11c8f634-3aef-45ca-8d5f-c6e5a2e9fbf7@s1g2000prg.googlegroups.com...
> On Jan 30, 12:23 pm, Michael Coslo <m...@psu.edu> wrote:
>
> >If eddy current is not present then radiation cannot occur,
> >thus all is not known about radiation !
>
> eddy currents needed for radiation, now that is a good one. do the eddy
> currents do the levitating of the magical diamagnetic neutrinos?
>
> >Frankly I would like to know of another situation where energy flows
> >in the absence of a completed circuit which would provide more insight
> >of the circuitry of a fractional wavelength antenna, as the existing
> >explanation appears to be a bit to glib
>
> lets see:
> 1. energy flows from a flame, but not back into it
> 2. electromagnetic waves carry energy but don't need a complete circuit
> 3. sound waves carry energy but don't make a complete circuit
> 4. water waves carry energy but don't make a complete circuit
> 5. magical diamagnetic levitating neutrinos flow out from the sun and carry
> energy but never go back... actually a whole bunch of charged and uncharged
> particles flow out from the sun in the solar wind and never go back.

No David
Can you point to another example where a circuit flows back on itself
as proposed by this group. All of the above provides a complete
circuit because of Newtons law but none of them retrace the forward
path. I always thought that all electrical circuits are closed. As for
eddy currents how else are you going to inpart spin on a particle?
It is done this way in all metal scrap sorting yards so you need to
learn how to google so you can catch up with everybody else. Now if
they do not take advantage of levitation methods via eddy currents I
would be interested on your take of that process
without retracing a path was some sort of rule of thumb

768. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 00:24:36 UTC
From: Chevy454 <nunyas@aol.com>
Message-ID: <p367o4dkff6jjnp2cr5gmrtmfs19lkchn0@4ax.com>
Source record: 17892

>In message <49836fec$0$31197$bd467cd0@news.dslextreme.com>, dave
><dave@dave.dave> writes
>But why the trunk lid? Surely the roof is better? On a vehicle, every
>inch above the ground helps.

The car is being used for 2M fox hunting. The Doppler antennas are on
the roof. The MFJ-1728B is on the trunk lid.

Are you saying that the 6 dB gain of this antenna is not high enough
for a 20 degree tilt to make a difference?

Ken KC2JDY

769. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 01:24:05 UTC
From: Dave <noone@nowhere.com>
Message-ID: <VKNgl.127$N02.41@nwrddc02.gnilink.net>
Source record: 17893

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:d5b29399-794a-4cd9-a8a3-2f634e89b901@r37g2000prr.googlegroups.com...
>Can you point to another example where a circuit flows back on itself
>as proposed by this group.

as proposed by you... your magical levitating diamagnetic neutrinos flow out
from the sun, but how do they ever get back if they get stuck on the
diamagnetic materials that you use for your magical antennas?

770. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 02:47:11 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <043feccd-2191-41a2-bfb6-75e59071dff1@w39g2000prb.googlegroups.com>
Source record: 17894

On Jan 30, 7:24 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:d5b29399-794a-4cd9-a8a3-2f634e89b901@r37g2000prr.googlegroups.com...
>
> >Can you point to another example where a circuit flows back on itself
> >as proposed by this group.
>
> as proposed by you... your magical levitating diamagnetic neutrinos flow out
> from the sun, but how do they ever get back if they get stuck on the
> diamagnetic materials that you use for your magical antennas?

oh my, and you are writing a book?

771. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 08:20:42 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <0j18o49oi68ho8hodv8ahdc6b7urigceqt@4ax.com>
Source record: 17895

On Fri, 30 Jan 2009 11:00:43 -0500, Michael Coslo <mjc5@psu.edu>
wrote:

>This question may have been asked before, but is there a physical
>experiment that is good for verifying skin effect?

and then later on (following some rather arcane metaphysical
theories):

On Fri, 30 Jan 2009 16:06:47 -0500, Michael Coslo <mjc5@psu.edu>
wrote:

>hmmm, interesting thought. I know where I can get a 8 foot threaded rod
>of the same diameter as a solid rod. Maybe an experiment in the works.

Hi Mike,

Measure the DC resistance and compare to the rather simple formula
that exists in any textbook that Art has spit on. I bet the
measurement agrees with the computation to within several percent.

Measure the AC resistance at a suitably high frequency. How much is
it a portion of the DC resistance?

Measure the AC resistance at a suitably higher frequency. How much is
it a portion of the DC resistance? Does that portion equal the bulk
conductive volume of the thread alone? If not, raise the frequency
some more until it does.

The threaded rod is rather an elaborate red-herring because you can do
the same thing with smooth wire, rod, plate, tube - choose what you
will, the volume of conductivity will be indicated by the change in
resistance.

Want to prove it is conducting only on the exterior surface?
Substitute equal diameter tube for solid rod and perform the same
three measurements above. If current cannot return back down the
inside, Resistance should climb astronomically (say by bumping the DC
frequency to 0.0001 Hz?)

73's
Richard Clark, KB7QHC

772. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 10:01:47 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <DX8pLZELGChJFw2o@g3ohx.demon.co.uk>
Source record: 17896

In message <p367o4dkff6jjnp2cr5gmrtmfs19lkchn0@4ax.com>, Chevy454
<nunyas@aol.com> writes
>>In message <49836fec$0$31197$bd467cd0@news.dslextreme.com>, dave
>><dave@dave.dave> writes
>>But why the trunk lid? Surely the roof is better? On a vehicle, every
>>inch above the ground helps.
>
>The car is being used for 2M fox hunting. The Doppler antennas are on
>the roof. The MFJ-1728B is on the trunk lid.
>
>Are you saying that the 6 dB gain of this antenna is not high enough
>for a 20 degree tilt to make a difference?
>
>Ken KC2JDY

Noted about the roof already being occupied.

Obviously, if the antenna is 'leaning backwards' at 20 degrees, the
radiation in the forward direction is going to point upwards more than
it would if ie was vertical and, of course, to the rear, the radiation
will point more downwards. However, even with the antenna dead vertical,
the shape of the body of the vehicle will distort the radiation pattern
considerably. I've had a quick Google, and this is one site which
provides some info:
<http://www.k6mhe.com/files/mobile_vhf_ant.pdf>
There will be lots of others.

This also might be of interest:
<http://74.125.77.132/search?q=cache:UYiK-NmAuo0J:www.dynmast.com.au/Ante
nnas/overview.html+antenna%2Bradiation%2B%225/8+wavelength%22&hl=en&ct=cl
nk&cd=25&gl=uk>

As I said, you probably won't notice much difference between vertical
and 20 degrees. But the only way to find out will be to try it.
--
Ian

773. Wave Meter FR-20/U US Navy on eBay

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 11:53:51 UTC
From: Henry Kolesnik <kolesnik@nojunksbcglobal.net>
Message-ID: <sZWgl.19274$Ws1.4930@nlpi064.nbdc.sbc.com>
Source record: 17897

I've had this unit for years, and could not find anything on it, even on
Google..
Its so rare its time for it to go..
Take a look..
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&ssPageName=STRK:MESELX:IT&item=280306625734

Hank wd5jfr

774. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 12:45:38 UTC
From: Dave <noone@nowhere.com>
Message-ID: <SJXgl.245$eK2.217@nwrddc01.gnilink.net>
Source record: 17898

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:043feccd-2191-41a2-bfb6-75e59071dff1@w39g2000prb.googlegroups.com...
On Jan 30, 7:24 pm, "Dave" <no...@nowhere.com> wrote:

>oh my, and you are writing a book?

i already have. just published the 2nd edition. of course you wouldn't be
interested since everything in books must be wrong.

775. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 15:04:33 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <df44f638-0f80-4948-bbe6-b0abf6aec72e@p36g2000prp.googlegroups.com>
Source record: 17899

On Jan 31, 6:45 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:043feccd-2191-41a2-bfb6-75e59071dff1@w39g2000prb.googlegroups.com...
> On Jan 30, 7:24 pm, "Dave" <no...@nowhere.com> wrote:
>
> >oh my, and you are writing a book?
>
> i already have. just published the 2nd edition. of course you wouldn't be
> interested since everything in books must be wrong.

2nd Edition?
Well congratulations to you
Art

776. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 16:18:49 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <498479e8$0$1116$4fafbaef@reader3.news.tin.it>
Source record: 17900

> Can I bend the long whip so it stands vertically? Should I do it?
> does the downward slope of the ground plane leave a problem
> unaddressed?

Although the issue may be more aesthetic than functional, I inform you that I have a magnetic mount (built by Kathrein) that has a swivel at the whip connection point. So, even if the mount is slanting, you can adjust the swivel so that the whip is perfectly vertical.

73

Tony I0JX
Rome, Italy

777. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 16:56:12 UTC
From: dave <dave@dave.dave>
Message-ID: <epOdnTB2KvUxHxnUnZ2dnUVZ_uudnZ2d@earthlink.com>
Source record: 17801

Antonio Vernucci wrote:
>> Can I bend the long whip so it stands vertically? Should I do it?
>> does the downward slope of the ground plane leave a problem
>> unaddressed?
>
> Although the issue may be more aesthetic than functional, I inform you
> that I have a magnetic mount (built by Kathrein) that has a swivel at
> the whip connection point. So, even if the mount is slanting, you can
> adjust the swivel so that the whip is perfectly vertical.
>
> 73
>
> Tony I0JX
> Rome, Italy

A 2 Meter 5/8 Wave antenna is too long for a magnet mount.

778. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 17:17:46 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <GOg4NuJ6eIhJFwXx@g3ohx.demon.co.uk>
Source record: 17802

In message <epOdnTB2KvUxHxnUnZ2dnUVZ_uudnZ2d@earthlink.com>, dave
<dave@dave.dave> writes
>Antonio Vernucci wrote:
>>> Can I bend the long whip so it stands vertically? Should I do it?
>>> does the downward slope of the ground plane leave a problem
>>> unaddressed?
>> Although the issue may be more aesthetic than functional, I inform
>>you that I have a magnetic mount (built by Kathrein) that has a
>>swivel at the whip connection point. So, even if the mount is
>>slanting, you can adjust the swivel so that the whip is perfectly vertical.
>> 73
>> Tony I0JX
>> Rome, Italy
>
>A 2 Meter 5/8 Wave antenna is too long for a magnet mount.

Not if the magmount is one of those which is around 7" diameter. Also,
with the one I have, the coil at the base is something like 4 turns of
1" internal diameter spring steel so, if the whip does hit something,
there's a lot of 'twang' in the system. There's almost no way that the
magnet can be dislodged.
--
Ian

779. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 17:38:09 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <2129o49fgqsprp3av3mfupvv7eonvpithm@4ax.com>
Source record: 17803

>>This question may have been asked before, but is there a physical
>>experiment that is good for verifying skin effect?
>Measure the AC resistance at a suitably high frequency. How much is
>it a portion of the DC resistance?

Just as I thought. An obvious method that quickly snuffs the growth
of grandiose patent claim enumerators.

If anyone can do it, you can't patent it - if no one can understand
it, then at least your patent can use obscure terms to get it
published as a poem.

The method in the description above claims:
1. A convector of charge particels aranged in an equilibrium of
static movement such that
2. movement of the equilibrated gaussian enclosed particels
3. has two motions not anticipated by Newton but proved by him to be
4. equil in force
5. reflecting at termination points or not
6. moving conversely in agreement with Einstein's wave theory
7. and thus was it ever
8. amen
10. send my money

e.e.cummings (would
crack a
smile)

780. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 22:01:42 UTC
From: dave <dave@dave.dave>
Message-ID: <yf-dncJwfurLVxnUnZ2dnUVZ_r6dnZ2d@earthlink.com>
Source record: 17804

Ian Jackson wrote:
> In message <epOdnTB2KvUxHxnUnZ2dnUVZ_uudnZ2d@earthlink.com>, dave
> <dave@dave.dave> writes
>> Antonio Vernucci wrote:
>>>> Can I bend the long whip so it stands vertically? Should I do it?
>>>> does the downward slope of the ground plane leave a problem
>>>> unaddressed?
>>> Although the issue may be more aesthetic than functional, I inform
>>> you that I have a magnetic mount (built by Kathrein) that has a
>>> swivel at the whip connection point. So, even if the mount is
>>> slanting, you can adjust the swivel so that the whip is perfectly
>>> vertical.
>>> 73
>>> Tony I0JX
>>> Rome, Italy
>>
>> A 2 Meter 5/8 Wave antenna is too long for a magnet mount.
>
> Not if the magmount is one of those which is around 7" diameter. Also,
> with the one I have, the coil at the base is something like 4 turns of
> 1" internal diameter spring steel so, if the whip does hit something,
> there's a lot of 'twang' in the system. There's almost no way that the
> magnet can be dislodged.

I stand corrected. Thanks.

http://www.hamcity.com/detail.aspx?ID=786

781. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-01-31 23:25:36 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <4984ddf1$0$1105$4fafbaef@reader3.news.tin.it>
Source record: 17805

>>>
>>> A 2 Meter 5/8 Wave antenna is too long for a magnet mount.
>>
>> Not if the magmount is one of those which is around 7" diameter. Also, with
>> the one I have, the coil at the base is something like 4 turns of 1" internal
>> diameter spring steel so, if the whip does hit something, there's a lot of
>> 'twang' in the system. There's almost no way that the magnet can be
>> dislodged.
>
> I stand corrected. Thanks.
>
> http://www.hamcity.com/detail.aspx?ID=786

If you go to page http://www.kathrein.de/de/car/montageanl/download/936127a.pdf (the English description follows the German description) you will see the 144-MHz Kathrein antenna model K 51 17 2, which is a 5/8 wavelength magnetic-mount antenna with a swivel. The whip is 1.38 m long (about 4.6 feet) and the magnet diameter is 95mm (about 3.7 inches). The tuning coil is located inside the mount..

That antenna is very common in Europe; they sell it since more than 30 years. Please note that 57% of the German highways have no speed limit (see http://en.wikipedia.org/wiki/Speed_limit) and it is not uncommon to see the big Mercedes or BMW running at more than 120 mph).

Another 144-MHz 5/8 wavelength antenna I have has a magnet of comparable diameter.

73

Tony I0JX

782. Re: N8WWM latest conviction...time served for driving without a license again. Too many drunk drivings

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 04:32:25 UTC
From: Steve <moparholic@hotmail.com>
Message-ID: <20090131233625.495$V0@newsreader.com>
Source record: 17806
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.cb

"RF BURNS" <rfburns33@hotmail.com> wrote:
> > court document below----
> > Defendant DOB Case Number Violation
> ADAIR, DOUGLAS 07/10/1958 08TRD019070102 DRIVING W/O COMPLY
> W/LIC REINSTATEMENT REQ
>
> Journal Entry
> 07/03/2008 Affidavit Filed 07/03/2008 00:00, Citation issued on
> 07/01/2008 00:00. Defendant summoned to appear for arraignment on
> 07/11/2008
> 09:00 in court room 1. Personal appearance required. [Clerk entry]
> 07/11/2008 PD fee assessed. [JUDGE KELLER]
> 07/11/2008 Defendant ordered to pay fee for PUBLIC DEFENDER FEE..
> [JUDGE KELLER]
> 07/11/2008 Defendant present with attorney DEFENDER, PUBLIC , #9999.
> [JUDGE KELLER]
> 07/11/2008 Defendant requests a public defender. [JUDGE KELLER]
> 07/11/2008 Defendant found indigent by Court and public defender
> assigned. [JUDGE KELLER]
> 07/11/2008 Defendant attorney enters plea of not guilty. To Assignment
> Commissioner for date. [JUDGE KELLER]
> 07/11/2008 At the request of defendant attorney, case continued to
> 08/01/2008 09:00 in courtroom 1 for prosecutor pre-trial. [JUDGE KELLER]
> 07/11/2008 Case assigned to JUDGE KELLER. Plea indicated. [JUDGE
> KELLER]
> 08/01/2008 Defendant present with attorney PUBLIC DEFENDER, #9999.
> [JUDGE KELLER]
> 08/01/2008 Defendant attorney withdraws prior plea. [JUDGE KELLER]
> 08/01/2008 Defendant attorney enters plea of no contest. [JUDGE
> KELLER]
> 08/01/2008 Defendant found guilty by judge. [JUDGE KELLER]
> 08/01/2008 FRA Shown. [JUDGE KELLER]
> 08/01/2008 Defendant sentenced to pay $150.00 fine and $60.00 costs.
> [JUDGE KELLER]
> 08/01/2008 Defendant sentenced to 60 days in CORRECTIONS CENTER OF
> NORTHWEST OHIO. SUSPENDED. 30 days suspended. Stay on jail until
> 09/26/2008 18:00. [JUDGE KELLER]
> 08/01/2008 Commitment form printed on 08/01/2008 10:18 by user
> SAWMILLER,STEFFANIE LYNN on station 195. [Clerk entry]
> 08/01/2008 At the request of defendant attorney, case continued to
> 09/26/2008 09:00 in courtroom 1 for operator's license. [JUDGE KELLER]
> 08/01/2008 Commitment form printed on 08/01/2008 10:22 by user

> JOOST,JAMIE SUE on station 203. [Clerk entry]
> 08/01/2008 Defendant applied to MONTHLY Payment Plan. Scheduled amount
> of $50.00. Begin date of 09/05/2008. [Clerk entry]
> 08/25/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
> 09/19/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
> 09/26/2008 Defendant present with attorney PUBLIC DEFENDER, #9999.
> [JUDGE KELLER]
> 09/26/2008 Defendant placed on Active probation for 2 years. Begin
> Date of 09/26/2008, end date of 09/26/2010. Probation Conditions are: NG
> OF SIMILAR OFFENSE [JUDGE KELLER]
> 09/26/2008 Defendant's sentence modified. [JUDGE KELLER]
> 09/26/2008 Commitment form printed on 09/26/2008 10:57 by user
> WALLS,KIMBERLY H on station 3430. [Clerk entry]
> 09/26/2008 Defendant sentenced to 15 days in CORRECTIONS CENTER OF
> NORTHWEST OHIO. ELECTRONIC MONITORING. [JUDGE KELLER]
> 09/26/2008 Commitment form printed on 09/26/2008 11:30 by user
> WALLS,KIMBERLY H on station 3430. [Clerk entry]
> 09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
> KUCKUCK,RON on station 2503. [Clerk entry]
> 09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
> KUCKUCK,RON on station 2503. [Clerk entry]
> 09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
> KUCKUCK,RON on station 2503. [Clerk entry]
> 10/22/2008 Payment Plan amount of $50 paid. [Clerk entry]
> 11/14/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
> 12/12/2008 Fines and/or Costs paid in full. [Clerk entry]
>>
>
>
One more conviction is small in the grand scheme of drunken N8WWM.

--
http://NewsReader.Com/

783. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 04:45:29 UTC
From: Harry H <harryharms@hotmail.com>
Message-ID: <JN9hl.16308$cu.4509@news-server.bigpond.net.au>
Source record: 17807

Ken,
If you consider how much movement that there is in a whip in a mobile situation, the 20 deg will not make much difference to it, I bent mine a fraction more, and it made little difference to the VSWR or the performance.

John VK2KC

"Chevy454" <nunyas@aol.com> wrote in message news:kbd6o4l3aqobscic7ludlq69kiohb68j7c@4ax.com...
>I want to put my 2M 5/8-wave mag-mount on the trunk lid, which slopes
> down at 20 degrees. I am concerned that most of my signal is going
> into the ground or outer space.
>
> Can I bend the long whip so it stands vertically? Should I do it?
> does the downward slope of the ground plane leave a problem
> unaddressed?
>
> Ken KC2JDY
>

784. Out of touch...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 11:56:37 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <9_fhl.693$Ye.174@bignews2.bellsouth.net>
Source record: 17808

Does anyone know how to find out what the latest callsigns are that have
been issued in 4-Land?

I've spent over an our at the FCC site with no luck whatsoever. TIA

Ed, N2ECW

785. Re: Out of touch...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 14:09:36 UTC
From: Ahso#1 <whax44@gmail.com>
Message-ID: <f8c94565-a183-491e-9b2d-1c23a79c3fdc@b1g2000yqg.googlegroups.com>
Source record: 17809

On Feb 1, 6:56 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:
> Does anyone know how to find out what the latest callsigns are that have
> been issued in 4-Land?
>
> I've spent over an our at the FCC site with no luck whatsoever. TIA
>
> Ed, N2ECW
Try here .

http://hamcall.net/call

786. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 16:59:45 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <p1lbo49h07qsle0as3ucugvm2ok8ajafso@4ax.com>
Source record: 17810

On Sun, 25 Jan 2009 14:27:33 -0800 (PST), nm5k@wt.net wrote:

>On Jan 25, 9:52ï¿½am, Cecil Moore <nos...@w5dxp.com> wrote:
>> n...@wt.net wrote:
>> > My 16 inch diameter circle loop for MW uses 12 turns.
>>
>> I know multiple loop antennas are lossy for transmitting.
>> Are they adequate for receiving because of the AGC dynamic
>> range in the receiver?
>> --
>> 73, Cecil ï¿½http://www.w5dxp.com
>
>I'm not sure how the AGC comes into play here..
>The 16 inch antenna provides plenty enough signal,
>even with no preamp used. You could turn the AGC on
>or off, wouldn't really matter. No different than any
>other antenna you might connect in that regard.
>They are lossy for transmitting, but on the MW bands
>you have so much excess signal level it's not an
>issue as far as receiving. Note the ferrite bar antenna,
>which is even more lossy than the open loops I use.
>It has no problem providing enough signal for a
>cheap portable radio.
>You might be surprised just how much level you can
>get from a tuned small loop on the low bands.
>As an example, that 16 inch loop provides more
>signal than the whip on a car. I once tried it with a
>delco radio in my truck. I hooked the loop up to it,
>and it was as hot as a firecracker vs the standard
>whip.
>The catch is the system is very high Q, and requires
>constant tuning of the cap as you change frequency.

That bites you when you use resonant loops. Of course non-resonant
loops don't have nearly the effective performance. Initial
selectivity to reduce the noise bandwidth before amplification or
mixing is why it is so common.

787. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 17:06:55 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <lhlbo4trrog632tshe2bued06t435odrlp@4ax.com>
Source record: 17811

On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
<christofire@btinternet.com> wrote:

>
>"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>news:4529fac2-7612-4314-8820-9a7fdefda9fa@o4g2000pra.googlegroups.com...
>On Jan 26, 8:38 am, "christofire" <christof...@btinternet.com> wrote:
>> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
>8><
>
>Hi Chris,
>I need a bit more with respect to your response in more layman terms
>
>When a multi turn helix is generated it can be used for both
>transmitting and receiving.
>When generating two helix antennas where one is contra wound and both
>are connected at the top
>you are saying that it will NOT be suitable for receiving !
>We know by common use that the single helix is good for transmitt and
>receive . So what exactly
>does the addition of the contra winding do to prevent the combination
>from receiving?
>Looking forward to your take on the question.
>Best regards
>Art
>
>
>OK. The term 'helix' is most often applied to the travelling-wave antenna
>invented by John Kraus, often used at VHF and above, which generates or
>receives a circularly-polarised wave predominantly in the direction of its
>axis. It is also used in 'normal-mode helix' for the type of monopole
>element often found on walkie talkies, that generates and receives a
>linearly-polarised wave. Both of these are connected to electronics at one
>end only.
>
>The discussion was about loop antennas having one or more turns, with both
>ends of the winding connected to electronics. This construction can also be
>called a solenoid, but it would provoke confusion to call it a 'helix'.
>
>When an alternating current is passed through a solenoid it generates a
>magnetic field, H, through its centre and around it - the transmitting case.
>When a solenoid is placed in an alternating magnetic field, if any lines of
>magnetic force pass through its winding it will generate an electro-motive

>force (EMF) from which current can be drawn to operate a receiver - the
>receiving case.
>
>In the transmitting case the physical characteristics (described by the
>intrinsic impedance) of 'space' - the air surrounding the solenoid - cause
>an electric field, E, to be generated from the alternating magnetic field,
>in phase with the H field that caused it (viz. the intrinsic impedance of
>space is real not complex) and together these in-phase E and H components
>give rise to an electromagnetic wave. A fraction of the input power will be
>radiated away from the solenoid in that wave, in directions where their
>vector cross-product ExH is not zero. The field strength of either the E or
>H component of the radiated wave will decay linearly with increasing
>distance.
>
>You can find a good account of this process in books like 'Antennas' by the
>late John Kraus but it isn't possible to get very far without use of
>mathematics. Chapter 7 of 'Antennas for all applications' by Kraus and
>Marhefka, the 2002 edition, covers all this in greater detail and would be
>worth obtaining if you're interested.
>
>The 'sense' (i.e. clockwise/anticlockwise with respect to some datum) of the
>winding of a solenoid, and the direction of the current applied, affect the
>polarity of the magnetic field it produces, and vice versa for the receiving
>case. Consequently, the phase with respect to time of the alternating H
>field (and the alternating E-field component of the radiated electromagnetic
>wave) depend on the 'sense' of the winding, but the polarisation of the
>radiated wave depends on the alignment of the axis of the solenoid. By
>convention, 'polarisation' is the angular direction of the E field in the
>outgoing wave, which is perpendicular to the H-field component, and both are
>perpendicular to the direction of propagation, so solenoid with a horizontal
>axis radiates a vertically-polarised (VP) radio wave - and receives best
>from a VP wave; the ferrite-rod-in-a-broadcast-receiver case.
>
>Back to my original point: if part of the winding of the solenoid is wound
>in the opposite sense to the rest of the winding then its contribution to
>the generated H field, or the EMF on receiving, will oppose the contribution
>from the other part of the winding. If the winding has half in each
>'sense', connected in series (like a non-inductive wire-wound resistor),
>then it will not generate an H field or develop an EMF from an incident H
>field, so it will not work as a transmitting or receiving antenna ... for
>the reasons outlined above.
>
>Enough?
>
>Chris
>

Say Chris, how about you set your Outhouse Express news/mail client to
use a quote character. It is good manners in news groups.

788. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 18:03:53 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <3d2594bd-4712-42f6-8978-7957a2fcd870@x16g2000prn.googlegroups.com>
Source record: 17812

On Jan 31, 5:01 am, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message <p367o4dkff6jjnp2cr5gmrtmfs19lkc...@4ax.com>, Chevy454
> <nun...@aol.com> writes
>
> >>In message <49836fec$0$31197$bd467...@news.dslextreme.com>, dave
> >><d...@dave.dave> writes
> >>But why the trunk lid? Surely the roof is better? On a vehicle, every
> >>inch above the ground helps.
>
> >The car is being used for 2M fox hunting. The Doppler antennas are on
> >the roof. The MFJ-1728B is on the trunk lid.
>
> >Are you saying that the 6 dB gain of this antenna is not high enough
> >for a 20 degree tilt to make a difference?
>
> >Ken KC2JDY
>
> Noted about the roof already being occupied.
>
> Obviously, if the antenna is 'leaning backwards' at 20 degrees, the
> radiation in the forward direction is going to point upwards more than
> it would if ie was vertical and, of course, to the rear, the radiation
> will point more downwards. However, even with the antenna dead vertical,
> the shape of the body of the vehicle will distort the radiation pattern
> considerably. I've had a quick Google, and this is one site which
> provides some info:
> <http://www.k6mhe.com/files/mobile_vhf_ant.pdf>
> There will be lots of others.
>
> This also might be of interest:
> <http://74.125.77.132/search?q=cache:UYiK-NmAuo0J:www.dynmast.com.au/Ante
> nnas/overview.html+antenna%2Bradiation%2B%225/8+wavelength%22&hl=en&ct=cl
> nk&cd=25&gl=uk>
>
> As I said, you probably won't notice much difference between vertical
> and 20 degrees. But the only way to find out will be to try it.
> --
> Ian

I think I remember from some place that tilting a vertical monopole
operating against a counterpoise increases the take off angle in both
the direction it is tilted and the direction opposite.

I welcome correction if I am in error.

Jimmie

789. Re: Out of touch...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 18:04:45 UTC
From: Tad Danley <tdanley@nospamatverizon.net>
Message-ID: <1vlhl.418$N02.321@nwrddc02.gnilink.net>
Source record: 17813

Ed Cregger wrote:
> Does anyone know how to find out what the latest callsigns are that have
> been issued in 4-Land?

AE7Q's site has a lot of great callsign info.
Here you go, Ed!
http://www.ae7q.com/list/GenLicAvail.php?REGION=4

73,
Tad, K3TD

790. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 18:46:26 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <kdrbo4h5qk63gn3c8ktpjs01s61vbin83a@4ax.com>
Source record: 17814

On Thu, 29 Jan 2009 08:31:28 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Thu, 29 Jan 2009 06:41:17 GMT, "Spin" <noemail@alone.invalid>
>wrote:
>
>>Is it feasable to remove the ferrite antenna from an am radio & replace it
>>with an external multi-turn box loop with the same primary/secondary
>>inductance?
>
>Those with more than one coil (almost all) are not primary to
>secondary relationships. One coil is the RF/Mixer stage, and the
>other is the Oscillator stage and the ferrite provides the mixing path
>as well as the signal pickup path. If you closely examine the
>variable capacitor, you should see that it is also two independent
>sections on the same frame (or inside the same enclosure). There
>should also be a trimmer for each, one for peaking the RF, the other
>for tracking the Oscillator. If there is a TRF stage, it will
>probably have another coil/cap combo and probably with that coil as a
>separate item.
>
>It would help if you identify the "am radio."
>
>73's
>Richard Clark, KB7QHC

Sorry no, they are not going to inject the LO via the loopstick. That
would lead to illegal and unacceptable emissions.

791. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 19:23:26 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <jetbo49a1ao2upppjk3m91h8cqtjg71opo@4ax.com>
Source record: 17815

On Fri, 30 Jan 2009 12:17:57 -0500, Chevy454 <nunyas@aol.com> wrote:

>I want to put my 2M 5/8-wave mag-mount on the trunk lid, which slopes
>down at 20 degrees. I am concerned that most of my signal is going
>into the ground or outer space.

Not that big of a deal. What is (1 - the cosine of 20 degrees)?

>
>Can I bend the long whip so it stands vertically? Should I do it?
>does the downward slope of the ground plane leave a problem
>unaddressed?
>
>Ken KC2JDY

It will probably upset the grip of the magnetic mount a bit. It will
probably give you a curved radiator. Not much effect, try it if you
like.

792. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 19:44:34 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <hg+SojDiufhJFwhc@g3ohx.demon.co.uk>
Source record: 17816

In message
<3d2594bd-4712-42f6-8978-7957a2fcd870@x16g2000prn.googlegroups.com>,
JIMMIE <JIMMIEDEE123@YAHOO.COM> writes
>On Jan 31, 5:01ï¿½am, Ian Jackson
><ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
>> In message <p367o4dkff6jjnp2cr5gmrtmfs19lkc...@4ax.com>, Chevy454
>> <nun...@aol.com> writes
>>
>> >>In message <49836fec$0$31197$bd467...@news.dslextreme.com>, dave
>> >><d...@dave.dave> writes
>> >>But why the trunk lid? Surely the roof is better? On a vehicle, every
>> >>inch above the ground helps.
>>
>> >The car is being used for 2M fox hunting. ï¿½The Doppler antennas are on
>> >the roof. ï¿½The MFJ-1728B is on the trunk lid.
>>
>> >Are you saying that the 6 dB gain of this antenna is not high enough
>> >for a 20 degree tilt to make a difference?
>>
>> >Ken KC2JDY
>>
>> Noted about the roof already being occupied.
>>
>> Obviously, if the antenna is 'leaning backwards' at 20 degrees, the
>> radiation in the forward direction is going to point upwards more than
>> it would if ie was vertical and, of course, to the rear, the radiation
>> will point more downwards. However, even with the antenna dead vertical,
>> the shape of the body of the vehicle will distort the radiation pattern
>> considerably. I've had a quick Google, and this is one site which
>> provides some info:
>> <http://www.k6mhe.com/files/mobile_vhf_ant.pdf>
>> There will be lots of others.
>>
>> This also might be of interest:
>> <http://74.125.77.132/search?q=cache:UYiK-NmAuo0J:www.dynmast.com.au/Ante
>> nnas/overview.html+antenna%2Bradiation%2B%225/8+wavelength%22&hl=en&ct=cl
>> nk&cd=25&gl=uk>
>>
>> As I said, you probably won't notice much difference between vertical
>> and 20 degrees. But the only way to find out will be to try it.
>> --
>> Ian
>
>I think I remember from some place that tilting a vertical monopole

>operating against a counterpoise increases the take off angle in both
>the direction it is tilted and the direction opposite.
>
>I welcome correction if I am in error.
>
>Jimmie

No. You are correct. At VHF/UHF, with a vertical antenna over ground, the strongest radiation is always at an angle upwards (say 10 to 40 degrees, depending on the type of antenna). If you tilt the antenna over, the angle of radiation is therefore lower in the direction of the tilt, and higher in the opposite direction. On a vehicle, a whip with a 'sporty' rearwards rake will probably radiate somewhat better towards the back. However, I wouldn't lose too much sleep about it.

As for the increased radiation in the direction of a counterpoise (or radial), it is in that direction that the counterpoise provides a better 'mirror image' of the antenna. This augments the radiation in that direction.
--
Ian

793. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 19:48:25 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <7QUUE5DJyfhJFwgR@g3ohx.demon.co.uk>
Source record: 17817

In message <jetbo49a1ao2upppjk3m91h8cqtjg71opo@4ax.com>, JosephKK
<quiettechblue@yahoo.com> writes
>On Fri, 30 Jan 2009 12:17:57 -0500, Chevy454 <nunyas@aol.com> wrote:
>
>>I want to put my 2M 5/8-wave mag-mount on the trunk lid, which slopes
>>down at 20 degrees. I am concerned that most of my signal is going
>>into the ground or outer space.
>
>Not that big of a deal. What is (1 - the cosine of 20 degrees)?
>
>>
>>Can I bend the long whip so it stands vertically? Should I do it?
>>does the downward slope of the ground plane leave a problem
>>unaddressed?
>>
>>Ken KC2JDY
>
>It will probably upset the grip of the magnetic mount a bit. It will
>probably give you a curved radiator. Not much effect, try it if you
>like.
>
Indeed. At speed, a nice, whippy stainless steel whip curves a scimitar.
Very pretty! But you'd have to be approaching Mach 1 to dislodge a 7"
limpet magmount.
--
Ian

794. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 19:51:34 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <G-idnaLd7qvXYBjUnZ2dneKdnZzinZ2d@bt.com>
Source record: 17818

"JosephKK" <quiettechblue@yahoo.com> wrote in message
news:lhlbo4trrog632tshe2bued06t435odrlp@4ax.com...
> On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
> <christofire@btinternet.com> wrote:
>
almighty snip -----

> Say Chris, how about you set your Outhouse Express news/mail client to
> use a quote character. It is good manners in news groups.
>

Joseph, please explain (and excuse my bad manners!) - use a quote character for what?

Are you referring to my use of the pairs of single quotation marks 'xxx' in what I'd written? I usually reserve double quotation marks "qqq" for actual quotations; things that people have said ... but I suspect you're referring to something else.

Chris

795. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 19:56:08 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <feydndOAPJ_BYxjUnZ2dnUVZ8hednZ2d@bt.com>
Source record: 17819

"Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
news:hg+SojDiufhJFwhc@g3ohx.demon.co.uk...
> In message
> <3d2594bd-4712-42f6-8978-7957a2fcd870@x16g2000prn.googlegroups.com>,
> JIMMIE <JIMMIEDEE123@YAHOO.COM> writes
>>On Jan 31, 5:01 am, Ian Jackson
>><ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
>>> In message <p367o4dkff6jjnp2cr5gmrtmfs19lkc...@4ax.com>, Chevy454
>>> <nun...@aol.com> writes
>>>
>>> >>In message <49836fec$0$31197$bd467...@news.dslextreme.com>, dave
>>> >><d...@dave.dave> writes
>>> >>But why the trunk lid? Surely the roof is better? On a vehicle, every
>>> >>inch above the ground helps.
>>>
>>> >The car is being used for 2M fox hunting. The Doppler antennas are on
>>> >the roof. The MFJ-1728B is on the trunk lid.
>>>
>>> >Are you saying that the 6 dB gain of this antenna is not high enough
>>> >for a 20 degree tilt to make a difference?
>>>
>>> >Ken KC2JDY
>>>
>>> Noted about the roof already being occupied.
>>>
>>> Obviously, if the antenna is 'leaning backwards' at 20 degrees, the
>>> radiation in the forward direction is going to point upwards more than
>>> it would if ie was vertical and, of course, to the rear, the radiation
>>> will point more downwards. However, even with the antenna dead vertical,
>>> the shape of the body of the vehicle will distort the radiation pattern
>>> considerably. I've had a quick Google, and this is one site which
>>> provides some info:
>>> <http://www.k6mhe.com/files/mobile_vhf_ant.pdf>
>>> There will be lots of others.
>>>
>>> This also might be of interest:
>>> <http://74.125.77.132/search?q=cache:UYiK-NmAuo0J:www.dynmast.com.au/Ante
>>> nnas/overview.html+antenna%2Bradiation%2B%225/8+wavelength%22&hl=en&ct=cl
>>> nk&cd=25&gl=uk>
>>>
>>> As I said, you probably won't notice much difference between vertical
>>> and 20 degrees. But the only way to find out will be to try it.
>>> --
>>> Ian

>>
>>I think I remember from some place that tilting a vertical monopole
>>operating against a counterpoise increases the take off angle in both
>>the direction it is tilted and the direction opposite.
>>
>>I welcome correction if I am in error.
>>
>>Jimmie
>
> No. You are correct. At VHF/UHF, with a vertical antenna over ground, the
> strongest radiation is always at an angle upwards (say 10 to 40 degrees,
> depending on the type of antenna). If you tilt the antenna over, the angle
> of radiation is therefore lower in the direction of the tilt, and higher
> in the opposite direction. On a vehicle, a whip with a 'sporty' rearwards
> rake will probably radiate somewhat better towards the back. However, I
> wouldn't lose too much sleep about it.
>
> As for the increased radiation in the direction of a counterpoise (or
> radial), it is in that direction that the counterpoise provides a better
> 'mirror image' of the antenna. This augments the radiation in that
> direction.
> --
> Ian

... but, surely, there will be more counterpoise to the front of a whip mounted on the boot/trunk lid so this should favour low-angle radiation towards the front - shouldn't it? If true, the result of tilting the whip back could be closer to onmi-directional at low elevations!

Chris

796. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 20:00:18 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <LZSdnXc004HLYhjUnZ2dnUVZ8vCdnZ2d@bt.com>
Source record: 17820

"JosephKK" <quiettechblue@yahoo.com> wrote in message
news:kdrbo4h5qk63gn3c8ktpjs01s61vbin83a@4ax.com...
> On Thu, 29 Jan 2009 08:31:28 -0800, Richard Clark <kb7qhc@comcast.net>
> wrote:
>
>>On Thu, 29 Jan 2009 06:41:17 GMT, "Spin" <noemail@alone.invalid>
>>wrote:
>>
>>>Is it feasable to remove the ferrite antenna from an am radio & replace
>>>it
>>>with an external multi-turn box loop with the same primary/secondary
>>>inductance?
>>
>>Those with more than one coil (almost all) are not primary to
>>secondary relationships. One coil is the RF/Mixer stage, and the
>>other is the Oscillator stage and the ferrite provides the mixing path
>>as well as the signal pickup path. If you closely examine the
>>variable capacitor, you should see that it is also two independent
>>sections on the same frame (or inside the same enclosure). There
>>should also be a trimmer for each, one for peaking the RF, the other
>>for tracking the Oscillator. If there is a TRF stage, it will
>>probably have another coil/cap combo and probably with that coil as a
>>separate item.
>>
>>It would help if you identify the "am radio."
>>
>>73's
>>Richard Clark, KB7QHC
>
> Sorry no, they are not going to inject the LO via the loopstick. That
> would lead to illegal and unacceptable emissions.

I thought this sounded wrong, and I've certainly never encountered a
domestic receiver designed to radiate its LO! Such a design could wreak
havoc in the medium wave band (where a low-side LO would be in-band for part
of its range).

Chris

797. Re: Antenna Replacement Experiment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 20:21:23 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <9uvbo4h1lb4pakop8n89f1t7n3cr96k81p@4ax.com>
Source record: 17821

On Sun, 01 Feb 2009 10:46:26 -0800, JosephKK <quiettechblue@yahoo.com>
wrote:

>Sorry no, they are not going to inject the LO via the loopstick. That
>would lead to illegal and unacceptable emissions.

Maybe so.

73's
Richard Clark, KB7QHC

798. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 20:28:24 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <951co4t8o2pggtvvk4u4r68edhrh0jkkrb@4ax.com>
Source record: 17822

On Sun, 1 Feb 2009 19:51:34 -0000, "christofire"
<christofire@btinternet.com> wrote:

>
>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>news:lhlbo4trrog632tshe2bued06t435odrlp@4ax.com...
>> On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>> <christofire@btinternet.com> wrote:
>>
>almighty snip -----
>
>> Say Chris, how about you set your Outhouse Express news/mail client to
>> use a quote character. It is good manners in news groups.
>>
>
>Joseph, please explain (and excuse my bad manners!) - use a quote character
>for what?
>
>Are you referring to my use of the pairs of single quotation marks 'xxx' in
>what I'd written? I usually reserve double quotation marks "qqq" for actual
>quotations; things that people have said ... but I suspect you're referring
>to something else.
>
>Chris
>

****

An example follows:
>On Mon, 26 Jan 2009 18:16:22 -0000, "christofire" <christofire@btinternet.com> wrote:
>
>>Hi Chris,
>>I need a bit more with respect to your response in more layman terms
>>
>>When a multi turn helix is generated it can be used for both
>>transmitting and receiving.
>>When generating two helix antennas where one is contra wound and both
>>are connected at the top
>>you are saying that it will NOT be suitable for receiving !
>>We know by common use that the single helix is good for transmitt and
>>receive . So what exactly
>>does the addition of the contra winding do to prevent the combination
>>from receiving?
>>Looking forward to your take on the question.
>>Best regards

>>Art
>>
>>
>>OK. The term 'helix' is most often applied to the travelling-wave antenna
>>invented by John Kraus, often used at VHF and above, which generates or
>>receives a circularly-polarised wave predominantly in the direction of its
>>axis. It is also used in 'normal-mode helix' for the type of monopole
>>element often found on walkie talkies, that generates and receives a
>>linearly-polarised wave. Both of these are connected to electronics at one
>>end only.
>>

This sample, directly above, shows no distinction between your writing
and the post you responded to. I pointed this out last week in
another thread. However, at the top of this post above the starred
line, you clearly follow quoting conventions.

73's
Richard Clark, KB7QHC

799. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 20:34:29 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <Ruz+7sHVdghJFw3x@g3ohx.demon.co.uk>
Source record: 17823

```
In message <feydndOAPJ_BYxjUnZ2dnUVZ8hednZ2d@bt.com>, christofire
<christofire@btinternet.com> writes
>
>"Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
>news:hg+SojDiufhJFwhc@g3ohx.demon.co.uk...
>> In message
>> <3d2594bd-4712-42f6-8978-7957a2fcd870@x16g2000prn.googlegroups.com>,
>> JIMMIE <JIMMIEDEE123@YAHOO.COM> writes
>>>On Jan 31, 5:01 am, Ian Jackson
>>><ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
>>>> In message <p367o4dkff6jjnp2cr5gmrtmfs19lkc...@4ax.com>, Chevy454
>>>> <nun...@aol.com> writes
>>>>
>>>> >>In message <49836fec$0$31197$bd467...@news.dslextreme.com>, dave
>>>> >><d...@dave.dave> writes
>>>> >>But why the trunk lid? Surely the roof is better? On a vehicle, every
>>>> >>inch above the ground helps.
>>>>
>>>> >The car is being used for 2M fox hunting. The Doppler antennas are on
>>>> >the roof. The MFJ-1728B is on the trunk lid.
>>>>
>>>> >Are you saying that the 6 dB gain of this antenna is not high enough
>>>> >for a 20 degree tilt to make a difference?
>>>>
>>>> >Ken KC2JDY
>>>>
>>>> Noted about the roof already being occupied.
>>>>
>>>> Obviously, if the antenna is 'leaning backwards' at 20 degrees, the
>>>> radiation in the forward direction is going to point upwards more than
>>>> it would if ie was vertical and, of course, to the rear, the radiation
>>>> will point more downwards. However, even with the antenna dead vertical,
>>>> the shape of the body of the vehicle will distort the radiation pattern
>>>> considerably. I've had a quick Google, and this is one site which
>>>> provides some info:
>>>> <http://www.k6mhe.com/files/mobile_vhf_ant.pdf>
>>>> There will be lots of others.
>>>>
>>>> This also might be of interest:
>>>> <http://74.125.77.132/search?q=cache:UYiK-NmAuo0J:www.dynmast.com.au/Ante
>>>> nnas/overview.html+antenna%2Bradiation%2B%225/8+wavelength%22&hl=en&ct=cl
>>>> nk&cd=25&gl=uk>
>>>>
>>>> As I said, you probably won't notice much difference between vertical
```

>>>> and 20 degrees. But the only way to find out will be to try it.
>>>> --
>>>> Ian
>>>
>>>I think I remember from some place that tilting a vertical monopole
>>>operating against a counterpoise increases the take off angle in both
>>>the direction it is tilted and the direction opposite.
>>>
>>>I welcome correction if I am in error.
>>>
>>>Jimmie
>>
>> No. You are correct. At VHF/UHF, with a vertical antenna over ground, the
>> strongest radiation is always at an angle upwards (say 10 to 40 degrees,
>> depending on the type of antenna). If you tilt the antenna over, the angle
>> of radiation is therefore lower in the direction of the tilt, and higher
>> in the opposite direction. On a vehicle, a whip with a 'sporty' rearwards
>> rake will probably radiate somewhat better towards the back. However, I
>> wouldn't lose too much sleep about it.
>>
>> As for the increased radiation in the direction of a counterpoise (or
>> radial), it is in that direction that the counterpoise provides a better
>> 'mirror image' of the antenna. This augments the radiation in that
>> direction.
>> --
>> Ian
>
>... but, surely, there will be more counterpoise to the front of a whip
>mounted on the boot/trunk lid so this should favour low-angle radiation
>towards the front - shouldn't it? If true, the result of tilting the whip
>back could be closer to onmi-directional at low elevations!
>
Quite possibly. Yet again, possibly not!

On my Mk3 Ford Escort hatchback, I had a 10m whip (1.5m base-loaded
DV27) mounted on the top lip (where the hinges are) in the centre. It
leaned back at about 20 degrees. I didn't notice that it was
particularly directional in any direction.

On 2m, I used to slap my 5/8 w/l on its magmount (gently, with its
rubber boot fitted) dead in the centre of the roof. When stationary, it
was (of course) vertical. But even though it would curve backwards at
speed, I wasn't aware of any obviously directionality.
--
Ian

800. Re: Bend the whip on a magmount?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-01 22:53:02 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <DN-dnQNuOddPuhvUnZ2dnUVZ_j-dnZ2d@posted.easystreetonline>
Source record: 17824

I suggest that some of the people wondering about this download the free EZNEC demo program from http://eznec.com, or any other modeling program. This is just the sort of question these programs can answer. Judging by a lot of the postings here, quite a few of you will be surprised by the results and should find it educational.

Roy Lewallen, W7EL

801. Re: Out of touch...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 00:23:26 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <_Xqhl.880$K8.730@bignews5.bellsouth.net>
Source record: 17825

Thanks, Tad. Much appreciated.

Ed, N2ECW

"Tad Danley" <tdanley@nospamatverizon.net> wrote in message
news:1vlhl.418$N02.321@nwrddc02.gnilink.net...
> Ed Cregger wrote:
>> Does anyone know how to find out what the latest callsigns are that have
>> been issued in 4-Land?
>
> AE7Q's site has a lot of great callsign info. Here you go, Ed!
> http://www.ae7q.com/list/GenLicAvail.php?REGION=4
>
> 73,
> Tad, K3TD

802. Re: Out of touch...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 00:24:01 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <BYqhl.881$K8.273@bignews5.bellsouth.net>
Source record: 17826

Thanks, my friend. Much appreciated.

Ed, N2ECW

"Ahso#1" <whax44@gmail.com> wrote in message
news:f8c94565-a183-491e-9b2d-1c23a79c3fdc@b1g2000yqg.googlegroups.com...
On Feb 1, 6:56 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:
> Does anyone know how to find out what the latest callsigns are that have
> been issued in 4-Land?
>
> I've spent over an our at the FCC site with no luck whatsoever. TIA
>
> Ed, N2ECW
Try here .

http://hamcall.net/call

803. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 00:26:25 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <TfCdndM02PwooBvUnZ2dnUVZ8o6dnZ2d@bt.com>
Source record: 17827

```
"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:951co4t8o2pggtvvk4u4r68edhrh0jkkrb@4ax.com...
> On Sun, 1 Feb 2009 19:51:34 -0000, "christofire"
> <christofire@btinternet.com> wrote:
>
>>
>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>news:lhlbo4trrog632tshe2bued06t435odrlp@4ax.com...
>>> On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>> <christofire@btinternet.com> wrote:
>>>
>>almighty snip -----
>>
>>> Say Chris, how about you set your Outhouse Express news/mail client to
>>> use a quote character. It is good manners in news groups.
>>>
>>
>>Joseph, please explain (and excuse my bad manners!) - use a quote
>>character
>>for what?
>>
>>Are you referring to my use of the pairs of single quotation marks 'xxx'
>>in
>>what I'd written? I usually reserve double quotation marks "qqq" for
>>actual
>>quotations; things that people have said ... but I suspect you're
>>referring
>>to something else.
>>
>>Chris
>>
>
> **************************
>
> An example follows:
>>On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>><christofire@btinternet.com> wrote:
>>
>>>Hi Chris,
>>>I need a bit more with respect to your response in more layman terms
>>>
>>>When a multi turn helix is generated it can be used for both
>>>transmitting and receiving.
>>>When generating two helix antennas where one is contra wound and both
```

>>>are connected at the top
>>>you are saying that it will NOT be suitable for receiving !
>>>We know by common use that the single helix is good for transmitt and
>>>receive . So what exactly
>>>does the addition of the contra winding do to prevent the combination
>>>from receiving?
>>>Looking forward to your take on the question.
>>>Best regards
>>>Art
>>>
>>>
>>>OK. The term 'helix' is most often applied to the travelling-wave
>>>antenna
>>>invented by John Kraus, often used at VHF and above, which generates or
>>>receives a circularly-polarised wave predominantly in the direction of
>>>its
>>>axis. It is also used in 'normal-mode helix' for the type of monopole
>>>element often found on walkie talkies, that generates and receives a
>>>linearly-polarised wave. Both of these are connected to electronics at
>>>one
>>>end only.
>>>
>
> This sample, directly above, shows no distinction between your writing
> and the post you responded to. I pointed this out last week in
> another thread. However, at the top of this post above the starred
> line, you clearly follow quoting conventions.
>
> 73's
> Richard Clark, KB7QHC

I have the 'Plain Text Settings' option 'Indent the original text with >
when replying or forwarding' ticked in OE and I can't account for why it
isn't working. I guess an incomplete sequence of cascaded >>>s could make
the historical record difficult to follow. I wonder if this has happened
when I have snipped the accumulated message trail.

Chris

804. Re: Out of touch...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 01:12:39 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <guhco4p3cocmoqd7qs69n49jbvssba8anq@4ax.com>
Source record: 17828

On Sun, 1 Feb 2009 06:56:37 -0500, "Ed Cregger"
<ecregger@bellsouff.net> wrote:

>Does anyone know how to find out what the latest callsigns are that have
>been issued in 4-Land?

Daily reports of renewals, new calls, and upgrades are at:
<http://www.qrz.com/new_hams.html>
Archives of previous reports are at:
<http://www.qrz.com/FCC-Reports/>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

805. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 02:00:12 UTC
From: dloydlavies@gmail.com
Message-ID: <8tkco45cp30jf9289il8jsqmh6901n9tal@4ax.com>
Source record: 17829
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave

On Sat, 24 Jan 2009 15:30:08 -0500, dloydlavies@gmail.com wrote:

>On Sat, 24 Jan 2009 13:44:20 -0500, "KC8QJP" <KC8QJP@yahoo.com> wrote:
>
>>
>>"RF BURNS" <rfburns33@hotmail.com> wrote in message
>
>fake spamer

806. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 02:42:23 UTC
From: dloydlavies@gmail.com
Message-ID: <dcnco4tkahe87ih6u60gpl5setrdbuosh6@4ax.com>
Source record: 17830
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

807. Re: Out of touch...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 02:53:30 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <G8thl.925$K8.409@bignews5.bellsouth.net>
Source record: 17831

Thanks, Jeff. Again, much appreciated.

Ed Cregger

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:guhco4p3cocmoqd7qs69n49jbvssba8anq@4ax.com...
> On Sun, 1 Feb 2009 06:56:37 -0500, "Ed Cregger"
> <ecregger@bellsouff.net> wrote:
>
>>Does anyone know how to find out what the latest callsigns are that have
>>been issued in 4-Land?
>
> Daily reports of renewals, new calls, and upgrades are at:
> <http://www.qrz.com/new_hams.html>
> Archives of previous reports are at:
> <http://www.qrz.com/FCC-Reports/>
>
>
> --
> Jeff Liebermann jeffl@cruzio.com
> 150 Felker St #D http://www.LearnByDestroying.com
> Santa Cruz CA 95060 http://802.11junk.com
> Skype: JeffLiebermann AE6KS 831-336-2558

808. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 17:16:48 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gm79q0ued2@news.jpl.nasa.gov>
Source record: 17832

Michael Coslo wrote:
> Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>
> This question may have been asked before, but is there a physical
> experiment that is good for verifying skin effect?
>
> Initially, It seemed pretty straightforward, but giving some thought to
> the matter indicates it "ain't necessarily so".
>
> I'm assuming that any thick conductor is going to have "skin" to any
> where I can put a sensor, so even if I drilled an internal sensor, the
> drill tunnel would form a part of the skin.
>
> Giving that some thought, is it possible to make say a ribbed conductor
> that resembled a tubular heat sink, would this device allow for more
> current flow because of the greater amount of skin exposed compared to a
> solid tube?
>
yes.

Look up Litz wire..

basically the same idea

However, just because it's not physically connected doesn't mean that
the magnetic field from a rib wouldn't affect the current in the
adjacent ribs (which is what's going on with the whole skin effect
thing, anyway)..

809. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 17:18:31 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gm79t7ued3@news.jpl.nasa.gov>
Source record: 17833

Cecil Moore wrote:
> Michael Coslo wrote:
>> Just a little thought experiment.
>
> Something else that I have wondered about:
> Given a threaded rod with about double the surface
> area of a piece of tubing, does the VF decrease?
> Can a threaded rod be used to decrease the length
> of a resonant vertical?

to the extent that the current is on the peaks of the threads.. in the limit it would be like a helically loaded antenna or that funky delay line coax with the spiral core? It would be complex to analyze, but gut feel is no.. the threads aren't tall and skinny enough in the run of the mill threaded rod.

810. Re: Contrary current flow within a radiator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 17:22:17 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gm7a49ued4@news.jpl.nasa.gov>
Source record: 17834

Dave Platt wrote:
> In article <glv87e$r07a$1@tr22n12.aset.psu.edu>,
> Michael Coslo <mjc5@psu.edu> wrote:
>
>> Warning - dilletente alert! Maybe even worth an embarrassing dolt cringe
>>
>> This question may have been asked before, but is there a physical
>> experiment that is good for verifying skin effect?
>
> Here's one, fairly simple in principle although I imagine it would
> require care in the implementation in order to prevent measurement
> error due to other effects.
>
> [1] Construct a balanced transmission line using a pair of solid
> cylindrical conductors, having a known characteristic impedance.
>
><experiment description>

> [10] Compare these two ratios.
>
> You could in principle do a similar test by making two dipoles out of
> solid and tubular elements, driving them with identical signals, and
> measuring the field strength. I suspect this test would be harder to
> do reliabily.
>
> In either case, what you ought to be able to demonstrate, is that two
> transmission lines (one solid-conductor , the other hollow-conductor,
> but otherwise identical) which are long enough to exhibit substantial
> losses (e.g. 3 dB or 50% of the input power) would have near-identical
> losses, even though the amount of conductive material in the
> hollow-conductor line is less than 10% that of that in the
> solid-conductor line.
>
> This would be good evidence that only the outer perimeter of the
> solid conductors was carrying a significant amount of current, since
> "removing the center" doesn't decrease the loss.
>

That's a whole lot too complex. What about measuring the AC resistance
of 3 or 4 parallel wires arranged in a triangle or square, and then
changing the space between the wires. (As is done, say, for HV
transmission lines..) Exactly the same effect.

811. KB5URP, Randy Chapman, read all about his crack dealing bust here!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 20:40:12 UTC
From: mopeyzakween@yahoo.com
Message-ID: <71ed23ac-8972-46d0-b9c9-828e9f286e4e@r15g2000prd.googlegroups.com>
Source record: 17835
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

He is also a queenie boy.

SEARCH ID SEARCH CRITERIA IDENTIFIER STATUS
3930206 Chapman,Randall CCH/NBF/SOR [9 results.] VIEW DETAILS

RESULTS FOR 'CHAPMAN,RANDALL '
Search ID 3930206 Back to Top
NAME DPS NUMBER SEX RACE DATE OF BIRTH CCH SOR NBF
CHAPMAN,RANDOLPH WILLARD 05388013 MALE WHITE 03/22/1961 VIEW

CHAPMAN,RANDOLPH WILLARD (SID: 05388013)
SEX RACE ETHNICITY HEIGHT WEIGHT EYES HAIR COLOR DL NUMBER FBI# DLU
MALE WHITE 508 195 BROWN Brown 10/26/1995
NAMES CHAPMAN,RANDOLPH WILLARD (Primary)
CHAPMAN,RANDY

BIRTHDATES 03/22/1961 (Primary)

Arrest Summary (TRN)
DATE OF ARREST SEQUENCE CODE TRACKING NUMBER AGENCY DESCRIPTION
01/16/1995 A 0007369727 TEXAS CITY PD View

Arrest Date: 01/16/1995 Arrest Summary

DATE OF ARREST 01/16/1995
SEQUENCE CODE A
TRACKING NUMBER 0007369727
AGENCY DESCRIPTION TX0840900 (TEXAS CITY PD)
CHARGE
TRACKING SUFFIX A001
OFFENSE DETAIL
INTERNAL AGENCY PERSON NUMBER 020130
INTERNAL AGENCY CASE NUMBER 95633
ARREST OFFENSE 35990014 (POSS CS PG 1 < 1G)
ARREST OFFENSE CITATION 481.115(b)
LEVEL AND DEGREE OF OFFENSE FS (FELONY - STATE JAIL FELONY)
DATE OF OFFENSE 01/16/1995
ARREST DISPOSITION 205 (HELD)
ARREST DISPOSITION DATE 01/16/1995
PROSECUTOR ORI REFERRED TO TX084015A (DISTRICT ATTORNEYS OFFICE
GALVESTON)
PROSECUTION DETAIL
AGENCY DESCRIPTION TX084015A (DISTRICT ATTORNEYS OFFICE
GALVESTON)
PROSECUTOR ACTION FIELD A (PROSECUTOR ACCEPTS THE CHARGE)

PROSECUTOR OFFENSE 35990014 (POSS CS PG 1 < 1G)
PROSECUTOR OFFENSE CITATION 481.115(b)
LEVEL AND DEGREE PROSECUTED FS (FELONY - STATE JAIL FELONY)
COURT STATUS
COURT SEQUENCE a
AGENCY DESCRIPTION TX084035J (122ND DISTRICT COURT GALVESTON)
COURT OFFENSE 35990014 (POSS CS PG 1 < 1G)
CITATION 481.115(b)
LEVEL AND DEGREE OFFENSE FS (FELONY - STATE JAIL FELONY)
COURT DISPOSITION 312 (DEFERRED)
COURT DISPOSITION DATE 09/21/1995
DATE OF SENTENCE/STATUS 09/21/1995
CAUSE NUMBER 95CR0800
FINAL PLEADING G (GUILTY)
COURT PROBATION 4Y
COURT FINE 200
COURT COSTS 157
AGENCY RECEIVING CUSTODY GCCSCD

812. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 22:09:33 UTC
From: Dave <noone@nowhere.com>
Message-ID: <xaKhl.819$eK2.441@nwrddc01.gnilink.net>
Source record: 17836

```
"christofire" <christofire@btinternet.com> wrote in message
news:TfCdndM02PwooBvUnZ2dnUVZ8o6dnZ2d@bt.com...
>
> "Richard Clark" <kb7qhc@comcast.net> wrote in message
> news:951co4t8o2pggtvvk4u4r68edhrh0jkkrb@4ax.com...
>> On Sun, 1 Feb 2009 19:51:34 -0000, "christofire"
>> <christofire@btinternet.com> wrote:
>>
>>>
>>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>>news:lhlbo4trrog632tshe2bued06t435odrlp@4ax.com...
>>>> On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>>> <christofire@btinternet.com> wrote:
>>>>
>>>almighty snip -----
>>>
>>>> Say Chris, how about you set your Outhouse Express news/mail client to
>>>> use a quote character. It is good manners in news groups.
>>>>
>>>
>>>Joseph, please explain (and excuse my bad manners!) - use a quote
>>>character
>>>for what?
>>>
>>>Are you referring to my use of the pairs of single quotation marks 'xxx'
>>>in
>>>what I'd written? I usually reserve double quotation marks "qqq" for
>>>actual
>>>quotations; things that people have said ... but I suspect you're
>>>referring
>>>to something else.
>>>
>>>Chris
>>>
>>
>> ***************************
>>
>> An example follows:
>>>On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>><christofire@btinternet.com> wrote:
>>>
>>>>Hi Chris,
>>>>I need a bit more with respect to your response in more layman terms
>>>>
```

>>>>When a multi turn helix is generated it can be used for both
>>>>transmitting and receiving.
>>>>When generating two helix antennas where one is contra wound and both
>>>>are connected at the top
>>>>you are saying that it will NOT be suitable for receiving !
>>>>We know by common use that the single helix is good for transmitt and
>>>>receive . So what exactly
>>>>does the addition of the contra winding do to prevent the combination
>>>>from receiving?
>>>>Looking forward to your take on the question.
>>>>Best regards
>>>>Art
>>>>
>>>>
>>>>OK. The term 'helix' is most often applied to the travelling-wave
>>>>antenna
>>>>invented by John Kraus, often used at VHF and above, which generates or
>>>>receives a circularly-polarised wave predominantly in the direction of
>>>>its
>>>>axis. It is also used in 'normal-mode helix' for the type of monopole
>>>>element often found on walkie talkies, that generates and receives a
>>>>linearly-polarised wave. Both of these are connected to electronics at
>>>>one
>>>>end only.
>>>>
>>
>> This sample, directly above, shows no distinction between your writing
>> and the post you responded to. I pointed this out last week in
>> another thread. However, at the top of this post above the starred
>> line, you clearly follow quoting conventions.
>>
>> 73's
>> Richard Clark, KB7QHC
>
>
> I have the 'Plain Text Settings' option 'Indent the original text with >
> when replying or forwarding' ticked in OE and I can't account for why it
> isn't working. I guess an incomplete sequence of cascaded >>>s could make
> the historical record difficult to follow. I wonder if this has happened
> when I have snipped the accumulated message trail.
>
> Chris
>

its not your fault. some news senders, like art, send in a format that oe
can't figure out how to indent and >. i have tried lots of combinations and
the only one that works is to send in html format with the vertical bar
quoting.

813. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 22:37:57 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <JZKdnYGH-55W6BrUnZ2dnUVZ8oeWnZ2d@bt.com>
Source record: 17837

```
"Dave" <noone@nowhere.com> wrote in message
news:xaKhl.819$eK2.441@nwrddc01.gnilink.net...
>
> "christofire" <christofire@btinternet.com> wrote in message
> news:TfCdndM02PwooBvUnZ2dnUVZ8o6dnZ2d@bt.com...
>>
>> "Richard Clark" <kb7qhc@comcast.net> wrote in message
>> news:951co4t8o2pggtvvk4u4r68edhrh0jkkrb@4ax.com...
>>> On Sun, 1 Feb 2009 19:51:34 -0000, "christofire"
>>> <christofire@btinternet.com> wrote:
>>>
>>>>
>>>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>>>news:lhlbo4trrog632tshe2bued06t435odrlp@4ax.com...
>>>>> On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>>>> <christofire@btinternet.com> wrote:
>>>>>
>>>>almighty snip -----
>>>>
>>>>> Say Chris, how about you set your Outhouse Express news/mail client to
>>>>> use a quote character. It is good manners in news groups.
>>>>>
>>>>
>>>>Joseph, please explain (and excuse my bad manners!) - use a quote
>>>>character
>>>>for what?
>>>>
>>>>Are you referring to my use of the pairs of single quotation marks 'xxx'
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>>>>what I'd written? I usually reserve double quotation marks "qqq" for
>>>>actual
>>>>quotations; things that people have said ... but I suspect you're
>>>>referring
>>>>to something else.
>>>>
>>>>Chris
>>>>
>>>
>>> ****************************
>>>
>>> An example follows:
>>>>On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>>><christofire@btinternet.com> wrote:
>>>>
```

>>>>>Hi Chris,
>>>>>I need a bit more with respect to your response in more layman terms
>>>>>
>>>>>When a multi turn helix is generated it can be used for both
>>>>>transmitting and receiving.
>>>>>When generating two helix antennas where one is contra wound and both
>>>>>are connected at the top
>>>>>you are saying that it will NOT be suitable for receiving !
>>>>>We know by common use that the single helix is good for transmitt and
>>>>>receive . So what exactly
>>>>>does the addition of the contra winding do to prevent the combination
>>>>>from receiving?
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>>>>>Best regards
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>>>>>
>>>>>
>>>>>OK. The term 'helix' is most often applied to the travelling-wave
>>>>>antenna
>>>>>invented by John Kraus, often used at VHF and above, which generates or
>>>>>receives a circularly-polarised wave predominantly in the direction of
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>>>>>axis. It is also used in 'normal-mode helix' for the type of monopole
>>>>>element often found on walkie talkies, that generates and receives a
>>>>>linearly-polarised wave. Both of these are connected to electronics at
>>>>>one
>>>>>end only.
>>>>>
>>>
>>> This sample, directly above, shows no distinction between your writing
>>> and the post you responded to. I pointed this out last week in
>>> another thread. However, at the top of this post above the starred
>>> line, you clearly follow quoting conventions.
>>>
>>> 73's
>>> Richard Clark, KB7QHC
>>
>>
>> I have the 'Plain Text Settings' option 'Indent the original text with >
>> when replying or forwarding' ticked in OE and I can't account for why it
>> isn't working. I guess an incomplete sequence of cascaded >>>s could
>> make the historical record difficult to follow. I wonder if this has
>> happened when I have snipped the accumulated message trail.
>>
>> Chris
>>
>
> its not your fault. some news senders, like art, send in a format that oe
> can't figure out how to indent and >. i have tried lots of combinations
> and the only one that works is to send in html format with the vertical

> bar quoting.

Thank you for that ... and I gather some get equally irritated about people sending HTML.

Chris

814. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 22:47:14 UTC
From: Dave <noone@nowhere.com>
Message-ID: <SJKhl.707$N02.269@nwrddc02.gnilink.net>
Source record: 17838

```
"christofire" <christofire@btinternet.com> wrote in message
news:JZKdnYGH-55W6BrUnZ2dnUVZ8oeWnZ2d@bt.com...
>
> "Dave" <noone@nowhere.com> wrote in message
> news:xaKhl.819$eK2.441@nwrddc01.gnilink.net...
>>
>> "christofire" <christofire@btinternet.com> wrote in message
>> news:TfCdndM02PwooBvUnZ2dnUVZ8o6dnZ2d@bt.com...
>>>
>>> "Richard Clark" <kb7qhc@comcast.net> wrote in message
>>> news:951co4t8o2pggtvvk4u4r68edhrh0jkkrb@4ax.com...
>>>> On Sun, 1 Feb 2009 19:51:34 -0000, "christofire"
>>>> <christofire@btinternet.com> wrote:
>>>>
>>>>>
>>>>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>>>>news:lhlbo4trrog632tshe2bued06t435odrlp@4ax.com...
>>>>>> On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>>>>> <christofire@btinternet.com> wrote:
>>>>>>
>>>>>almighty snip -----
>>>>>
>>>>>> Say Chris, how about you set your Outhouse Express news/mail client
>>>>>> to
>>>>>> use a quote character. It is good manners in news groups.
>>>>>>
>>>>>
>>>>>Joseph, please explain (and excuse my bad manners!) - use a quote
>>>>>character
>>>>>for what?
>>>>>
>>>>>Are you referring to my use of the pairs of single quotation marks
>>>>>'xxx' in
>>>>>what I'd written? I usually reserve double quotation marks "qqq" for
>>>>>actual
>>>>>quotations; things that people have said ... but I suspect you're
>>>>>referring
>>>>>to something else.
>>>>>
>>>>>Chris
>>>>>
>>>>
>>>> ****************************
>>>>
```

>>>> An example follows:
>>>>>On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>>>><christofire@btinternet.com> wrote:
>>>>>
>>>>>>Hi Chris,
>>>>>>I need a bit more with respect to your response in more layman terms
>>>>>>
>>>>>>When a multi turn helix is generated it can be used for both
>>>>>>transmitting and receiving.
>>>>>>When generating two helix antennas where one is contra wound and both
>>>>>>are connected at the top
>>>>>>you are saying that it will NOT be suitable for receiving !
>>>>>>We know by common use that the single helix is good for transmitt and
>>>>>>receive . So what exactly
>>>>>>does the addition of the contra winding do to prevent the combination
>>>>>>from receiving?
>>>>>>Looking forward to your take on the question.
>>>>>>Best regards
>>>>>>Art
>>>>>>
>>>>>>
>>>>>>OK. The term 'helix' is most often applied to the travelling-wave
>>>>>>antenna
>>>>>>invented by John Kraus, often used at VHF and above, which generates
>>>>>>or
>>>>>>receives a circularly-polarised wave predominantly in the direction of
>>>>>>its
>>>>>>axis. It is also used in 'normal-mode helix' for the type of monopole
>>>>>>element often found on walkie talkies, that generates and receives a
>>>>>>linearly-polarised wave. Both of these are connected to electronics
>>>>>>at one
>>>>>>end only.
>>>>>>
>>>>
>>>> This sample, directly above, shows no distinction between your writing
>>>> and the post you responded to. I pointed this out last week in
>>>> another thread. However, at the top of this post above the starred
>>>> line, you clearly follow quoting conventions.
>>>>
>>>> 73's
>>>> Richard Clark, KB7QHC
>>>
>>>
>>> I have the 'Plain Text Settings' option 'Indent the original text with >
>>> when replying or forwarding' ticked in OE and I can't account for why it
>>> isn't working. I guess an incomplete sequence of cascaded >>>s could
>>> make the historical record difficult to follow. I wonder if this has
>>> happened when I have snipped the accumulated message trail.
>>>
>>> Chris

>>>
>>
>> its not your fault. some news senders, like art, send in a format that
>> oe can't figure out how to indent and >. i have tried lots of
>> combinations and the only one that works is to send in html format with
>> the vertical bar quoting.
>
> Thank you for that ... and I gather some get equally irritated about
> people sending HTML.
>
> Chris
>
of course. i prefer the nice safe plain text, but i guess not everyone sees
it that way.

815. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 23:51:49 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <dh0fo4t8qiqaafljc8trv5a117gh4je5tf@4ax.com>
Source record: 17840

On Mon, 02 Feb 2009 22:47:14 GMT, "Dave" <noone@nowhere.com> wrote:

>> Thank you for that ... and I gather some get equally irritated about
>> people sending HTML.
>>
>of course. i prefer the nice safe plain text, but i guess not everyone sees
>it that way.

Hi All,

Not everyone sees in HTML either, and getting drenched by all of those superfluous mark up script tags doesn't add to the conversation.

Outlook has a horrible reputation for launching insecure processes and for spreading virus through marked up pages - no one knows the risk offered by the content of any post until they open it. I use Agent which has a safe HTML renderer, but I still don't need someone's infected posting sitting in the thread.

The addition of charts, graphs and pictures could be put to good use here. It "might" even bring sense to contrary current flow of gaussian vector particels. In that sense, HTML would be a virtue; however that isn't the convention of an already established text-based group. (And the counter graphics of contrary current flow "might" bring a blush to the easily offended.)

But if we went fully marked-up - what new vistas for rhetorical exploration would be found there! ....and it still wouldn't solve anything.

73's
Richard Clark, KB7QHC

816. RF Design Magazine

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-02 23:53:30 UTC
From: LOP <castles@yestertronics.com>
Message-ID: <49878777$0$5495$bbae4d71@news.suddenlink.net>
Source record: 17839

I have a large collection of the RF Design Magazine. I am looking for someone in the Bay Area or Sacramento Area of California that would be interested in these.

Thanks, Don and Liz

817. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-03 01:31:46 UTC
From: dloydlavies@gmail.com
Message-ID: <vj7fo41vi7qsn6um991egm9thg41mjghb4@4ax.com>
Source record: 17841
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

818. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-03 01:33:31 UTC
From: dloydlavies@gmail.com
Message-ID: <an7fo4heqtrk2pn7htsfh1se09aq5bfhda@4ax.com>
Source record: 17842
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave

On Sat, 24 Jan 2009 15:30:08 -0500, dloydlavies@gmail.com wrote:

>On Sat, 24 Jan 2009 13:44:20 -0500, "KC8QJP" <KC8QJP@yahoo.com> wrote:
>
>>
>>"RF BURNS" <rfburns33@hotmail.com> wrote in message
>
>fake spamer

819. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-03 01:33:54 UTC
From: an old freind <kb9rqz@amsat.org>
Message-ID: <777e21fc-167f-436a-acee-c00fea45bb93@m22g2000vbl.googlegroups.com>
Source record: 17843
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Feb 2, 3:40 pm, mopeyzakw...@yahoo.com wrote:
> He is also a queenie boy.

if you have a beef contact LS at the FCC

820. Re: Roskien omistusoikeus

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-03 06:34:58 UTC
From: Eemil Peters <eemil@toyota.net>
Message-ID: <1233642898.775026@nntp0.iseek.com.au>
Source record: 17844

Eik&#65533; tosiaan kaltaiseni asiaa ja kunnollista ja v&#65533;h&#65533;ist&#65533; materiaalia tuottava saa olla heid&#65533;n h&#65533;irik&#65533;inneilt&#65533;&#65533;n vapaata nettisivustoa en&#65533;&#65533; mist&#65533;&#65533;n?
Eik&#65533; tosiaan saada n&#65533;it&#65533; ties mit&#65533; torimyyntikokouksiaan pit&#65533;vi&#65533; "Fallstr&#65533;m&kump" padottua pois tai edes rajattua asiaankuulumattominme juttuhaahuiluine nyyssiin.

Heill&#65533; kun tuntuu olevan SUOPO-verorahoitteinen luulo siit&#65533;, ett&#65533; saavat h&#65533;irik&#65533;id&#65533; asiaa-aiheisiin kuulumattomilla kirjoituksillaan nettiaiheosastoissa miss&#65533; vaan! Onko tosiaan nettimme valjastettu t&#65533;llaisten "rahasta sensuuriohjelmiaan ja ties mit&#65533; moskansa" myyvien, tyrkytt&#65533;vien trollien

Ja minusta on viimeist&#65533;&#65533;n nyt pantava my&#65533;s valtioneuvostossa huomioon, ettei heid&#65533;n h&#65533;irint&#65533;ns&#65533; rajoitu en&#65533;&#65533; edes nettiin. Vaan ovat hyv&#65533;kk&#65533;&#65533;t alkaneet ottaa laajastin hampaisiinsa asiallisen ydinkritiikin YVA-TEM tiedostojen kaltaista valtion materiaalia my&#65533;s. Terveiset nyt suoraan Sis&#65533;minmisteri&#65533;&#65533;n asti! Niin kauan kun t&#65533;ss&#65533; ydin-SUPO turvottamassa Suomessamme on demokratialle tilaa on syyt&#65533; panna t&#65533;llaiselle sikailukehitystaantumiselle tiukat suitset. Kun maamme oikeusministeri Tuija Brax haikailee maamme saattamiseksi takaisin demokratian uomaan jokainen ymm&#65533;rt&#65533;&#65533;, ett&#65533; t&#65533;llaisia edell&#65533;mainittuja ydinpainostusrypp&#65533;it&#65533; ei saa antaa mellastaa kuin siat pellossa!

821. Why dont you two Sand Box Kids

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-03 17:54:01 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <044221c9-0dad-4b74-933b-cf74ec26ab9a@n33g2000pri.googlegroups.com>
Source record: 17845

Take your argument elsewhere
Or Grow the HELL Up and act like Adults.

822. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-03 18:41:51 UTC
From: dloydlavies@gmail.com
Message-ID: <dv3ho4dd3bgchrjo6rog3p2lkjvrv4pv0h@4ax.com>
Source record: 17846
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

823. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 00:35:08 UTC
From: dloydlavies@gmail.com
Message-ID: <qloho4l7brt4h8mmfuj3bs2ort8ukth5bo@4ax.com>
Source record: 17847
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
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>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

824. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 08:12:54 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <d6cil.793$Vk5.383@newsfe13.iad>
Source record: 17848

"JosephKK" <quiettechblue@yahoo.com> wrote in message
news:p1lbo49h07qsle0as3ucugvm2ok8ajafso@4ax.com...
> On Sun, 25 Jan 2009 14:27:33 -0800 (PST), nm5k@wt.net wrote:

< snip >

> >You might be surprised just how much level you can
> >get from a tuned small loop on the low bands.
> >As an example, that 16 inch loop provides more
> >signal than the whip on a car. I once tried it with a
> >delco radio in my truck. I hooked the loop up to it,
> >and it was as hot as a firecracker vs the standard
> >whip.
> >The catch is the system is very high Q, and requires
> >constant tuning of the cap as you change frequency.
>
> That bites you when you use resonant loops. Of course non-resonant
> loops don't have nearly the effective performance. Initial
> selectivity to reduce the noise bandwidth before amplification or
> mixing is why it is so common.
>

I recall medium-size table radios having a loop antenna in/on the back
cover. I don't know whether there was also a ferrite rod inside.

825. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 08:18:59 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Wbcil.844$Vk5.632@newsfe13.iad>
Source record: 17849

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:dh0fo4t8qiqaafljc8trv5a117gh4je5tf@4ax.com...

< snip >

> But if we went fully marked-up - what new vistas for rhetorical
> exploration would be found there!

We'd have smiley-faces and frowney faces. That would be good ... wouldn't
it? (Just kidding. No brickbats, please.)

826. HLP Antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 08:27:49 UTC
From: Little_skip <Little_skip.3cf2db8@radiobanter.com>
Message-ID: <Little_skip.3cf2db8@radiobanter.com>
Source record: 17850

Hi everyone,

I would like some help with the HLP (Hybrid Log-Periodic) Antennas if possible. I know nothing about antennas, yet I have a paper to write about HLP Antennas (characteristics, calibration and so on) and I didn't find anything about them. I found only datasheets for some of the HLP antennas (mostly from TDK). Would it be a start to search about log-periodic antennas and adapt the information? What would be the difference between them?

Maybe it would sound like a stupid question to all of you, but I really don't know where to start. Can someone give me a bit of help?

Thank you.

--
Little_skip

827. Re: HLP Antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 16:32:15 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <jqjil.1013$N02.681@nwrddc02.gnilink.net>
Source record: 17751

"Little_skip" <Little_skip.3cf2db8@radiobanter.com> wrote in message
news:Little_skip.3cf2db8@radiobanter.com...
>
> Hi everyone,
>
> I would like some help with the HLP (Hybrid Log-Periodic) Antennas if
> possible. I know nothing about antennas, yet I have a paper to write
> about HLP Antennas (characteristics, calibration and so on) and I
> didn't find anything about them. I found only datasheets for some of
> the HLP antennas (mostly from TDK). Would it be a start to search about
> log-periodic antennas and adapt the information? What would be the
> difference between them?
>
> Maybe it would sound like a stupid question to all of you, but I really
> don't know where to start. Can someone give me a bit of help?
>
> Thank you.
>
>
>
>
> --
> Little_skip

Hi Little

You are really in luck. You say you have to write about an antenna but
dont know anything about antennas. That implies that you now get to learn
about antennas unless you are content with writing about things you "dont
hnow anything about".
Get the guy who is having you write to buy you a copy of EZNEC. You can
model whatever antenna you want to get data on.

Jerry KD6JDJ

828. Re: HLP Antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 17:19:32 UTC
From: JB <nospam@goofball.net>
Message-ID: <E6kil.1021$N02.775@nwrddc02.gnilink.net>
Source record: 17752

"Little_skip" <Little_skip.3cf2db8@radiobanter.com> wrote in message
news:Little_skip.3cf2db8@radiobanter.com...
>
> Hi everyone,
>
> I would like some help with the HLP (Hybrid Log-Periodic) Antennas if
> possible. I know nothing about antennas, yet I have a paper to write
> about HLP Antennas (characteristics, calibration and so on) and I
> didn't find anything about them. I found only datasheets for some of
> the HLP antennas (mostly from TDK). Would it be a start to search about
> log-periodic antennas and adapt the information? What would be the
> difference between them?
>
> Maybe it would sound like a stupid question to all of you, but I really
> don't know where to start. Can someone give me a bit of help?
>
> Thank you.
> Little_skip

Hybrid Log-Periodic refers to a Log-Periodic Dipole Array antenna that uses other types of elements in order to improve on some characteristic. One example would be the typical TV antennas that have a UHF Yagi with Corner Reflector using the same feed as the Log-Periodic elements. That example is a hybrid of all three classic antenna configurations. If you were speaking of the TDK models, you might have to look at one up-close to figure out what technologies were involved (I have not) but it appears that it consists of a classic Log-Periodic for VHF/UHF frequencies with additional elements for the lower frequencies, such as linear loaded dipole or Quad elements. The feed system is the key to hybrid multi-band and broadband antennas so that the element configuration for one frequency is not compromised by the inactive elements. With the TV antenna example, the LPDA and UHF Yagi are essentially invisible to each other although they use the same feed and boom.

Although this idea is attractive for frequency agile radios or for saving the cost of feedline, performance is usually better for antennas optimized for a limited range of frequencies.

It would be helpful for you to have knowledge of a variety of antenna configurations, feed systems and technologies in order to do it justice.

You can write on anything at all. You just have to determine what you want to convey.

I'm sure others will come out of the woodwork pretty soon.

829. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 17:38:54 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ejkjo416thsvoa16jd66s9ne331va92gqi@4ax.com>
Source record: 17753

On Wed, 4 Feb 2009 00:18:59 -0800, "Sal M. Onella"
<salmonella@food.poisoning.org> wrote:
>> But if we went fully marked-up - what new vistas for rhetorical
>> exploration would be found there!
>
>We'd have smiley-faces and frowney faces. That would be good ... wouldn't
>it? (Just kidding. No brickbats, please.)

:-(

830. Re: HLP Antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 21:23:34 UTC
From: Little_skip <Little_skip.3cfd679@radiobanter.com>
Message-ID: <Little_skip.3cfd679@radiobanter.com>
Source record: 17755

'Jerry[_5_ Wrote:
> ;665327'] Hi Little
>
> You are really in luck. You say you have to write about an antenna
> but
> dont know anything about antennas. That implies that you now get to
> learn
> about antennas unless you are content with writing about things you
> "dont
> hnow anything about".
> Get the guy who is having you write to buy you a copy of EZNEC. You
> can
> model whatever antenna you want to get data on.
>
> Jerry KD6JDJ

First, thank you for reading it and trying to help. I appreciate that.
Well, the fact is that I would like to read something about them first
before doing any simulation. Having no background at all, I think I
wouldn't be able to use EZNEC as I should. At least a description of
these equipment, how does it work, what it is used for and so on. I
tried looking on some documentation, but I found some only on
log-periodic antennas and the theme is actually hybrid log-periodic.

--
Little_skip

831. Humour

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 21:57:00 UTC
From: amdx <amdx@knology.net>
Message-ID: <97362$498a0f2e$d8baf3ed$1718@KNOLOGY.NET>
Source record: 17754

Two Antennas got married - the wedding was lousy, but the reception was outstanding.

Nicked from Powerstream.com
Mike

832. "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-04 22:15:09 UTC
From: KE5LDO <KE5LDO.3cfd679@radiobanter.com>
Message-ID: <KE5LDO.3cfd679@radiobanter.com>
Source record: 17756

I built this years ago as a quick antenna for receiving and transmitting. It is name after Havana Cuba's Arnie Coro, since He came up with it over 20 years ago.

1. Take a 45 ft/15 meter 52 ohm Coax, or multiples up or down.
2. Dress it as center conductor and braid on both ends.
3. Solder a 50 OHM resisitor on one end, connecting the center and the braid.
4. On the other end, solder a piece of coax. with braid to center conductor, center conductor to braid. On the other end, solder a PL-259, or whatever your rig accepts.. Then connect it to your receiver/transmitter.
5. You now have a balanced, low noise antenna. I would suggest a 10 watt or hgher resistor for the amount of power you are going to use if transmitting.

--
KE5LDO

833. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 00:13:18 UTC
From: nm5k@wt.net
Message-ID: <1ea02c71-2219-4ad3-ae23-b05c710b6baf@p2g2000prn.googlegroups.com>
Source record: 17757

On Feb 4, 4:15 pm, KE5LDO <KE5LDO.3cfd...@radiobanter.com> wrote:
> I built this years ago as a quick antenna for receiving and
> transmitting. It is name after Havana Cuba's Arnie Coro, since He came
> up with it over 20 years ago.
>
> 1. Take a 45 ft/15 meter 52 ohm Coax, or multiples up or down.
> 2. Dress it as center conductor and braid on both ends.
> 3. Solder a 50 OHM resisitor on one end, connecting the center and the
> braid.
> 4. On the other end, solder a piece of coax. with braid to center
> conductor, center conductor to braid. On the other end, solder a
> PL-259, or whatever your rig accepts.. Then connect it to your
> receiver/transmitter.
> 5. You now have a balanced, low noise antenna. I would suggest a 10
> watt or hgher resistor for the amount of power you are going to use if
> transmitting.
>
> --
> KE5LDO

It's not April 1, 2009 yet... :/

834. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 00:56:30 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5jdko45odd8dv2s91as3ho1ba6lmn5uhrd@4ax.com>
Source record: 17759

On Wed, 4 Feb 2009 22:15:09 +0000, KE5LDO
<KE5LDO.3cfd679@radiobanter.com> wrote:

>
>I built this years ago as a quick antenna for receiving and
>transmitting. It is name after Havana Cuba's Arnie Coro, since He came
>up with it over 20 years ago.

Did Fidel put Arnie against the wall when he published how to
construct a TRANSMITTING antenna?

He should have if for no other reason than the arbitrary instructions:

>1. Take a 45 ft/15 meter 52 ohm Coax, or multiples up or down.
What significance is 45 feet (or 15 meters)? Is this a magic number?

>2. Dress it as center conductor and braid on both ends.
Dress right, or dress left?

>3. Solder a 50 OHM resisitor on one end, connecting the center and the
>braid.
Wouldn't a 50 Ohm resistor present a SWR of 1.04:1? This isn't about
efficiency, is it?

>4. On the other end, solder a piece of coax. with braid to center
>conductor, center conductor to braid. On the other end, solder a
>PL-259, or whatever your rig accepts.. Then connect it to your
>receiver/transmitter.
Shouldn't this be 4(a) and 4(b)?

For 4(a) What happened to the resistor?

For 4(b) Why the connector? Just run the existing line out to 4(a)

>5. You now have a balanced, low noise antenna. I would suggest a 10
>watt or hgher resistor for the amount of power you are going to use if
>transmitting.

Why would you use a resistor for receiving? If it were for
transmitting, I can see why Cuba is still under domination by the
Castros.

Something must have been lost in translation - or maybe the process of
getting through the communist censors. Perhaps this was the CIA
antenna design for the Bay of Pigs.

73's
Richard Clark, KB7QHC

835. Re: HLP Antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 01:32:16 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <Pkril.22137$ZP4.12599@nlpi067.nbdc.sbc.com>
Source record: 17758

Little_skip wrote:
> 'Jerry[_5_ Wrote:
>> ;665327'] Hi Little
>>
>> You are really in luck. You say you have to write about an antenna
>> but
>> dont know anything about antennas. That implies that you now get to
>> learn
>> about antennas unless you are content with writing about things you
>> "dont
>> hnow anything about".
>> Get the guy who is having you write to buy you a copy of EZNEC. You
>> can
>> model whatever antenna you want to get data on.
>>
>> Jerry KD6JDJ
>
> First, thank you for reading it and trying to help. I appreciate that.
> Well, the fact is that I would like to read something about them first
> before doing any simulation. Having no background at all, I think I
> wouldn't be able to use EZNEC as I should. At least a description of
> these equipment, how does it work, what it is used for and so on. I
> tried looking on some documentation, but I found some only on
> log-periodic antennas and the theme is actually hybrid log-periodic.
>
>
>
>

Try googling "EMC antenna". If the antenna you are looking for is a
hybrid of a bow-tie (degenerate biconical) antenna, and a log periodic,
you'll first have to read up on the constituent antennas and then puzzle
out how they work together. Hopefully, you haven't picked a subject that
will get you in over your head.
73,
Tom Donaly, KA6RUH

836. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 04:13:22 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <PHtil.11844$W06.3508@flpi148.ffdc.sbc.com>
Source record: 17760

Richard Clark wrote:
> On Wed, 4 Feb 2009 22:15:09 +0000, KE5LDO
> <KE5LDO.3cfd679@radiobanter.com> wrote:
>
>> I built this years ago as a quick antenna for receiving and
>> transmitting. It is name after Havana Cuba's Arnie Coro, since He came
>> up with it over 20 years ago.
>
> Did Fidel put Arnie against the wall when he published how to
> construct a TRANSMITTING antenna?
>
> He should have if for no other reason than the arbitrary instructions:
>
>> 1. Take a 45 ft/15 meter 52 ohm Coax, or multiples up or down.
> What significance is 45 feet (or 15 meters)? Is this a magic number?
>
>> 2. Dress it as center conductor and braid on both ends.
> Dress right, or dress left?
>
>> 3. Solder a 50 OHM resisitor on one end, connecting the center and the
>> braid.
> Wouldn't a 50 Ohm resistor present a SWR of 1.04:1? This isn't about
> efficiency, is it?
>
>> 4. On the other end, solder a piece of coax. with braid to center
>> conductor, center conductor to braid. On the other end, solder a
>> PL-259, or whatever your rig accepts.. Then connect it to your
>> receiver/transmitter.
> Shouldn't this be 4(a) and 4(b)?
>
> For 4(a) What happened to the resistor?
>
> For 4(b) Why the connector? Just run the existing line out to 4(a)
>
>> 5. You now have a balanced, low noise antenna. I would suggest a 10
>> watt or hgher resistor for the amount of power you are going to use if
>> transmitting.
>
> Why would you use a resistor for receiving? If it were for
> transmitting, I can see why Cuba is still under domination by the
> Castros.
>
> Something must have been lost in translation - or maybe the process of
> getting through the communist censors. Perhaps this was the CIA

> antenna design for the Bay of Pigs.
>
> 73's
> Richard Clark, KB7QHC

You can look up Arnie's website on Google, go there, and read for
yourself what Arnie's idea of an antenna is. The poster is pulling a
fast one.
73,
Tom Donaly, KA6RUH

837. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 07:41:12 UTC
From: "Helmut Wabnig"
Message-ID: <cv5lo4hk84jar17m2cp5l1kt1vnhd0bavh@4ax.com>
Source record: 17762

On Wed, 04 Feb 2009 16:56:30 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Wed, 4 Feb 2009 22:15:09 +0000, KE5LDO
><KE5LDO.3cfd679@radiobanter.com> wrote:
>
>>
>>I built this years ago as a quick antenna for receiving and
>>transmitting. It is name after Havana Cuba's Arnie Coro, since He came
>>up with it over 20 years ago.
>
>Did Fidel put Arnie against the wall when he published how to
>construct a TRANSMITTING antenna?
>
>He should have if for no other reason than the arbitrary instructions:
>
>>1. Take a 45 ft/15 meter 52 ohm Coax, or multiples up or down.
>What significance is 45 feet (or 15 meters)? Is this a magic number?
>
>>2. Dress it as center conductor and braid on both ends.
>Dress right, or dress left?
>
>>3. Solder a 50 OHM resisitor on one end, connecting the center and the
>>braid.
>Wouldn't a 50 Ohm resistor present a SWR of 1.04:1? This isn't about
>efficiency, is it?
>
>>4. On the other end, solder a piece of coax. with braid to center
>>conductor, center conductor to braid. On the other end, solder a
>>PL-259, or whatever your rig accepts.. Then connect it to your
>>receiver/transmitter.
>Shouldn't this be 4(a) and 4(b)?
>
>For 4(a) What happened to the resistor?
>
>For 4(b) Why the connector? Just run the existing line out to 4(a)
>
>>5. You now have a balanced, low noise antenna. I would suggest a 10
>>watt or hgher resistor for the amount of power you are going to use if
>>transmitting.
>
>Why would you use a resistor for receiving? If it were for
>transmitting, I can see why Cuba is still under domination by the
>Castros.

>
>Something must have been lost in translation - or maybe the process of
>getting through the communist censors. Perhaps this was the CIA
>antenna design for the Bay of Pigs.
>
>73's
>Richard Clark, KB7QHC

no no,
that is the perfect example of a dummy load with a radiating cable.

w.

838. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 07:43:39 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <OMwil.2351$WT.1875@newsfe22.iad>
Source record: 17761

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
news:PHtil.11844$W06.3508@flpi148.ffdc.sbc.com...

> You can look up Arnie's website on Google, go there, and read for
> yourself what Arnie's idea of an antenna is. The poster is pulling a
> fast one.

Arnie Coro's website does discuss the item described.
http://www.mail-archive.com/hard-core-dx@hard-core-dx.com/msg18595.html
He doesn't claim it works well (nor should he).

At one point he describes burying it to stealth it. When I was moving an antenna, I had both dipole elements laying on the ground but still connected. Just for laughs, I tuned it up. I could hear a few other people but nobody could hear me. I think burying an HF antenna should be followed by a shopping trip for some writing paper and stamps. You'll need 'em.

839. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 16:05:40 UTC
From: Wayne <mygarbagecan@verizon.net>
Message-ID: <gmf2ol$h9e$1@news.motzarella.org>
Source record: 17763

"Helmut Wabnig" <hwabnig@ .- --- -. dotat> wrote in message
news:cv5lo4hk84jar17m2cp5l1kt1vnhd0bavh@4ax.com...
> On Wed, 04 Feb 2009 16:56:30 -0800, Richard Clark <kb7qhc@comcast.net>
> wrote:
>
>>On Wed, 4 Feb 2009 22:15:09 +0000, KE5LDO
>><KE5LDO.3cfd679@radiobanter.com> wrote:
>>
>>>
>>>I built this years ago as a quick antenna for receiving and
>>>transmitting. It is name after Havana Cuba's Arnie Coro, since He came
>>>up with it over 20 years ago.
>>
>>Did Fidel put Arnie against the wall when he published how to
>>construct a TRANSMITTING antenna?
>>
>>He should have if for no other reason than the arbitrary instructions:
>>
>>>1. Take a 45 ft/15 meter 52 ohm Coax, or multiples up or down.
>>What significance is 45 feet (or 15 meters)? Is this a magic number?
>>
>>>2. Dress it as center conductor and braid on both ends.
>>Dress right, or dress left?
>>
>>>3. Solder a 50 OHM resisitor on one end, connecting the center and the
>>>braid.
>>Wouldn't a 50 Ohm resistor present a SWR of 1.04:1? This isn't about
>>efficiency, is it?
>>
>>>4. On the other end, solder a piece of coax. with braid to center
>>>conductor, center conductor to braid. On the other end, solder a
>>>PL-259, or whatever your rig accepts.. Then connect it to your
>>>receiver/transmitter.
>>Shouldn't this be 4(a) and 4(b)?
>>
>>For 4(a) What happened to the resistor?
>>
>>For 4(b) Why the connector? Just run the existing line out to 4(a)
>>
>>>5. You now have a balanced, low noise antenna. I would suggest a 10
>>>watt or hgher resistor for the amount of power you are going to use if
>>>transmitting.
>>
>>Why would you use a resistor for receiving? If it were for

>>transmitting, I can see why Cuba is still under domination by the
>>Castros.
>>
>>Something must have been lost in translation - or maybe the process of
>>getting through the communist censors. Perhaps this was the CIA
>>antenna design for the Bay of Pigs.
>>
>>73's
>>Richard Clark, KB7QHC
>
>
> no no,
> that is the perfect example of a dummy load with a radiating cable.
>
> w.
-
At one time, I lived in an apartment and used a similar, shorter antenna for
2 meter operation via a repeater. It was easy to build, and worked fine
because I didn't need much signal to hit the repeater.
--Wayne

840. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 16:38:04 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <MBEil.1193$N02.391@nwrddc02.gnilink.net>
Source record: 17764

Wayne........That's interesting.....Can you elaborate on that 2 meter antenna you had? I wonder if one were to make a longer version would it have gain & a wider bandwidth?

"Wayne" <mygarbagecan@verizon.net> wrote in message news:gmf2ol$h9e$1@news.motzarella.org...
>
> "Helmut Wabnig" <hwabnig@ .- --- -. dotat> wrote in message
> news:cv5lo4hk84jar17m2cp5l1kt1vnhd0bavh@4ax.com...
>> On Wed, 04 Feb 2009 16:56:30 -0800, Richard Clark <kb7qhc@comcast.net>
>> wrote:
>>
>>>On Wed, 4 Feb 2009 22:15:09 +0000, KE5LDO
>>><KE5LDO.3cfd679@radiobanter.com> wrote:
>>>
>>>>
>>>>I built this years ago as a quick antenna for receiving and
>>>>transmitting. It is name after Havana Cuba's Arnie Coro, since He came
>>>>up with it over 20 years ago.
>>>
>>>Did Fidel put Arnie against the wall when he published how to
>>>construct a TRANSMITTING antenna?
>>>
>>>He should have if for no other reason than the arbitrary instructions:
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>>>>1. Take a 45 ft/15 meter 52 ohm Coax, or multiples up or down.
>>>What significance is 45 feet (or 15 meters)? Is this a magic number?
>>>
>>>>2. Dress it as center conductor and braid on both ends.
>>>Dress right, or dress left?
>>>
>>>>3. Solder a 50 OHM resisitor on one end, connecting the center and the
>>>>braid.
>>>Wouldn't a 50 Ohm resistor present a SWR of 1.04:1? This isn't about
>>>efficiency, is it?
>>>
>>>>4. On the other end, solder a piece of coax. with braid to center
>>>>conductor, center conductor to braid. On the other end, solder a
>>>>PL-259, or whatever your rig accepts.. Then connect it to your
>>>>receiver/transmitter.
>>>Shouldn't this be 4(a) and 4(b)?
>>>
>>>For 4(a) What happened to the resistor?
>>>

>>>For 4(b) Why the connector? Just run the existing line out to 4(a)
>>>
>>>>5. You now have a balanced, low noise antenna. I would suggest a 10
>>>>watt or hgher resistor for the amount of power you are going to use if
>>>>transmitting.
>>>
>>>Why would you use a resistor for receiving? If it were for
>>>transmitting, I can see why Cuba is still under domination by the
>>>Castros.
>>>
>>>Something must have been lost in translation - or maybe the process of
>>>getting through the communist censors. Perhaps this was the CIA
>>>antenna design for the Bay of Pigs.
>>>
>>>73's
>>>Richard Clark, KB7QHC
>>
>>
>> no no,
>> that is the perfect example of a dummy load with a radiating cable.
>>
>> w.
> -
> At one time, I lived in an apartment and used a similar, shorter antenna
> for 2 meter operation via a repeater. It was easy to build, and worked
> fine because I didn't need much signal to hit the repeater.
> --Wayne
>

841. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 17:09:56 UTC
From: Wayne <mygarbagecan@verizon.net>
Message-ID: <gmf6mr$4d1$1@news.motzarella.org>
Source record: 17765

"Spin" <noemail@alone.invalid> wrote in message
news:MBEil.1193$N02.391@nwrddc02.gnilink.net...
> Wayne........That's interesting.....Can you elaborate on that 2 meter
> antenna you had? I wonder if one were to make a longer version would it
> have gain & a wider bandwidth?
>
>
Sure. However, I'm not recommending it for anything. As I recall it was a quarter wave of coax terminated in a 10 watt dummy load. The quarter wave was connected as previously described, with the shield of the quarter wave connected to the center conductor of the feedline and the shield of the feedline connected to the center conductor of tthe quarter wave. I was just trying to get a dummy load to radiate enough for a short path to a repeater. (Transmitter ran 10 watts)

At a different time, I simply terminated a feedline (low quality RShack RG-58) with a 10 watt carbon resistor (unshielded and 3 inch leads). It worked about the same.

However, remember that I was only trying to hit a single repeater, and a whip antenna with just a few milliwatts would have worked on that particular path. The "antenna" was very poor, but there may be paths where it is an acceptable compromise.

842. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 17:23:56 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gmf7bcker1@news.jpl.nasa.gov>
Source record: 17766

Wayne wrote:
> "Spin" <noemail@alone.invalid> wrote in message
> news:MBEil.1193$N02.391@nwrddc02.gnilink.net...
>> Wayne........That's interesting.....Can you elaborate on that 2 meter
>> antenna you had? I wonder if one were to make a longer version would it
>> have gain & a wider bandwidth?
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>>
> Sure. However, I'm not recommending it for anything. As I recall it was a
> quarter wave of coax terminated in a 10 watt dummy load. The quarter wave
> was connected as previously described, with the shield of the quarter wave
> connected to the center conductor of the feedline and the shield of the
> feedline connected to the center conductor of tthe quarter wave. I was just
> trying to get a dummy load to radiate enough for a short path to a repeater.
> (Transmitter ran 10 watts)
>
> At a different time, I simply terminated a feedline (low quality RShack
> RG-58) with a 10 watt carbon resistor (unshielded and 3 inch leads). It
> worked about the same.
>
> However, remember that I was only trying to hit a single repeater, and a
> whip antenna with just a few milliwatts would have worked on that particular
> path. The "antenna" was very poor, but there may be paths where it is an
> acceptable compromise.
>
>

Think of this as a variant on taking a 1/4 wave of wire and attaching it
to the center conductor of the feedline (or, just stripping 1/4wave of
shield off the coax) with no choke, balun, or anything else. It's a sort
of sleeve dipole: The "outside" of the feedline coax essentially acts as
the other half of the dipole.

Depending on where it's installed, it might work, might not. No
decoupling means that the whole feedline potentially radiates, etc.
Probably no worse than a lot of other improvised antennas.

Put a really good choke around the coax at the 1/4 wave point, and it
starts to look better, but, having the feedline essentially hanging off
the end of the dipole means that you've got conductors in the high E
field part of the antenna, so there will be capacitive coupling.

Doing the Coro style thing with the resistor, etc, in effect makes this
another of the many "resistively loaded dipole" schemes where you give
up some efficiency in exchange for a better match. No different in

concept (although different in design) from the T2FD sorts of things
from B&W, etc.

843. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 18:41:45 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <2qGil.19635$Ws1.770@nlpi064.nbdc.sbc.com>
Source record: 17767

```
Jim Lux wrote:
> Wayne wrote:
>> "Spin" <noemail@alone.invalid> wrote in message
>> news:MBEil.1193$N02.391@nwrddc02.gnilink.net...
>>> Wayne........That's interesting.....Can you elaborate on that 2 meter
>>> antenna you had? I wonder if one were to make a longer version would
>>> it have gain & a wider bandwidth?
>>>
>>>
>> Sure. However, I'm not recommending it for anything. As I recall it
>> was a quarter wave of coax terminated in a 10 watt dummy load. The
>> quarter wave was connected as previously described, with the shield of
>> the quarter wave connected to the center conductor of the feedline and
>> the shield of the feedline connected to the center conductor of tthe
>> quarter wave. I was just trying to get a dummy load to radiate enough
>> for a short path to a repeater. (Transmitter ran 10 watts)
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>> At a different time, I simply terminated a feedline (low quality
>> RShack RG-58) with a 10 watt carbon resistor (unshielded and 3 inch
>> leads). It worked about the same.
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>> However, remember that I was only trying to hit a single repeater, and
>> a whip antenna with just a few milliwatts would have worked on that
>> particular path. The "antenna" was very poor, but there may be paths
>> where it is an acceptable compromise.
>>
>
> Think of this as a variant on taking a 1/4 wave of wire and attaching it
> to the center conductor of the feedline (or, just stripping 1/4wave of
> shield off the coax) with no choke, balun, or anything else. It's a sort
> of sleeve dipole: The "outside" of the feedline coax essentially acts as
> the other half of the dipole.
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> Depending on where it's installed, it might work, might not. No
> decoupling means that the whole feedline potentially radiates, etc.
> Probably no worse than a lot of other improvised antennas.
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> Put a really good choke around the coax at the 1/4 wave point, and it
> starts to look better, but, having the feedline essentially hanging off
> the end of the dipole means that you've got conductors in the high E
> field part of the antenna, so there will be capacitive coupling.
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>
> Doing the Coro style thing with the resistor, etc, in effect makes this
```

> another of the many "resistively loaded dipole" schemes where you give
> up some efficiency in exchange for a better match. No different in
> concept (although different in design) from the T2FD sorts of things
> from B&W, etc.
>

I notice Arnie has a terminated, folded dipole or whatever you call it
on his web page. He doesn't offer it as anything other than what it is.
Most of his stuff has always been for people of limited means who still
want to enjoy amateur radio. Cubans are good at that type of thing
because their crappy economic system and the American boycott have
forced them to be that way.
73,
Tom Donaly, KA6RUH

844. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 19:50:27 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <hgamo45lhvjvckh819u2ecg5q3ret3sj4u@4ax.com>
Source record: 17768

On Thu, 5 Feb 2009 08:05:40 -0800, "Wayne" <mygarbagecan@verizon.net>
wrote:

>At one time, I lived in an apartment and used a similar, shorter antenna for
>2 meter operation via a repeater. It was easy to build, and worked fine
>because I didn't need much signal to hit the repeater.

Hi Wayne,

In my basement shack, using a 300mW 2M Alinco HT, I can hit my buddy's
repeater 10 miles away. The HT's antenna, fully extended, is only an
8 inch whip.

It doesn't need a resistor. It doesn't need fancy cable preparation.
It is roughly one-hundredth the size of Arnie's, operating at
one-twentieth the wavelength as Arnie's(?).

So, the amended Arnie's minimalist design:
1. Take a 45 ft/15 meter 52 ohm Coax;
2. connect center conductor and braid together on both ends;
3. throw a 50 OHM resistor over your right shoulder for luck;
4. then connect that coax through a tuner to your transceiver;
5. listen and talk to the world.

This pretty much describes my antenna that I could use to listen to
Radio Habana Cuba (and more) when I was a kid. However, I was driven
by economic necessity to be more minimalist. For instance:
1. Take a 45 ft/15 meter surplus armored 1" multi conductor cable;
2. strip out the wire from inside the cable for other projects;
3. keep the 50 OHM resistor for other projects;
4. then connect that cable shell through a tuner to my receiver;
5. listen to the world.

Using the armored shell was an extravagence, as I could have had used
one of the wires that formerly ran through it. That antenna heard
Habana, Quito, Sydney, and Cape Town (or Jo'burg) quite easily.

My radios back then were a Knight Kit Star Roamer, a BC348, a BC453,
and a RBB-1. I used the BC348 as a highly selective, second IF
(85kHz) conversion to the other sets.

73's
Richard Clark, KB7QHC

845. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 20:21:37 UTC
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Message-ID: <ITHil.503644$TT4.389101@attbi_s22>
Source record: 17769

> My radios back then were a Knight Kit Star Roamer, a BC348, a BC453,
> and a RBB-1. I used the BC348 as a highly selective, second IF
> (85kHz) conversion to the other sets.
>
> 73's
> Richard Clark, KB7QHC

More likely, it was the BC-453 you used for the selectivity although it wouldn't tune as high in frequency as the IF in the BC348. Must have used it for the Knightkit

W4ZCB

846. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 20:29:16 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <jI-dneFR7_0G1hbUnZ2dnUVZ_tjinZ2d@posted.easystreetonline>
Source record: 17770

Spin wrote:
> Wayne........That's interesting.....Can you elaborate on that 2 meter
> antenna you had? I wonder if one were to make a longer version would it
> have gain & a wider bandwidth?

Just remember the general rule for antennas: small - efficient -
broadband: pick any two.

Roy Lewallen, W7EL

847. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 20:31:39 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <jI-dneBR7_230RbUnZ2dnUVZ_tjinZ2d@posted.easystreetonline>
Source record: 17771

Sal M. Onella wrote:
>
> Arnie Coro's website does discuss the item described.
> http://www.mail-archive.com/hard-core-dx@hard-core-dx.com/msg18595.html
> He doesn't claim it works well (nor should he).
>
> At one point he describes burying it to stealth it. When I was moving an
> antenna, I had both dipole elements laying on the ground but still
> connected. Just for laughs, I tuned it up. I could hear a few other people
> but nobody could hear me. I think burying an HF antenna should be followed
> by a shopping trip for some writing paper and stamps. You'll need 'em.
>

Buried antennas were seriously investigated by the military some time ago, and are probably still in use. While terribly inefficient, some can radiate enough to be useful, and invisibility can be an asset. I was told long ago that the reason NEC-4 was prohibited for export for so long was that it could be used for designing buried and therefore invisible antennas.

Roy Lewallen, W7EL

848. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 20:45:51 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gmfj5v$fc1a$1@tr22n12.aset.psu.edu>
Source record: 17772

Richard Clark wrote:

> Dress right, or dress left?

Took some balls to ask that question... ;^)

- 73 de Mike N3LI -

849. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 21:06:39 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <63lmo4du4j80n1u4g62oqlsiqp0vqvveeg@4ax.com>
Source record: 17773

On Thu, 05 Feb 2009 20:21:37 GMT, "Harold E. Johnson"
<W4ZCB@mchsi.com> wrote:

>> My radios back then were a Knight Kit Star Roamer, a BC348, a BC453,
>> and a RBB-1. I used the BC348 as a highly selective, second IF
>> (85kHz) conversion to the other sets.
>>
>> 73's
>> Richard Clark, KB7QHC
>
>More likely, it was the BC-453 you used for the selectivity although it
>wouldn't tune as high in frequency as the IF in the BC348. Must have used it
>for the Knightkit

Hi Harold,

You are right, I got the BCs backwards.

73's
Richard Clark, KB7QHC

850. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 21:31:46 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gmfls2$6mk$1@news.jpl.nasa.gov>
Source record: 17774

Roy Lewallen wrote:
> Sal M. Onella wrote:
>>
>> Arnie Coro's website does discuss the item described.
>> http://www.mail-archive.com/hard-core-dx@hard-core-dx.com/msg18595.html
>> He doesn't claim it works well (nor should he).
>>
>> At one point he describes burying it to stealth it. When I was moving an
>> antenna, I had both dipole elements laying on the ground but still
>> connected. Just for laughs, I tuned it up. I could hear a few other
>> people
>> but nobody could hear me. I think burying an HF antenna should be
>> followed
>> by a shopping trip for some writing paper and stamps. You'll need 'em.
>>
>
> Buried antennas were seriously investigated by the military some time
> ago, and are probably still in use. While terribly inefficient, some can
> radiate enough to be useful, and invisibility can be an asset. I was
> told long ago that the reason NEC-4 was prohibited for export for so
> long was that it could be used for designing buried and therefore
> invisible antennas.

Actually, I think it was the NEC 3 variant that first introduced buried wires, and was classified as Defense Critical Technology. "The only difference in the capabilities of these codes is that NEC-3 can model wires that are buried or penetrate from air into the ground, while NEC-2 is limited to antennas in free space or above a ground plane."

from Burke's NEC validation paper published at that conference in Ankara Turkey in 1989.

That paper also mentions an experimental version NEC3VLF (improving performance for electrically small antennas), NEC4X (better modeling of endcaps), NEC3I (for insulated wires), NEC-GS (ground screens), etc., all of which probably wound up in NEC4 in one way or another.

A notable export controlled application of such codes is modeling wires submerged in seawater.

The export controls still exist, by the way, for NEC4.. when you get a copy, don't you have to certify who the end user is? and agree to ITAR compliance, etc.

https://ipo.llnl.gov/technology/software/documents/NEC.pdf

>
> Roy Lewallen, W7EL
>

851. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-05 22:29:47 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <YKudnWQm1avC9RbUnZ2dnUVZ8ruWnZ2d@bt.com>
Source record: 17775

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gmf7bcker1@news.jpl.nasa.gov...
> Wayne wrote:
>> "Spin" <noemail@alone.invalid> wrote in message
>> news:MBEil.1193$N02.391@nwrddc02.gnilink.net...
>>> Wayne........That's interesting.....Can you elaborate on that 2 meter
>>> antenna you had? I wonder if one were to make a longer version would it
>>> have gain & a wider bandwidth?
>>>
>>>
>> Sure. However, I'm not recommending it for anything. As I recall it was
>> a quarter wave of coax terminated in a 10 watt dummy load. The quarter
>> wave was connected as previously described, with the shield of the
>> quarter wave connected to the center conductor of the feedline and the
>> shield of the feedline connected to the center conductor of tthe quarter
>> wave. I was just trying to get a dummy load to radiate enough for a
>> short path to a repeater. (Transmitter ran 10 watts)
>>
>> At a different time, I simply terminated a feedline (low quality RShack
>> RG-58) with a 10 watt carbon resistor (unshielded and 3 inch leads). It
>> worked about the same.
>>
>> However, remember that I was only trying to hit a single repeater, and a
>> whip antenna with just a few milliwatts would have worked on that
>> particular path. The "antenna" was very poor, but there may be paths
>> where it is an acceptable compromise.
>
> Think of this as a variant on taking a 1/4 wave of wire and attaching it
> to the center conductor of the feedline (or, just stripping 1/4wave of
> shield off the coax) with no choke, balun, or anything else. It's a sort
> of sleeve dipole: The "outside" of the feedline coax essentially acts as
> the other half of the dipole.
>
> Depending on where it's installed, it might work, might not. No decoupling
> means that the whole feedline potentially radiates, etc. Probably no worse
> than a lot of other improvised antennas.
>
> Put a really good choke around the coax at the 1/4 wave point, and it
> starts to look better, but, having the feedline essentially hanging off
> the end of the dipole means that you've got conductors in the high E field
> part of the antenna, so there will be capacitive coupling.
>
>
> Doing the Coro style thing with the resistor, etc, in effect makes this

> another of the many "resistively loaded dipole" schemes where you give up
> some efficiency in exchange for a better match. No different in concept
> (although different in design) from the T2FD sorts of things from B&W,
> etc.

The section of line at the end, terminated with the resistor, will present something like 50 ohms between its terminals (outer and inner) at the point where it is connected to the feedline, even if its terminals are reversed, so if the outside surface of its outer conductor and the outside surface of the outer conductor of the feedline present some sort of dipole to the same point, the ~50 ohms will shunt the terminal impedance of that dipole. So if the dipole actually radiates in the manner of a half-wave wire dipole its VSWR could be improved by omitting the resistor.

Working: VSWR = (1+{Rho})/(1-{Rho}) where {Rho} is the magnitude of Rho, the reflection coefficient for voltage at the dipole's drive point and Rho = (ZL-Z0)/(ZL+Z0) where ZL is the impedance of the load at the end of the feedline of characteristic impedance Z0.

~72 ohms from a half-wave dipole alone yields Rho = 0.16 for Z0 = 52 ohms, and so VSWR = 1.38.

~72 in parallel with ~50 = ~29.5 ohms for the parallel combination yields Rho = -0.28 so {Rho} = 0.28 and VSWR = 1.78.

Of course, if the 'dipole' does not radiate in the manner of a half-wave wire dipole then this may not apply (e.g. if it is buried).

Chris

852. In honor of moparhoLICK, we disclose info about KD8IMG!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 00:28:43 UTC
From: mopeyzakween@yahoo.com
Message-ID: <d64c0a4e-3b87-434c-8771-f7435eb834f7@i18g2000prf.googlegroups.com>
Source record: 17776
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

moparhoLICK...the letter was sent because of 2 things....

1) It is the truth

2) you and KD8IMG decided that you wanted to start something....

Mr. Joseph Cousino, President
IBEW Local 8
807 Lime City Rd.
Rossford, OH 43460

Dear Mr. Cousino,

This message is sent to inform Local 8 that Robert L. Trendel, a local 8 apprentice, is currently under 2 separate 2 year anti stalking orders of protection. Since it is assumed that IBEW people work on private as well as industrial sites, it seemed you would be interested in knowing this information. It is evident that in the event of some sort of incident related to individuals encountered on a jobsite there would be considerable liability exposure for IBEW Local 8.

I am involved in this situation because Mr. Trendel victimized my girlfriend, Kathleen Lee. Kathy is one of the persons who sought and obtained an Order of Protection from the court. Owing to some personal differences with me, Mr. Trendel decided that he would get to me through her. This was admitted openly by Mr. Trendel and is in the court transcripts. He stated in court that his reasoning for various acts and attitudes toward her was that he “knew that he had nothing to lose”, referring to me, the author of this letter.

We cannot prove that Mr. Trendel is the person who smashed her vehicle window and mirror, nor can we prove that it was he who ripped her DirecTV dish off of her lower garage roof. These incidents did happen, though, and he is highly suspected. What we can prove is that Mr. Trendel called Kathy's employer and left voice mail for the HR department in an attempt to discredit and defame her with her employer. This we have a recording of, courtesy of the head of HR at her job.

It should be further noted that even though 2 of these 3 incidents cannot be proven to have been perpetrated by Mr. Trendel, all such incidents ceased after the court order was obtained.

I cannot comment very much about the second case against him except to say that Mr. Trendel admitted to conducting electronic surveillance against Donna Szymanski, his next door neighbor, with cameras and

microphones trained on her home. The exstence of a recording of Mr. Trendel saying words to the effect that he “knows everything about her, where she works, etc, and it would be simple to just shoot her” also came to light.

In another one of those situations where “can't prove it but suspect it” comes up, Ms. Szymanski's automobile tires were vandalized in her rear driveway in the time period before she requested the Order of Protection.

Personally, I would not want Mr. Trendel within a mile of any woman I know. I am sure you can see why I feel this way. I am also concerned about the prospect of somebody who thinks like this being in anyones home doing electrical work.

Page 2 of this letter shows the internet links to the court dockets of these cases. If requested the recording of Mr. Trendel calling Ms. Lee's work, and photographic evidence of vandalism incidents, etc. can be provided.

Sincerely,

Below are the links to Lucas County Common Pleas Court dockets on both of these cases.

LINK 1
http://apps.co.lucas.oh.us/onlinedockets/Docket.aspx?STYPE=1&PAR=CI200802161-000&STARTDATE=01/01/1900&ENDDATE=01/01/2100&PARTY=0

LINK 2
http://apps.co.lucas.oh.us/onlinedockets/Docket.aspx?STYPE=1&PAR=CI200802176-000&STARTDATE=01/01/1900&ENDDATE=01/01/2100&PARTY=0

853. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 01:50:23 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <0sCdnSVkVZP1ChbUnZ2dnUVZ8ruWnZ2d@bt.com>
Source record: 17777

```
"christofire" <christofire@btinternet.com> wrote in message
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> "Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
> news:gmf7bc$ker$1@news.jpl.nasa.gov...
>> Wayne wrote:
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```

>>
>>
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>> etc.
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>
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> point where it is connected to the feedline, even if its terminals are
> reversed, so if the outside surface of its outer conductor and the outside
> surface of the outer conductor of the feedline present some sort of dipole
> to the same point, the ~50 ohms will shunt the terminal impedance of that
> dipole. So if the dipole actually radiates in the manner of a half-wave
> wire dipole its VSWR could be improved by omitting the resistor.
>
> Working: VSWR = (1+{Rho})/(1-{Rho}) where {Rho} is the magnitude of Rho,
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> = (ZL-Z0)/(ZL+Z0) where ZL is the impedance of the load at the end of the
> feedline of characteristic impedance Z0.
>
> ~72 ohms from a half-wave dipole alone yields Rho = 0.16 for Z0 = 52 ohms,
> and so VSWR = 1.38.
>
> ~72 in parallel with ~50 = ~29.5 ohms for the parallel combination yields
> Rho = -0.28 so {Rho} = 0.28 and VSWR = 1.78.
>
> Of course, if the 'dipole' does not radiate in the manner of a half-wave
> wire dipole then this may not apply (e.g. if it is buried).
>
> Chris

... and replacing it with a short circuit! (important point, omitted from
posting)

854. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 02:19:07 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <xsidnWnBUtsGABbUnZ2dnUVZ_h2WnZ2d@posted.easystreetonline>
Source record: 17778

Jim Lux wrote:
> . . .
> The export controls still exist, by the way, for NEC4.. when you get a
> copy, don't you have to certify who the end user is? and agree to ITAR
> compliance, etc.
>
> https://ipo.llnl.gov/technology/software/documents/NEC.pdf

Until a few years ago, NEC-4 could only purchased by a U.S. citizen for use within the U.S. Anyone else would have to apply for an exception via diplomatic channels.

Now, there are no restrictions except for a very few prohibited countries (e.g., North Korea). Licenses are routinely granted for users all over the world. The program is, however, still protected by copyright.

Roy Lewallen, W7EL

855. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 07:12:51 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <UpRil.3273$WT.2465@newsfe22.iad>
Source record: 17779

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:jI-dneBR7_230RbUnZ2dnUVZ_tjinZ2d@posted.easystreetonline...

>
> Buried antennas were seriously investigated by the military some time
> ago, and are probably still in use. While terribly inefficient, some can
> radiate enough to be useful, and invisibility can be an asset.

Agree.

I didn't mean to imply that a buried antenna wouldn't work at all. Dirt's
not a perfect shield material, which is what would be required for zero
radiation.

856. Re: HLP Antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 11:52:50 UTC
From: Wimpie <wimabctel@tetech.nl>
Message-ID: <2d32a09f-6736-42a1-a064-4b9091d3f943@r10g2000prf.googlegroups.com>
Source record: 17780

On 4 feb, 09:27, Little_skip <Little_skip.3cf2...@radiobanter.com>
wrote:
> Hi everyone,
>
> I would like some help with the HLP (Hybrid Log-Periodic) Antennas if
> possible. I know nothing about antennas, yet I have a paper to write
> about HLP Antennas (characteristics, calibration and so on) and I
> didn't find anything about them. I found only datasheets for some of
> the HLP antennas (mostly from TDK). Would it be a start to search about
> log-periodic antennas and adapt the information? What would be the
> difference between them?
>
> Maybe it would sound like a stupid question to all of you, but I really
> don't know where to start. Can someone give me a bit of help?
>
> Thank you.
>
> --
> Little_skip

Hello,

I don't know your background and to what depth the article should go,
but I assume that you have a background in Electronic Engineering.

It is good to know some properties and design trade offs for the
normal LP antenna (this requires basic knowledge on antennas). There
are several design parameters that sets maximum and minimum frequency
range and gain.

The "Hybrid" part relates to a merge between a flat dipole and the LP.
At the low end of the useful frequency range of the HLP, the antenna
radiation pattern behaves like a dipole antenna.

Simulation is a good way to "see" the effect of various LP designs.

The second challenge for you will be the calibration (I assume gain
calibration). Calibrating for gain does not only involve antennas, but
also EM wave propagation, transmission lines and a certain attitude
towards the measuring results. Also here, simulation is a good way to
"see" the effect of (small) changes in your test setup for
calibration.

You might consider hiring an expert to set you on the right track. It
may save you lots of time.

Best regards,

Wim
PA3DJS
www.tetech.nl
with abc the mail address is valid.

857. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 11:56:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <nzVil.13060$as4.3949@nlpi069.nbdc.sbc.com>
Source record: 17781

Sal M. Onella wrote:
> I didn't mean to imply that a buried antenna wouldn't work at all.

How about in a dry sandy desert?
--
73, Cecil http://www.w5dxp.com

858. Re: In honor of moparhoLICK, we disclose info about KD8IMG!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 17:08:43 UTC
From: mopeyzakween@yahoo.com
Message-ID: <a54182f7-e351-4763-8101-746f70c49164@v5g2000prm.googlegroups.com>
Source record: 17782
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 5, 7:28 pm, mopeyzakw...@yahoo.com wrote:
> moparhoLICK...the letter was sent because of 2 things....
>
> 1) It is the truth
>
> 2) you and KD8IMG decided that you wanted to start something....
>
> Mr. Joseph Cousino, President
> IBEW Local 8
> 807 Lime City Rd.
> Rossford, OH 43460
>
> Dear Mr. Cousino,
>
> This message is sent to inform Local 8 that Robert L. Trendel, a local
> 8 apprentice, is currently under 2 separate 2 year anti stalking
> orders of protection. Since it is assumed that IBEW people work on
> private as well as industrial sites, it seemed you would be interested
> in knowing this information. It is evident that in the event of some
> sort of incident related to individuals encountered on a jobsite there
> would be considerable liability exposure for IBEW Local 8.
>
> I am involved in this situation because Mr. Trendel victimized my
> girlfriend, Kathleen Lee. Kathy is one of the persons who sought and
> obtained an Order of Protection from the court. Owing to some personal
> differences with me, Mr. Trendel decided that he would get to me
> through her. This was admitted openly by Mr. Trendel and is in the
> court transcripts. He stated in court that his reasoning for various
> acts and attitudes toward her was that he “knew that he had nothing to
> lose”, referring to me, the author of this letter.
>
> We cannot prove that Mr. Trendel is the person who smashed her vehicle
> window and mirror, nor can we prove that it was he who ripped her
> DirecTV dish off of her lower garage roof. These incidents did happen,
> though, and he is highly suspected. What we can prove is that Mr.
> Trendel called Kathy's employer and left voice mail for the HR
> department in an attempt to discredit and defame her with her
> employer. This we have a recording of, courtesy of the head of HR at
> her job.
>
> It should be further noted that even though 2 of these 3 incidents
> cannot be proven to have been perpetrated by Mr. Trendel, all such
> incidents ceased after the court order was obtained.

>
> I cannot comment very much about the second case against him except to
> say that Mr. Trendel admitted to conducting electronic surveillance
> against Donna Szymanski, his next door neighbor, with cameras and
> microphones trained on her home. The exstence of a recording of Mr.
> Trendel saying words to the effect that he “knows everything about
> her, where she works, etc, and it would be simple to just shoot her”
> also came to light.
>
> In another one of those situations where “can't prove it but suspect
> it” comes up, Ms. Szymanski's automobile tires were vandalized in her
> rear driveway in the time period before she requested the Order of
> Protection.
>
> Personally, I would not want Mr. Trendel within a mile of any woman I
> know. I am sure you can see why I feel this way. I am also concerned
> about the prospect of somebody who thinks like this being in anyones
> home doing electrical work.
>
> Page 2 of this letter shows the internet links to the court dockets of
> these cases. If requested the recording of Mr. Trendel calling Ms.
> Lee's work, and photographic evidence of vandalism incidents, etc. can
> be provided.
>
> Sincerely,
>
> Below are the links to Lucas County Common Pleas Court dockets on both
> of these cases.
>
> LINK 1http://apps.co.lucas.oh.us/onlinedockets/Docket.aspx?STYPE=1&PAR=CI20...
>
> LINK 2http://apps.co.lucas.oh.us/onlinedockets/Docket.aspx?STYPE=1&PAR=CI20...

Here are some more ebay amp auctions ratted out!
This is being done continuously in moparhoLICK's honor. The queen
wants to play, so she is beng obliged. You know what the numbers
mean,
you know what happened. Sit there and chew on it.

190285026905,170300363362,280310732754,120374348876,
200306789191,250369001259,320337978629,250368666065,
170300087761,190284699791

859. Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 17:44:21 UTC
From: Robert Lacoste <see-alciom-dot-com>
Message-ID: <498c76f1$0$4098$ba4acef3@news.orange.fr>
Source record: 17783
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

Hello,

I am looking for the antenna factors table for a Eaton 94455-1 biconical antenna (20MHz to 200MHz). Does someone have a calibration table for a similar antenna around, or a manual for this antenna model ?

More exactly I have found some K factors for it but they seems wrong, except if I'm wrong with the units somewhere. I have a table with figures ranging from "47" (65MHz) up to "59" (200MHz). Assuming these figures are in dB/m this would give a gain of -44dBi at 160MHz (K = 20 log(F in MHz) - G - 29.8 isn't it ?). The result is not reasonnable... and not at all compatible with the measurements.

Are my K factor figures wrong, or is my calculation wrong somewhere ?

Thanks for your help !
Yours,
Robert

860. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 20:24:55 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <027po4tddqv0msh1mnhe8qq3emi7n2jao6@4ax.com>
Source record: 17784

On Wed, 4 Feb 2009 00:12:54 -0800, "Sal M. Onella"
<salmonella@food.poisoning.org> wrote:

>
>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>news:p1lbo49h07qsle0as3ucugvm2ok8ajafso@4ax.com...
>> On Sun, 25 Jan 2009 14:27:33 -0800 (PST), nm5k@wt.net wrote:
>
>< snip >
>
>> >You might be surprised just how much level you can
>> >get from a tuned small loop on the low bands.
>> >As an example, that 16 inch loop provides more
>> >signal than the whip on a car. I once tried it with a
>> >delco radio in my truck. I hooked the loop up to it,
>> >and it was as hot as a firecracker vs the standard
>> >whip.
>> >The catch is the system is very high Q, and requires
>> >constant tuning of the cap as you change frequency.
>>
>> That bites you when you use resonant loops. Of course non-resonant
>> loops don't have nearly the effective performance. Initial
>> selectivity to reduce the noise bandwidth before amplification or
>> mixing is why it is so common.
>>
>
>I recall medium-size table radios having a loop antenna in/on the back
>cover. I don't know whether there was also a ferrite rod inside.
>
There was not one in the clock radio that i grew up with. I know, i
had it apart by the time i was ten.

861. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 20:47:37 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <e08po4l14bhplcjgfpoljni3a857qrt3kp@4ax.com>
Source record: 17785

```
On Mon, 2 Feb 2009 22:37:57 -0000, "christofire"
<christofire@btinternet.com> wrote:

>
>"Dave" <noone@nowhere.com> wrote in message
>news:xaKhl.819$eK2.441@nwrddc01.gnilink.net...
>>
>> "christofire" <christofire@btinternet.com> wrote in message
>> news:TfCdndM02PwooBvUnZ2dnUVZ8o6dnZ2d@bt.com...
>>>
>>> "Richard Clark" <kb7qhc@comcast.net> wrote in message
>>> news:951co4t8o2pggtvvk4u4r68edhrh0jkkrb@4ax.com...
>>>> On Sun, 1 Feb 2009 19:51:34 -0000, "christofire"
>>>> <christofire@btinternet.com> wrote:
>>>>
>>>>>
>>>>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>>>>news:lhlbo4trrog632tshe2bued06t435odrlp@4ax.com...
>>>>>> On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>>>>> <christofire@btinternet.com> wrote:
>>>>>>
>>>>>almighty snip -----
>>>>>
>>>>>> Say Chris, how about you set your Outhouse Express news/mail client to
>>>>>> use a quote character. It is good manners in news groups.
>>>>>>
>>>>>
>>>>>Joseph, please explain (and excuse my bad manners!) - use a quote
>>>>>character
>>>>>for what?
>>>>>
>>>>>Are you referring to my use of the pairs of single quotation marks 'xxx'
>>>>>in
>>>>>what I'd written? I usually reserve double quotation marks "qqq" for
>>>>>actual
>>>>>quotations; things that people have said ... but I suspect you're
>>>>>referring
>>>>>to something else.
>>>>>
>>>>>Chris
>>>>>
>>>>
>>>> ****************************
>>>>
```

>>>> An example follows:
>>>>>On Mon, 26 Jan 2009 18:16:22 -0000, "christofire"
>>>>><christofire@btinternet.com> wrote:
>>>>>
>>>>>>Hi Chris,
>>>>>>I need a bit more with respect to your response in more layman terms
>>>>>>
>>>>>>When a multi turn helix is generated it can be used for both
>>>>>>transmitting and receiving.
>>>>>>When generating two helix antennas where one is contra wound and both
>>>>>>are connected at the top
>>>>>>you are saying that it will NOT be suitable for receiving !
>>>>>>We know by common use that the single helix is good for transmitt and
>>>>>>receive . So what exactly
>>>>>>does the addition of the contra winding do to prevent the combination
>>>>>>from receiving?
>>>>>>Looking forward to your take on the question.
>>>>>>Best regards
>>>>>>Art
>>>>>>
>>>>>>
>>>>>>OK. The term 'helix' is most often applied to the travelling-wave
>>>>>>antenna
>>>>>>invented by John Kraus, often used at VHF and above, which generates or
>>>>>>receives a circularly-polarised wave predominantly in the direction of
>>>>>>its
>>>>>>axis. It is also used in 'normal-mode helix' for the type of monopole
>>>>>>element often found on walkie talkies, that generates and receives a
>>>>>>linearly-polarised wave. Both of these are connected to electronics at
>>>>>>one
>>>>>>end only.
>>>>>>
>>>>
>>>> This sample, directly above, shows no distinction between your writing
>>>> and the post you responded to. I pointed this out last week in
>>>> another thread. However, at the top of this post above the starred
>>>> line, you clearly follow quoting conventions.
>>>>
>>>> 73's
>>>> Richard Clark, KB7QHC
>>>
>>>
>>> I have the 'Plain Text Settings' option 'Indent the original text with >
>>> when replying or forwarding' ticked in OE and I can't account for why it
>>> isn't working. I guess an incomplete sequence of cascaded >>>s could
>>> make the historical record difficult to follow. I wonder if this has
>>> happened when I have snipped the accumulated message trail.
>>>
>>> Chris
>>>

>>
>> its not your fault. some news senders, like art, send in a format that oe
>> can't figure out how to indent and >. i have tried lots of combinations
>> and the only one that works is to send in html format with the vertical
>> bar quoting.
>
>Thank you for that ... and I gather some get equally irritated about people
>sending HTML.
>
>Chris
>
I am not so sure that is only OE having a bad reaction to some other
non-conforming news reader. Just the same i can easily see OE getting
confused by a non-conforming news post more easily than any other news
client.

862. Re: Receiving Loop Antenna Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 21:13:58 UTC
From: dave <dave@dave.dave>
Message-ID: <498ca817$0$31189$bd467cd0@news.dslextreme.com>
Source record: 17786

JosephKK wrote:
> On Wed, 4 Feb 2009 00:12:54 -0800, "Sal M. Onella"

>>>
>> I recall medium-size table radios having a loop antenna in/on the back
>> cover. I don't know whether there was also a ferrite rod inside.
>>
> There was not one in the clock radio that i grew up with. I know, i
> had it apart by the time i was ten.
>
Most 5 tube All-Americans had a loop glued inside the Masonite back
cover. Fewer had a loopstick.

863. Astronomers discover link between supermassive black holes and galaxy formation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 22:19:42 UTC
From: "geetha.vishwas1@gmail.com" <geetha.vishwas1@gmail.com>
Message-ID: <58ce3bf9-12c2-48d2-b376-79513489e9fd@i18g2000prf.googlegroups.com>
Source record: 17787

With Hubble Space Telescope and many other telescopes around the world
to uncover new evidence that the largest, most massive galaxies in the
universe and the supermassive black holes at their hearts grew
together over time.

http://theanalystmagazine.com/pr/feb2009/808066.html

864. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-06 22:24:56 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <o3epo4hekgr9ohdsd5v05rb4vaiod593bm@4ax.com>
Source record: 17788

On Thu, 05 Feb 2009 12:29:16 -0800, Roy Lewallen <w7el@eznec.com>
wrote:

>Spin wrote:
>> Wayne.....That's interesting.....Can you elaborate on that 2 meter
>> antenna you had? I wonder if one were to make a longer version would it
>> have gain & a wider bandwidth?
>
>Just remember the general rule for antennas: small - efficient -
>broadband: pick any two.
>
>Roy Lewallen, W7EL

Methinks you forgot inexpensive. Still pick any two.

865. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 00:28:22 UTC
From: dloydlavies@gmail.com
Message-ID: <jclpo4tnbvl0u9akuhjccorbnbb6ue7eul@4ax.com>
Source record: 17789
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Fri, 6 Feb 2009 09:08:43 -0800 (PST), mopeyzakween@yahoo.com wrote:

>On Feb 5, 7:28ï¿½pm, mopeyzakw...@yahoo.com wrote:
>> moparhoLICK...the letter was sent because of 2 things....
>>
>

>
>Here are some more ebay amp auctions ratted out!
>This is being done continuously in moparhoLICK's honor. The queen
>wants to play, so she is beng obliged. You know what the numbers
>mean,
>you know what happened. Sit there and chew on it.
>
>190285026905,170300363362,280310732754,120374348876,
>200306789191,250369001259,320337978629,250368666065,
>170300087761,190284699791
>
>
>
geta real life

866. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 00:32:11 UTC
From: dloydlavies@gmail.com
Message-ID: <9klpo4h8opnkujle42oem42tmr4h6lf16p@4ax.com>
Source record: 17790
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

867. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 05:42:43 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <pb9jl.235$Sj1.129@newsfe09.iad>
Source record: 17791

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:nzVil.13060$as4.3949@nlpi069.nbdc.sbc.com...
> Sal M. Onella wrote:
> > I didn't mean to imply that a buried antenna wouldn't work at all.
>
> How about in a dry sandy desert?
> --
> 73, Cecil http://www.w5dxp.com

I don't know.

868. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 05:46:29 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gmj77fbee1@news.albasani.net>
Source record: 17792

KE5LDO wrote:
> I built this years ago as a quick antenna for receiving and
> transmitting. It is name after Havana Cuba's Arnie Coro, since He came
> up with it over 20 years ago.
> ...

Frankly, I have wondered about this. If I hooked an antenna up to my
dummy load, how far could I transmit? What kind of kilowatt signals
would be able to move my meter needle?

Or, was that only a dream? <grin>

Regards,
JS

869. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 05:49:20 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gmj7cqbee2@news.albasani.net>
Source record: 17793

Richard Clark wrote:

> ...
> In my basement shack, using a 300mW 2M Alinco HT, I can hit my buddy's
> repeater 10 miles away. The HT's antenna, fully extended, is only an
> 8 inch whip.
> ...
> 73's
> Richard Clark, KB7QHC

Don't be shy, or try to be modest ... it is guys like you that made
first contact with the aliens!

Modesty will get you no where ... <sly smile>

Regards,
JS

870. Re: "Arnie Coro Antenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 05:53:29 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gmj7kkbee3@news.albasani.net>
Source record: 17794

Michael Coslo wrote:
> Richard Clark wrote:
>
>> Dress right, or dress left?
>
>
> Took some balls to ask that question... ;^)
>
>
> - 73 de Mike N3LI -

WOW! I thought only males had those!

Thanks, you learn something new everyday ... ;-)

Regards,
JS

871. Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 07:05:01 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/recruitment-1-1233990300@panix.com>
Source record: 17795
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team. We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.
```

872. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 07:10:58 UTC
From: John Smith <assemblywizard@gmail.com>
Message-ID: <gmjc5uhqa1@news.albasani.net>
Source record: 17796

Tad Danley wrote:
> I have started to experiment with EZNEC and am modeling a couple of loop
> antennas including some delta loops. I see references to hams using 4:1
> baluns with these antennas, but the models I see show a feed point
> impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help
> - what am I missing?
>
> Thanks and 73,
>
> Tad Danley, K3TD

Tad:

A 2:1 construction of a "true" 2:1 balun is possible, however, driving a 100 ohm loop from 50 ohm coax does NOT require one--meaning, a 2:1 "RF TRANSFORMER" will suit your purposes, more than adequately.

The winding to the 50 ohm source will be half the turns of the 100 ohm winding--and there is no electrical connection between windings--i.e., the 50 and 100 windings are separate on the core.

The turns will depend on the core material/power/freqs of your intended use ...

However, the focus here is that you DO NOT need a true balun here, since the loop is inherently free from any adverse influences of using a voltage balun, a rf transformer is more than adequate for your use--and will simplify your requirements. You should find adequate construction data for a "2:1 rf transformer" (separate 50/100 ohm windings) with a google search ... etc. A ferrite bar or toroid, either, should fit your purposes, as you choose ...

Regards,
JS

873. Re: In honor of moparhoLICK, we disclose info about KD8IMG!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 08:43:58 UTC
From: Steve <moparholic@hotmail.com>
Message-ID: <20090207034829.676$Ow@newsreader.com>
Source record: 17797
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

N8WWM DOUG ADAIR mopeyzakween@yahoo.com wrote:
> the letter was sentI am involved in this situation because Mr. Trendel
> victimized my girlfriend, Kathleen Lee.
>
Is that the same Kathleen Lee that got ran for federal tax evasion and then
lost her CPA endorsement?

You may be the weakest asshat I've ever confronted, doug. You hide behind
crisco kathy's skirt. Recall when you wouldn't come outside of your toledo
hud slum and raised the BB gun at me instead after you invited me over?
Talking about how you were gonna 'put me face down in a hurting extreme'.

Stick to your keyboard doug, oh and feed your children before they hate
you.

You're best at cowering at your keyboard while I'm at the Toledo fest again
this year.

73
Steve in Medina Ohio just got down.

--
heard em' say never say never but it's always
best to keep it in mind.

874. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 09:20:34 UTC
From: dloydlavies@gmail.com
Message-ID: <8ikqo45uss9dfel803nm4sfj6mou4jc1vr@4ax.com>
Source record: 17798
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On 07 Feb 2009 08:43:58 GMT, Steve <moparholic@hotmail.com> wrote:

>N8WWM DOUG ADAIR mopeyzakween@yahoo.com wrote:
>> the letter was sentI am involved in this situation because Mr. Trendel
>> victimized my girlfriend, Kathleen Lee.
>>
>Is that the same Kathleen Lee that got ran for federal tax evasion and then
>lost her CPA endorsement?

get a life man hypoocrite

875. Private Banking Made Simple - because patsy wasted American Soldiers will just refuse to defend American values - Torture is a crime against God and Humanity. - Bush closed 911 investigations according to the FBI.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 11:07:19 UTC
From: Johnny America - No evidence against an accused is US being truly abused <11NOTREAL@hotmail.com>
Message-ID: <onqqo4h018i2vtb5n8bqrbooe4ne2tvclo@4ax.com>
Source record: 17799
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Private Banking Made Simple
http://www.mediafire.com/?xo9w32zmfox

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

-

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the
deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate
cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

Worst Person in American Broadcast Journalism
http://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel

This is like, so profound. Gibson's condemnation
is directly aimed at his own ideas of the subject
he has no grasp of. Wow. profound. See though..
this "popular" FoxsNews celeb has zero interest in
helping America succeed to defend freedom through
lawful actions, because he has no sight of a better
world blindly destroying itself. Hey Gibson! why
don't you try and be a good guy for a change! No
joke. Wow. Profound.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-c
hildren-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty
verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Toture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Ten years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all

around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be

an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men.

-

(pet bed cat trees...)
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would
have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors
in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not

Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'
dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

-

U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministerï¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change
this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&playnext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3
http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the
coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&scoring=d&

Huh? "at last been disarmed..." ? How does he figure? The equation hasn't changed. Example: The same unaccounted anthrax, (that was disintegrated into ash), still is not able to be measured as completely accounted for, (never could be), but this bushwhoring war crime apologist, tells US, it was only though the lawless murder of our good friends and family for countless generations, that he now attests without reason, or evidence, to find Iraq in "fact" disarmed of it's still nowhere to be found, weapons of mass destruction. (An irrational reason he pronounced previous in corporately broacasted public support of instigating heinous war crimes against our humanity under the leadership skills of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron. And, the Iraq war is a war crime. But Ron, the Fascist, doesn't want THESE FACTS uttered. Why? Because wiser men would prevail, wiser men like me who understand buying in bulk is cheaper. Those like Christ who understand, who KNOW, the banker doesn't cover our loans - so why give them as much as a taxed red penny?, let alone trillions as officially unaccounted for? They are stealing the cash Ron. Ask yourself: Why has Alex Jones forbidden his bushwhore cult from understanding Bush doctored the NIE?, or of iron flowing like water from the towers? Because wiser men would prevail and he can't have that. He called shooting innocent men in the back, an act of liberty. I, an actual god, unlike Alex, lie near never, but maybe to myself when I'm lonely. Alex yes will tell you rapists are free to do what they will in Texas to American children, un-arrested, but he won't mention it when the police chief is with him on air, talking about how he'd like to be exempt from traffic tickets for being so popular. NO MENTION of the rapists walking away without arrests made, no mention of Bush's documented treasons on 911. Where are Alex's priorities? In selling YOU out so he can be wealthy like a bankster?, and have special rights over everyone else that drives drunk, or speeds? a big hero standing over our dead soldiers yelling, I told you so, I told you so, I was right, I was right.

Again, understand: It is not by my will to deny
open debate with America, it is Alex, and his
demon buddy George Noory that denies out Humanity
this right. And when people try, like Peggy, or
Black men on Jewry, Alex lies cheats and steals
our wills for further thefts. Ron Paul's family has
millions taken from loyal Alex Jones fans. MILLIONS!
Does Ron do commercials with that money highlighting
the bushmob's plan to invade Afghanistan, dated two
days prior to 911 for Enron? Of course not, wiser men
would prevail to expose him as the charlatan charity
raider he is regarding Health Care, Social Security,
Public Schooling, earmarks.. It is unfair to measure
Ron against corporate nazi zionist whores of MSNBC who
willing, openly, kill American teen soldiers for
criminal neocon gains, as an honorable gentleman's
talk. Half honest People like Ron are extremely ignorant
on the workings of our world. EXTREMELY. I joke here not.
Evil is the deceived disguised - translated - evil
people are always dumb.

Corporate America says no, Charlie Manson was a genius,
but not, that most Americans are prone too easily to
suggestive states where they can be made to believe
anything blindly. Think: what does, "bin Laden did 911"
mean anyway? You should know of what I'm trying
to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.
"Free Talk Live" is the best example for this: the
two hosts are unbelievably ignorant on just about
every single subject under the sun, but beat
CONSTANTLY, on how greatly wise they are as drop-outs.
You wouldn't believe any of them when they speak on
Freedom, if you simply understood, an innocent man
does not deserve to be in OUR prisons, or tortured.
Under any circumstances that Obama has excepted for
our excuses. Magna Charta. But in Alex's 'genius' mind,
he doesn't need to actually understand he is a for
sure bigot, (measures another unfairly in a group HE
concocts from blind hate or personal fear - typical
CONSERVATIVE and/or racist) who has no problems with
that at home, or at work. Provable in seconds by
OPEN DEBATE, but Alex ain't gonna take our calls
because, he can't for the lives of every People

person thought of here, admit he could have
something to learn, therefore, the NWO is
unstoppable in his brain washed cult of indifference
to Justice practiced for the benefit of all treated
fairly. Why? He's not wise enough to respect the great
minds of the audience, and I personally believe,
he doesn't even have the good judgment to own
a gun. (I mean, why wouldn't Alex find my stories
of OUR Justice system triumphing by my single hand at least
minimally beneficial to his blind cult followings? to not
hang up on me immediately while spewing lie after lie
on how I'm top secretly a dis-info NWO artist working
for Bush? or whose voice sounds too friendly to trust?
like he has done the last four times I've phoned -
Hey! I can be an asshole if you want - no prob.)
Perhaps it's near because, Alex Jones is blind, and
as such, could actually be found guilty in Texas for
murdering those two innocent black men shot
in the back with his approval to release the murderer
from a RIGHTFUL death sentence prosecution. "law of
Parties". He is a party to the crime, for he worked to
support the release of the FOR SURE, FIRST DEGREE MURDERER.
Sound like an America you could live with? I didn't
think so either. I wanna be Alex's Attorney. Texas is
a State of massive lawless corruption, as dire
incompetence in legal affairs where they OFFICIALLY
plan executions against innocent People not established
to have harboured criminal intent! With Jury Trials!!!!
!!!!!!!!!!!!FINING THEMSELVES GUILTY!!!!!!!!!!!!
While Alex does express murderous criminal intent,
and the Police chief calls him a good man for no
scary pressures. What the fuck is wrong in Texas
where they mess themselves like this regularly?
Imagine, while Bush with the Neocons escape, and
Zionist Israeli target to murder Christian School
girls OFFICIALLY, Alex doesn't want to have to pay
traffic tickets like the rest of US. What a douche bag
to tell he LEADS our Truth movement I say. Now, I'm
not saying he shouldn't contribute with the truths
WE SHARE, far from it, it's just he can't have our
cut off switch to silence our objections to his exposed
foolishness, and/or blatant criminality. I'll give him
a chance, for starters, to criticize any position I take
while we all publically call on ourselves for
assistance internationally. Like on his "buddy",
George Noory, deserving to be tried Publicly for the
traitor he is, and be formally executed after his day
in Court. Our Courts. Teen soldiers have been conned
to die by George Noory for the escape of the neocon
terrorists who committed 911 with Condi, Runsfeld,

Bush, Myers, Tommy Franks, and General Ahmad. AND
HAPPY GEORGE NOORY KNOWS IT - and cons with lies
naked to the ear of any who can listen or hit record.
A NAKED traitor to the cause of Liberty if we ever knew
one regarding the War Crime facts of Iraq. .And
Ian Punnet is an evil godless enemy Bush whore who
lies too to get YOU killed as the innocent soldier
forsaken so don't forget.. It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars
awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable

death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

/ / the FBI says no.. There is not a thread of
fact a zionist offers to form YOUR own mind in
respect for your rights being equal to ours. \ \

Who is the guy who keeps writing such things,, and
shouldn't he be recognized as Promotional to raise
all spirits towards a better future? I'm with him.

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes
http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

Alex Jones, the Slave, told US today that
he challenged Bush for eight years - Bushite
lying nazi traitor. Not only that, but he
also ridiculed those who wish to blame Bush
now for anything! Again, he doesn't want
Justice where bad guys can't steal from
ourselves unrepresented. Ron Paul is a
multi-millioniare, made rich by charitable
aid conned from Alex Jones' NWOers! Alex
Jones doesn't have a problem with that, we
do.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

-

Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Dashle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

http://www.iran-daily.com/1387/3324/html/east.htm#s359247

/ / International attorneys have filed war crime
charges against 15 Israeli political and military
officials including Ehud Olmert, Tzipi Livni and
Ehud Barak. \ \

-

We must demand open communications to bring back
values WE ALL would agree to through polite debate.
"Conservatives" don't want this Freedom idea
expressed in general terms because, a "conservative"
is universally, minimally. a bigot. Why? Life isn't
like, their way, - then- all other opinion under
the sun on how things actually get done. (Aka
"socialist" traffic light repair men, or "liberals"
who want to treat The People fairly). Or who we are
as equals to our laws fairly practiced. Pay attention
to what I am saying here. Liberals can be Dicks with

a capital D too of course. But a Hannity couldn't survive 2 minutes with me speaking on his very real treasonous behavior in OUR public arenas. Behavior done to escape the 911 culprits from the long arm of the Law, with his conscious will of criminal deceit exposed, we all learn to better defend ourselves. And Shawn Hannity can't have that for ourselves, he takes too much money from ourselves as talentless by keeping US in the dark dying needlessly for traitors never elected publicly.

Who am I you ask? Johnny Law. at your service. Look me up with usenet to discover, we live in a world of idiots everywhere pretending to be somebody by lying. While I want US all to truly improve our condition by actually understanding how bad off we are by failing to respect ourselves for correction. Too many, know it alls, with not enough to know you need evidence to form a guilty verdict against an accused man or woman. Not according to CNN, CBC, MSNBC, Foxnews and the like however. Let's change this by supporting my challenge for top billing at the Coast to Coast radio show hosting. Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the view count? What is this business of a=a+1, the top secret, I'll go rhythm, that is way beyond our comprehension in it's scientific complexity? For Americans, okay, but the Human species just isn't this dumb.

While Zionists OFFICIALLY target Christian school girls for mass murder, CNN instead reports that bushite grunts attacked girls in Afghanistan, posing as Taliban. I WILL every celeb at CNN to be arrested, tried and executed for the reporting they have done today without facts. Remember: the Taliban played no part on escaping those responsible for 911, and opened schools for girls, and were brought together on the single purpose to defend women. Death to CNN reporters to LIE for killing OUR school girls. I HATE zionist enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US
officials from torturing but it does not ban any
of them, himself included, from sponsoring torture
overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants
the death sentence under Reagan's "War Crimes Act".
SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob

doctored the NIE. That Saddam wasn't in violation of 1441. That a NEOCON is identifiable for it's demonic LIES against God and Man. Never to tell, the private bankers don't cover OUR loans, that Bush PERSONALLY worked to close Police investigations immediately after 911 (obstruction), or that WE have video of iron flowing like water that PROVES, without doubt, bin Laden couldn't have single handedly placed the explosives in the buildings, or stole the black boxes. Because someone surely would have spotted him dragging his dialysis machine what with all the professionalism of corporate news media coverage regarding our horribly suffering worlds. Alex Jones ignores the treasons of Bush, as a Bushwhore, and instead, tells US of how Obama is Bush on steroids. He only wishes. What about Justice for Americans Alex? Why for do you forsake ourselves? For money? What about the lives lost to mass murder, that you allege to champion OUR TRUTH without saying much of anything on real Freedom?, on real Justice like your deviant election rigger, Ron Paul? Well, no wonder, Alex told US he's into shooting innocent American People in the back as a tyrant of evil, a white Devil if you will. Kids too if you dare look in his back yard for a copper. See? Now if Alex doesn't allow US to speak, more and more will understand to know why. I am a defender of all that is right and just in this world, because I don't need to lie like Alex does on a huge host of issues. I'm more like Jessie Ventura, in where I don't need/want to lie. If I end looking foolish, (of which I like never truly am), it's a benefit, because that way, I've learned something. Alex knows everything already, and 'is always right'. Like I say Retarded. You weren't right by not understanding that the banker doesn't cover the loan. One example of easily hundreds. He's a typical, he knows it all, know nothing dumduk American. Hear him on health care speak as Ron Paul does, and know, I defeat them in under ten seconds. TEN SECONDS. This is why he hasn't in years, allowed me to speak more than five or six words. He's rather all America die, than

admit he does NOT rule our 'Ocean of Truth'.
I want the challenge of opposition through debate
to PROVE my skills beyond reproach. Alex,
every time, just hangs up on anyone who tries
to improve our communications by factually
speaking. Why? Because he IS TRULY deeply
ignorant on what freedom or Justice means. Why
we have law. What a consensus is. Allan Watt is
severely disabled in this regard, another Alex
Jones favorite. And this is why, Allan can't
take calls openly either. He has jerked off
with himself too long to quit now learning
super basic precepts, for like Alex, he "knows"
the inner workings of the 'genius' NWO elites.
Not Law 101, not Bush, not Rumsfeld, Not Condi,
not Torturers, not bank robbers, rapists, or
even petty thieves. Allan Watt isn't a bad guy,
he's just a chauvinist pretending he actually
knows something, when his real disability is
directly related to his absence in understanding
understandings. Doubt is a near foreign concept.
A challenge for Allan: can you get your 'genius
mind' around the fact that Peter Powers did the
London bombings, and not the Illuminati of 1463?
and if not, why are we so dumb to our present
plight that way? Don't get me wrong, Allen has
much to offer, it just isn't the issue right
now on saving our dying futures. Maybe I was
too hard on Allen, he is really actually kinda
cool. Alex Jones too has many incredible
moments of ecstatic clarity increasing in all
they joy of seeking enlightenment. .. Ok -
but this is serious business that requires
little dilly dally with what we'll have as
a side dish in Paradise Lost. We are talking
Human Lives have been destroyed by our inaction
to remedy these failures to communicate
effectively. and.. Jeeze, the weight of my
responsibilities, as just plain John, being
a/the Legos Man - for like the Family and
everythings, get's me never forgetting, all
we got are these words left dormant from the
power they truly possess in the minds of the
wise asses. And.. here I am. I'm a Talker of
Words looking to make a break in the
NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches
who openly advocate tyranny and oppression through mass
murder of ourselves as the innocent left targeted
defenseless. Enemies of Jews everywhere, the Zionist
cares not for facts on who's Life it destroys for stolen
gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so,
why not demand the arrests of those who
broke the truce, and murdered innocent people
indiscriminately, on plans more Jews would
die for cash profit? Profit paid for by
zionist amerika? - the false imprisoning
torture and rape center for Neocon
Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

/ / This has been a central theme of the war in
Gaza: not that hundreds of innocent people were
killed, not that over 5,000 were horribly injured
and not the sky-high human and monetary cost of
wrecking homes or razing infrastructure. \ \

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival
-in-brussels/

"We believe there were dozens of IRGC
personnel in the Gaza Strip during the
war," an Israeli source said. "Some were
killed; others went into hiding, and
others escaped."

See? the demon enemy of God speaks no
evidence as a TRAITOR to every Jew. A terrorist
nation that still steals humanitarian aid in
our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Where are the Americans asking for the
formal arrest of Bush for high treason?
Whoring for Alex Jones's contempt for REAL
Justice? The ignorance of all American
talk radio hosts speaks for itself. NO

knowledge on why acts of high treason, are crimes against every American. The bushmob doctored the NIE, and Alex doesn't want Americans to know, because if they did, they ask, why does Alex do everything he can to escape those personally responsible for 911, while then asking for money to continue his fight against freedom in America. Again how much money do we have to pay Ron Paul or Alex Jones before they will allow the knowledge of the Iraq war against Human will is criminal? How much?

Obama! feel free to call on me to help out with a plan for judicial actions. That offer goes out to everyone in Palestine, Canada or Britain too. Russia, let's help out these fools by freely communicating, what say you? Justice for all is freedom to be. The Israeli cop killers must be brought to justice for war crimes. Those cops, were cops. And I, am a man.

Alex Jones Rocks!

Now Alex has problems in "my" mind because I am an ACTUAL genius, and he is generally, an idiot. Today, he did one of his usual commentaries, however this time, he was pretty honest with himself, and his love for Ron Paul. Ron Paul sells incompetence, and Alex corrected correctly!. that a.. sorry Ron but these banksters know they're robbing us as undefended blind men essentially. That's what I'm talking about!! Look, Ron Paul can be a dumb Ass, although, he's still not all that bad a guy. A Dumb guy on things like economics sure, Justice, warfare, Health Care, Social Security, ect. ect. but still., like a child learning of why the sky is funny blue, isn't all that bad a guy really. He's certainly not a war criminal, like Bush or Rumsfeld are. Doing 911 then sanctioning torture. While Neocons Champion sending illiterate American teens for death as war criminal. Think about it. Maybe he is..

-

ï¿½We have all these documents that are now publicly available that prove that these methods of interrogation were intentionally ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy like Willie Brand "the right" to RANDOMLY kidnap men, women, or children, and torture them to death for sadistic pleasure with his faggot Capt, Christopher Beiring. (I think that's how it's spelt). But anyway, this is the truth. A bushite is a godless Zionist whore of Nazi evil, an enemy of America, who wars YOUR Freedom with criminal "excuses", for refusing to support the arrest of those responsible for 911. A TRAITOR, and could be wannabe rapist, robber, or 911 mastermind ringleader. Torture is illegal, and warrants the death sentence, according to, Reagan's "War Crimes Act". Some only suggest, that this was why someone tried to kill him as honorable. Death to the torturers of our innocent families, torture they do without apology as Zionist Military "Judges". Instead today, where they get salaries paid in the billions by the zionist giving nation of, a-mirror-kay, echem, America. Johnny's America. A nation where Justice will rule for the favors of all treated equitably with or without you. Honor me in company my friend. We have no rivals.

"they do not understand, the private banker never covers the loan. Never does a private banker reach into it's pocket to borrow US to begin with - so as a consequence, the bankers have just pocketed all the 'free' loot for nothing, TRILLIONS, and are not saying why should they help anyone else up with charity?" Then went on to say, it wasn't any of our business with what they did with the money. (But for to cover criminal fraud in the derivatives market, where the true value of said commodities were backed by ZERO capital. ZERO DOLLARS. WORTH NOTHING. So, think about who's truly giving it always here until Johnny, the man who came out of nowhere, arrived to explain everything in five or six minutes.

Support Johnny America for Coast to Coast Radio Host!

-

Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoot-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen
for death by war crimes trial more like. Death to
the criminal zionist enemies of Humanity. Zionists who
falsely accuse without evidence to respect our rights,
like TV corporated Americans who treasonously LIE,
'bin Laden did 911'. Enemies of Freedom for our
Humanity.

[JEWISH!] Arrest warrant: Ehud Barak
http://www.wanted.org.il/ehud_barak_en.htm

/ / For violations of the Rome Statute
& 4th Geneva Convention \ \

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..
let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our

times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for
'lawless' grunts of ungodly action against
Life as we live it. Targeting school kids
deserves death sentences, don't you think this
value is what every soldier should hold proud
with Johnny in America? In Israel? In
Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

This post was passed to near everyone in our Secret
Service defending Obama. Let US demand Justice for
the Victims of 911, by warranting for the arrest of
every Neocon Nazi Zionist pirate of OUR Jewish faith
for Public trial on LYING for War Crimes against
our dying Humanity. War Crimes against God.

A ZIONIST LIAR'S TRUCE

/ / live images of an Israeli helicopter hovering
above the city and dropping its white phosphorous
bombs on the city \ \

Again, the Zionist deserves to die by public trial
today to defend the Jewish faith. Look at usenet.
These demonic enemies go, 'yeah, Hamas broke the
truce', they do it to kill you. To steal the lives
of innocent Peoples to profit off our deaths as
victim.

Zionists are Satanic Demon Liars of Satan

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed
Jews for money. They starve Jews in Israel
to attract more charitable aid they can use
elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of

the Synagogue to Satan!!

"We also need a massive overhaul in Our news channel
prioritizing, including to add censorship free, open line
public communications. Done to gain value in learning from
the art of conversations. We need still to appreciate the
values of a free society where Justice is above all, the
measure of our success to communicate openly."

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and
still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

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The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as
evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,

are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among
our brothers and sisters. I mean for Christ's
sake Tom, THEY ADMIT to sadistically
targeting our children for MURDER - as some
kinda Satanic demon whore to Pure Evil - aka.
Wanted War Criminals for Public Trial. Just
as the Nazis were for similar outrages. Let's
hope men of America are least half they were
then, but we are suspecting, they will as of
usual, balk as cowardly slaves to the private
banker man ruling their minds, it's a, no
wonder. Where is there that purpose striving
for a greater future living in a just society?
Where is the Christ in their Christianity?
to financially support the arming of such
unlawful Zionist killings in silence against
Innocent Christians?

Free Radio International Broadcasts Alive!

Johnny Justice for Coast to Coast radio host.

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's
verdict, if none is offered as in respect
for yourself as worthy the title of free
men? I ask as your self? Or are you as
the cowards of most in the American military
who refuse to speak for the arrest of those
who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for

indiscriminate slaughter. While they continue to STEAL OUR CHARITY by breaking truces. What is it that YOU can't picture?

"The view from the other side, that the Qassams are a retaliation for the siege that starves the one and a half million inhabitants of the Gaza Strip, [a prison death camp,] was not mentioned at all."

Masada legend galvanises Israel
http://news.bbc.co.uk/2/hi/middle_east/7830416.stm

/ / they committed collective suicide - men killing their own families, afterwards each other, until one [evil zionist liar] remained to kill himself. \ \

ISRAELI IS A THIEF WHO CAN'T SPEAK OPENLY IN DEFENSE OF OURSELVES IN OTHER WORDS? That is right. They, as documented criminal, lose every debate personally since before the dawn of Civilization because their position is clearly unsound. They are criminals who murder People in hate for a freed Humanity. They OFFICIALLY steal Peoples homes in that country didn't you know they proudly proclaim it so? And steal humanitarian aid from starving children. Targeted to murder children specifically as publicly confessed, 'it is Hamas WE blame', not them as demonic child murderers. Hideously evil as ungodly sadistic savages. Enemies of YOU, enemies of them, and enemies of me, the King of Jews Christ fellow from beyond the grave. They are so evil to God and Man, they tarnish everyone of US to not win justice sooner by blaming the actual bad guys. Justice is Freedom.

/ / Those white phosphorus shells used on the Gazans are made in the USA according to Jane's Defense. \ \

Again, these peoples are not Jews. Being Jewish is a religion. These thieves of God are Satanic in their LIES to betray the common trust in our words, that bind all worlds to victory, called freedom universal. Even tales of the Devil have him keep his word, with verses specifically condemning the self to damnation for targeting the innocent for death. God's the Word. Every word inside a fool's paradise. Including the periods. Not as

like, I'm playing a word game, but that it in wonder, is all strangely here. Example: The Universe as it has existed always, is not separate from our 'pauses', or faulty drawn conclusions. The universe, in one sense, was as good as anytime, created 6000 years ago. AS TOO 50 billion. You say, impossible, I say no, study quantum physics, and know, I live this.. our existence is not scientifically separate from the timeless nature of consciousness, proven as not only theoretical, but actual. That is a first step at developing a REAL relationship with the living Universe if you want to as like an artist does - that TOO! can be just as thought static in it's orderly constructions for Atheists. (An Atheist is still mostly a fool here however.) Overall, for any, it's sorta simple: Life has left YOU in charge of YOUR fate. Now, do well to make something of this being as eternal Life reaching for balance, as your body does, and good cops do when bringing the bushmobsters to Justice. By Israeli calling for more murder against the innocent of your mind as racists and bigots they are openly, is still shadows of YOUR mind, YOUR WORLD.. get it, got it? God is in genius to set Life as this, as like, nowhere existing, but for as yourself within. Will you speak out for the Justice denied Humanity?, or not you? Atheists can be Just too!, but generally lose it on not understanding the intelligence of order is way beyond what they dream up with assumptions. All anyone has to do is ask themselves, who do you mean "God"? Atheists are ridiculous!, but, to each his or her own, we are on a path here, believe what you want to believe. This is not a faith initiative I'm bringing by keeping this real, I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder Jews around the world for stolen money is seriously evil as criminal. What do you think? Let US have a open line discussion on this indivisible matter of rights to all as equals before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM" we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

ï¿½Main actions: Israel targets hospitals, United
Nations premises, Press offices, theaters and densely
populated buildings in west of Gaza. Additionally,
people are being used as human shieldsï¿½

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed
Jews by breaking truces with a prison death camp,
cause look at all the free American Welfare money
we can steal through kicking-back AIPAC members in
Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line
calls on the war crime enemy propagandist,
The Chorus Radio Network. CJOB STEALS millions
from Manitoba each year, and refuses all calls
for honesty in governing. They are actual
CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal
who will be going to prison, is the only person
on Earth that has publicly okayed Israeli Nazi
to target murder Christian school girls. Canada,
join me in demanding Harper's Public trial as a
war criminal. Prison for Harper who took a
honorable soldier who stated he refused to commit
war crimes against innocent civilians, and placed
him without trial in prison. Without warrant for
arrest. Harper, the Nazi Appeaser, is a War
Criminal standing against the Queen.

"Or is this another, popular amerikan past time,
of, who cares for the facts, we are at war with
God and Christ now?" Die bushite die Christ always
says against lawless torturers as mass murdering
thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest
of the Judge and prosecutor for being openly
evil demons, as TRUE enemies to freedom in
America. But guess what? Americans will refuse
to even phone Alex Jones, or George Noory
to be hung up on. Just refuse as brain dead
zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic
of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?
Like multi-millionaire Ron Paul, who gave the
fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the faggot owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty
International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting

to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.
They will rob and kill US all my INNOCENT friends
as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

Google have attacked US again as Evil doers..
They have again destroyed my writing with war
criminal intent to deny these truths as men they
could never face me, because they are not. They
STEAL our voices.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil
as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unbalanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the
days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews
like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the
eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was

137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying
freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the
free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for
senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

876. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 12:09:23 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <c011fea4-3c8e-45a8-9b85-5c4d3d7cc36a@i18g2000prf.googlegroups.com>
Source record: 17800
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

On Feb 6, 11:44 am, "Robert Lacoste" wrote:
> Are my K factor figures wrong, or is my calculation
> wrong somewhere ?

The links below lead to the AF values (K) for a self-resonant dipole in your range of frequencies. It is possible that they could roughly apply to your biconical, as it should be somewhat close to resonance across that band.

The antenna in these links was/is associated with a field intensity meter used in the VHF FM/TV broadcast bands.

The first link shows the multiplier for the voltage value measured by the meter, in order to determine the value of the incident field.

http://www.pi-usa.com/pdf/71p-3-5.pdf
http://www.pi-usa.com/pdf/71p-3-7.pdf

RF

877. Australian bush-fire

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 12:18:59 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <KrSdnVQhf5y34RDUnZ2dnUVZ8jCWnZ2d@westnet.com.au>
Source record: 17701

I was viewing the BOM (Bureau of Meteorology) weather radar of Victoria (17:00 07/02/2009) despite the fact that locals assure me that there was no rain at the time over eastern Victoria a number radar returns indicated very heavy rain at a number of the bush-fire sites. It appears that the radar was detecting the smoke.
I was under the believe that weather/rain radars gave returns from rain droplets and that smoke should give little or no return.

Any thoughts!

http://mirror.bom.gov.au/products/IDR023.loop.shtml

--
Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

878. Re: Australian bush-fire

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 13:26:23 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <5d52d694-deb0-4a31-85f4-ced18ef82d58@x9g2000yqk.googlegroups.com>
Source record: 17702

On Feb 7, 7:18 am, "Peter" <colleenpe...@westnet.com.au> wrote:
> I was viewing the BOM (Bureau of Meteorology) weather radar of Victoria
> (17:00 07/02/2009) despite the fact that locals assure me that there was no
> rain at the time over eastern Victoria a number radar returns indicated very
> heavy rain at a number of the bush-fire sites. It appears that the radar was
> detecting the smoke.
> I was under the believe that weather/rain radars gave returns from rain
> droplets and that smoke should give little or no return.
>
> Any thoughts!
>
> http://mirror.bom.gov.au/products/IDR023.loop.shtml
>
> --
> Peter VK6YSF
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

Weather radars declare a weather target based the amount of signal
recieved back or reflectivity of the target. The greater the
reflectivity the heavier the weather. Typically a series of 6
thresholds are set up with the minimum threshold indicating the
minimum level of precipitation the radar will report, under normal
conditions smoke will reflect less signal than is required to meet the
first threshold. Raging brush or forest fires are not normal
conditions as they put a huge amount of particulate matter and
moisture into the air. Otherwise there is not normally anything
special about weather radars that would allow it to tell the
difference between weather and smoke. Then again new technology is
always coming along. Most modern radars produce a digital image of the
weather in memory . This image is the processed by computer to declare
targets. If there is a difference between the signature of weather and
that of smoke it may be possible that software could or has been be
developed to tell the difference, if this is the case I am not aware
of it..

Jimmie

879. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 13:39:43 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <l6GdnS530v-5EhDUnZ2dnUVZ8u2dnZ2d@bt.com>
Source record: 17703

"John Smith" <assemblywizard@gmail.com> wrote in message
news:gmjc5uhqa1@news.albasani.net...
> Tad Danley wrote:
>> I have started to experiment with EZNEC and am modeling a couple of loop
>> antennas including some delta loops. I see references to hams using 4:1
>> baluns with these antennas, but the models I see show a feed point
>> impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would help -
>> what am I missing?
>>
>> Thanks and 73,
>>
>> Tad Danley, K3TD
>
> Tad:
>
> A 2:1 construction of a "true" 2:1 balun is possible, however, driving a
> 100 ohm loop from 50 ohm coax does NOT require one--meaning, a 2:1 "RF
> TRANSFORMER" will suit your purposes, more than adequately.
>
> The winding to the 50 ohm source will be half the turns of the 100 ohm
> winding--and there is no electrical connection between windings--i.e., the
> 50 and 100 windings are separate on the core.

Usually the turns ratio of an impedance-matching transformer is the square
of the impedance ratio. If the turns ratio, primary to secondary, is N the
secondary voltage Vo is N times the primary voltage Vi but the secondary
current Io is the primary current Ii divided by N. If the primary is fed
from a source of impedance Zi, and Zi = Vi/Ii, then on the secondary side we
have Zo = Vo/Io = NVi/(Ii/N) = (NxN)Vi/Ii. So Zo = (N^2)Zi or N = square
root of (Zo/Zi).

An impedance ratio of 2 would require a turns ratio 1.4. I wonder if
there's a reason why this case would be different.

Chris

880. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 13:43:21 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <CeydnaIt2OFgEhDUnZ2dnUVZ8vmdnZ2d@bt.com>
Source record: 17704
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

"Robert Lacoste" <see-alciom-dot-com> wrote in message
news:498c76f1$0$4098$ba4acef3@news.orange.fr...
> Hello,
>
> I am looking for the antenna factors table for a Eaton 94455-1 biconical
> antenna (20MHz to 200MHz). Does someone have a calibration table for a
> similar antenna around, or a manual for this antenna model ?
>
> More exactly I have found some K factors for it but they seems wrong,
> except if I'm wrong with the units somewhere. I have a table with figures
> ranging from "47" (65MHz) up to "59" (200MHz). Assuming these figures are
> in dB/m this would give a gain of -44dBi at 160MHz (K = 20 log(F in MHz) -
> G - 29.8 isn't it ?). The result is not reasonnable... and not at all
> compatible with the measurements.
>
> Are my K factor figures wrong, or is my calculation wrong somewhere ?
>
> Thanks for your help !
> Yours,
> Robert

A quick look on Google turned up at least one company offering to sell the
instruction manual for this antenna. Might be worth a try.

Fundamentally the value should be close to, but less than a half-wave wire
dipole at the frequency of interest.

Chris

881. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 13:53:47 UTC
From: Wimpie <wimabctel@tetech.nl>
Message-ID: <e5e82d7b-3778-4338-bc57-f1ed93e8ce3f@f3g2000yqf.googlegroups.com>
Source record: 17705
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

On 6 feb, 18:44, "Robert Lacoste" <see-alciom-dot-com> wrote:
> Hello,
>
> I am looking for the antenna factors table for a Eaton 94455-1 biconical
> antenna (20MHz to 200MHz). Does someone have a calibration table for a
> similar antenna around, or a manual for this antenna model ?
>
> More exactly I have found some K factors for it but they seems wrong, except
> if I'm wrong with the units somewhere. I have a table with figures ranging
> from "47" (65MHz) up to "59" (200MHz). Assuming these figures are in dB/m
> this would give a gain of -44dBi at 160MHz (K = 20 log(F in MHz) - G - 29.8
> isn't it ?). The result is not reasonnable... and not at all compatible with
> the measurements.
>
> Are my K factor figures wrong, or is my calculation wrong somewhere ?
>
> Thanks for your help !
> Yours,
> Robert

Hello Robert,

AF (K) for Eaton 94455-1 as a receive antenna:

30, 13.7
40, 13.5
50, 12.4
70, 7.7
100, 10.2
140, 16.0
160, 17.5
200, 12.5
Frequency in MHz, K in dB/m.

I don't have the manual, values are from a report, original source
unknown. It would be nice when somebody could confirm these values.

Hope this helps you a bit.

Best regards,

Wim
PA3DJS
www.tetech.nl
when you remove abc, the address is OK.

882. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 14:07:23 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <Y9mdnREKlqs9CBDUnZ2dnUVZ8j2dnZ2d@bt.com>
Source record: 17706

"christofire" <christofire@btinternet.com> wrote in message
news:l6GdnS530v-5EhDUnZ2dnUVZ8u2dnZ2d@bt.com...
>
> "John Smith" <assemblywizard@gmail.com> wrote in message
> news:gmjc5uhqa1@news.albasani.net...
>> Tad Danley wrote:
>>> I have started to experiment with EZNEC and am modeling a couple of loop
>>> antennas including some delta loops. I see references to hams using 4:1
>>> baluns with these antennas, but the models I see show a feed point
>>> impedance of roughly 100 ohms. I'm not sure how a 4:1 balun would
>>> help - what am I missing?
>>>
>>> Thanks and 73,
>>>
>>> Tad Danley, K3TD
>>
>> Tad:
>>
>> A 2:1 construction of a "true" 2:1 balun is possible, however, driving a
>> 100 ohm loop from 50 ohm coax does NOT require one--meaning, a 2:1 "RF
>> TRANSFORMER" will suit your purposes, more than adequately.
>>
>> The winding to the 50 ohm source will be half the turns of the 100 ohm
>> winding--and there is no electrical connection between windings--i.e.,
>> the 50 and 100 windings are separate on the core.
>
- - - - - -
>
> Usually the turns ratio of an impedance-matching transformer is the square
> of the impedance ratio. If the turns ratio, primary to secondary, is N
> the secondary voltage Vo is N times the primary voltage Vi but the
> secondary current Io is the primary current Ii divided by N. If the
> primary is fed from a source of impedance Zi, and Zi = Vi/Ii, then on the
> secondary side we have Zo = Vo/Io = NVi/(Ii/N) = (NxN)Vi/Ii. So Zo =
> (N^2)Zi or N = square root of (Zo/Zi).
>
> An impedance ratio of 2 would require a turns ratio 1.4. I wonder if
> there's a reason why this case would be different.
>
> Chris

Ooops, I missed out the important word 'root' in my first line above!

The impedance ratio is the square of the turns ratio.
The turns ratio is the square-root of the impedance ratio.

Chris

883. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 14:38:44 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <R1hjl.6577$jZ1.855@flpi144.ffdc.sbc.com>
Source record: 17707

John Smith wrote:
> The winding to the 50 ohm source will be half the turns of the 100 ohm
> winding--and there is no electrical connection between windings--i.e.,
> the 50 and 100 windings are separate on the core.

Or it could be wound as an autotransformer.
--
73, Cecil http://www.w5dxp.com

884. Stalker Robert Trendel, KD8IMG's anti-stalking orders...one of em is his next door neighbor!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 20:31:59 UTC
From: mopeyzakween@yahoo.com
Message-ID: <41b800a4-59e0-45ea-bd9b-eb2b1c0cc82b@y23g2000pre.googlegroups.com>
Source record: 17708
Cross-posted to: rec.radio.cb,rec.radio.amateur.misc,rec.radio.amateur.antenna,rec.radio.amateur.policy

http://apps.co.lucas.oh.us/onlinedocketstest/Docket.aspx?STYPE=1&PAR=CI200802176-000&STARTDATE=01/01/1900&ENDDATE=01/01/2100&PARTY=0

http://apps.co.lucas.oh.us/onlinedocketstest/Docket.aspx?STYPE=1&PAR=CI200802161-000&STARTDATE=01/01/1900&ENDDATE=01/01/2100&PARTY=0

885. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 20:37:34 UTC
From: dloydlavies@gmail.com
Message-ID: <c8sro4tvo4jk4qf736g1ob65slnutlvtph@4ax.com>
Source record: 17709
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

886. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 21:18:48 UTC
From: nm5k@wt.net
Message-ID: <8b24f837-7605-4948-b707-79cfe464be83@e1g2000pra.googlegroups.com>
Source record: 17710

On Feb 7, 8:38 am, Cecil Moore <nos...@w5dxp.com> wrote:
> John Smith wrote:
> > The winding to the 50 ohm source will be half the turns of the 100 ohm
> > winding--and there is no electrical connection between windings--i.e.,
> > the 50 and 100 windings are separate on the core.
>
> Or it could be wound as an autotransformer.
> --
> 73, Cecil http://www.w5dxp.com

I still prefer just a simple coax series transformer.
As an example, for a 40m loop, about 22 ft of
75 ohm coax will do the trick.

887. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-07 22:46:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <8gojl.10358$pr6.4130@flpi149.ffdc.sbc.com>
Source record: 17711

nm5k@wt.net wrote:
> I still prefer just a simple coax series transformer.
> As an example, for a 40m loop, about 22 ft of
> 75 ohm coax will do the trick.

But that wouldn't meet the 2:1 transformer requirement.
--
73, Cecil http://www.w5dxp.com

888. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 02:31:36 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <iNednV_6-oQU3hPUnZ2dnUVZ_j2dnZ2d@posted.easystreetonline>
Source record: 17712
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

Wimpie wrote:
>
> Hello Robert,
>
> AF (K) for Eaton 94455-1 as a receive antenna:
>
> 30, 13.7
> 40, 13.5
> 50, 12.4
> 70, 7.7
> 100, 10.2
> 140, 16.0
> 160, 17.5
> 200, 12.5
> Frequency in MHz, K in dB/m.
>
> I don't have the manual, values are from a report, original source
> unknown. It would be nice when somebody could confirm these values.
>
> Hope this helps you a bit.
>
> Best regards,
>
> Wim
> PA3DJS
> www.tetech.nl
> when you remove abc, the address is OK.

It's been a long time since I've done field strength measurements, but I recall that each antenna came with a calibration chart for that particular antenna -- that's really what you're paying for when you buy one. I wouldn't expect a great deal of difference from one to another, but don't have the experience to say how much variation you might expect.

Roy Lewallen, W7EL

889. Re: In honor of moparhoLICK, we disclose info about KD8IMG!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 03:17:22 UTC
From: mopeyzakween@yahoo.com
Message-ID: <a21ff795-6db8-4b12-8ba1-6117c9c7f3a1@i18g2000prf.googlegroups.com>
Source record: 17713
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 7, 3:43 am, Steve <moparho...@hotmail.com> wrote:
> N8WWM DOUG ADAIR mopeyzakw...@yahoo.com wrote:> the letter was sentI am involved in this situation because Mr. Trendel
> > victimized my girlfriend, Kathleen Lee.
>
> Is that the same Kathleen Lee that got ran for federal tax evasion and then
> lost her CPA endorsement?
>
> You may be the weakest asshat I've ever confronted, doug. You hide behind
> crisco kathy's skirt. Recall when you wouldn't come outside of your toledo
> hud slum and raised the BB gun at me instead after you invited me over?
> Talking about how you were gonna 'put me face down in a hurting extreme'.
>
> Stick to your keyboard doug, oh and feed your children before they hate
> you.
>
> You're best at cowering at your keyboard while I'm at the Toledo fest again
> this year.
>
> 73
> Steve in Medina Ohio just got down.
>
> --
> heard em' say never say never but it's always
> best to keep it in mind.

Fuck you punk...I'll be at Toledo just like I was before...plenty of
people see me there every year. You talk like a boy with a paper
asshole. Now, others will see what happens when they associate with
you. Nobody cares what you do asswipe. We control you. We turn you on
and shut you off at will.

890. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 03:23:12 UTC
From: mopeyzakween@yahoo.com
Message-ID: <679c7c02-8526-4b57-8dd1-5c0eea7ab7eb@a39g2000prl.googlegroups.com>
Source record: 17714
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 7, 4:20 am, dloydlav...@gmail.com wrote:
> On 07 Feb 2009 08:43:58 GMT, Steve <moparho...@hotmail.com> wrote:
>
> >N8WWM DOUG ADAIR mopeyzakw...@yahoo.com wrote:
> >> the letter was sentI am involved in this situation because Mr. Trendel
> >> victimized my girlfriend, Kathleen Lee.
>
> >Is that the same Kathleen Lee that got ran for federal tax evasion and then
> >lost her CPA endorsement?
>
> get a life man hypoocrite

The pussy can't take it. We push the button and she spews forth. He'd
be better off weaning his wife away from Pierre the poodle, but he is
too gay to do that...hehe

891. Re: Australian bush-fire

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 03:24:19 UTC
From: mopeyzakween@yahoo.com
Message-ID: <d99556ce-c23a-444d-98c7-7203534ae82e@v18g2000pro.googlegroups.com>
Source record: 17715

On Feb 7, 7:18 am, "Peter" <colleenpe...@westnet.com.au> wrote:
> I was viewing the BOM (Bureau of Meteorology) weather radar of Victoria
> (17:00 07/02/2009) despite the fact that locals assure me that there was no
> rain at the time over eastern Victoria a number radar returns indicated very
> heavy rain at a number of the bush-fire sites. It appears that the radar was
> detecting the smoke.
> I was under the believe that weather/rain radars gave returns from rain
> droplets and that smoke should give little or no return.
>
> Any thoughts!
>
> http://mirror.bom.gov.au/products/IDR023.loop.shtml
>
> --
> Peter VK6YSF
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

who cares brainless bluster

892. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 03:52:11 UTC
From: nm5k@wt.net
Message-ID: <d8677586-1325-4592-a9ce-2a82e960c7a7@e1g2000pra.googlegroups.com>
Source record: 17716

On Feb 7, 4:46 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> n...@wt.net wrote:
> > I still prefer just a simple coax series transformer.
> > As an example, for a 40m loop, about 22 ft of
> > 75 ohm coax will do the trick.
>
> But that wouldn't meet the 2:1 transformer requirement.
> --
> 73, Cecil http://www.w5dxp.com

Should be pretty close. But calculating it, I show
about 22.7 feet would be the best length for 7.150mhz.
Assuming a 52 ohm feedline, and 75 ohm 1/4 wave
section and a Zr of 120 ohms.
I've used them before. Not really that critical on the
precise length as long as it's pretty close.

893. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 04:00:19 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <nNsjl.10509$Db2.8903@edtnps83>
Source record: 17717
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:iNednV_6-oQU3hPUnZ2dnUVZ_j2dnZ2d@posted.easystreetonline...
> Wimpie wrote:
>>
>> Hello Robert,
>>
>> AF (K) for Eaton 94455-1 as a receive antenna:
>>
>> 30, 13.7
>> 40, 13.5
>> 50, 12.4
>> 70, 7.7
>> 100, 10.2
>> 140, 16.0
>> 160, 17.5
>> 200, 12.5
>> Frequency in MHz, K in dB/m.
>>
>> I don't have the manual, values are from a report, original source
>> unknown. It would be nice when somebody could confirm these values.
>>
>> Hope this helps you a bit.
>>
>> Best regards,
>>
>> Wim
>> PA3DJS
>> www.tetech.nl
>> when you remove abc, the address is OK.
>
> It's been a long time since I've done field strength measurements, but I
> recall that each antenna came with a calibration chart for that particular
> antenna -- that's really what you're paying for when you buy one. I
> wouldn't expect a great deal of difference from one to another, but don't
> have the experience to say how much variation you might expect.
>
> Roy Lewallen, W7EL

http://www.ets-lindgren.com/page/charts.cfm?i=3104C
Has typical cal charts for 3104C biconical. The
actual antennas are individually calibrated. The
antenna factors are not that far from Wim's example
above.

Frank

894. Re: loops and 4:1 baluns

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 04:43:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <7qtjl.6643$jZ1.5013@flpi144.ffdc.sbc.com>
Source record: 17718

nm5k@wt.net wrote:
> Should be pretty close.

Sorry, I thought you were talking about an ugly balun.
--
73, Cecil http://www.w5dxp.com

895. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 05:56:28 UTC
From: "w4nti@live.com" <w4nti@live.com>
Message-ID: <191051fc-2c6f-4483-9a95-7c969fc2738b@q9g2000yqc.googlegroups.com>
Source record: 17719
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 8, 12:13 am, "Dingbat" <anon@anon> wrote:

dingbatis right
> The guy is a closet homosexual. He says he is bisexual, but any man who
> sucks off another man is a Homosexual.
>
> No way around that, no matter how Mark likes to skirt the issue.

simply not true but why are you attacking his privacvy

896. get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 05:57:29 UTC
From: "w4nti@live.com" <w4nti@live.com>
Message-ID: <2eeec255-e54c-4672-ab10-210543a8f320@p20g2000yqi.googlegroups.com>
Source record: 17720
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy
Body handling: HTML body converted to readable text

```
On Feb 7, 2:02 pm, Pink Pimpernel wrote:
> The substitute U.P. hot spot, Applebee's Grill and Bar, is tonite's "in"
> place and all kewl pple know it. For a good time watching local
> thespians and magickal pple, come to
>
> Applebee's Grill & Bar
> 980 Razorback Dr
> Houghton, MI 49931
> (906) 482-2800
>
> Be sure to bring yer cents of humor with you.
>
> Instead of karaoke, Applebee's has a "shoot your own video" contest that
> will be an exciting substitute. Come to Applebee's, get drunk, disrobe,
> and make a sex video of yourself suitable for the internet.
>
> http://www.applebees.com/realvideos/default.aspx
>
> It's what all kewl Houghton pple do.
>
> Besides that, Applebee's has set up a temporary enema room with its own
> beer keg and floor drain so that you can enjoy beer yer own way. This
> is a feature which normally can be found only in the Greenlight Lounge,
> but this weekend Applebee's is making an exception.
>
> We have fun, fun, fun, fun, fun ever Saturday night, so put on yer
> leotards or yer spandex and get to stepping. Be thier or be square.

get a life
```

897. get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 06:00:19 UTC
From: "w4nti@live.com" <w4nti@live.com>
Message-ID: <a0fa86a9-0db3-45c8-9ab1-97bd98f71214@x10g2000yqk.googlegroups.com>
Source record: 17723
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 6, 8:51 pm, "Not Mark" <anon@anon> wrote:
> Roger's taxes on his Castle just went down. Mark wants to buy the house
> across the street so he and Roger can be closer.
>
> http://whywogersucks.blogspot.com
radio content

898. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 06:01:05 UTC
From: "w4nti@live.com" <w4nti@live.com>
Message-ID: <379f2f1d-6c95-4a53-be0f-de39ec663193@a12g2000yqm.googlegroups.com>
Source record: 17724
Cross-posted to: rec.radio.cb,rec.radio.amateur.misc,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 7, 3:31 pm, mopeyzakw...@yahoo.com wrote:
>
get a life please

899. get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 06:02:06 UTC
From: "w4nti@live.com" <w4nti@live.com>
Message-ID: <f48fbed2-de46-415e-9427-fabaa1ce1e36@f3g2000yqf.googlegroups.com>
Source record: 17725
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 6, 7:12 pm, UberJacker <nohij...@houston-hunks.com> wrote:
> On Feb 6, 11:14 am, "Mark du U.P." <M...@chicken.poop> wrote:
>
get a life

900. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 06:05:04 UTC
From: dloydlavies@gmail.com
Message-ID: <tbtso45cie6kl4sn9cghl4resuodqlbul7@4ax.com>
Source record: 17721
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sat, 7 Feb 2009 19:23:12 -0800 (PST), mopeyzakween@yahoo.com wrote:

>On Feb 7, 4:20ï¿½am, dloydlav...@gmail.com wrote:
>> On 07 Feb 2009 08:43:58 GMT, Steve <moparho...@hotmail.com> wrote:
>>
>> >N8WWM DOUG ADAIR mopeyzakw...@yahoo.com wrote:
>> >> the letter was sentI am involved in this situation because Mr. Trendel
>> >> victimized my girlfriend, Kathleen Lee.
>>
>> >Is that the same Kathleen Lee that got ran for federal tax evasion and then
>> >lost her CPA endorsement?
>>
>> get a life man hypoocrite
>
>The pussy can't take it. We push the button and she spews forth. He'd
>be better off weaning his wife away from Pierre the poodle, but he is
>too gay to do that...hehe
get a life gay or not is none off your affiar or mine

901. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 06:05:30 UTC
From: dloydlavies@gmail.com
Message-ID: <ngtso4tg12s1366rd5020lre28mi6oodgr@4ax.com>
Source record: 17722
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sat, 7 Feb 2009 19:17:22 -0800 (PST), mopeyzakween@yahoo.com wrote:

>On Feb 7, 3:43ï¿½am, Steve <moparho...@hotmail.com> wrote:

>
>Fuck you punk...
get a life

902. get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 06:14:03 UTC
From: dloydlavies@gmail.com
Message-ID: <o0uso4hmlmpgr3b5fi3p3blm4lquvljuu4@4ax.com>
Source record: 17726
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sat, 7 Feb 2009 19:02:09 +0000 (UTC), Pink Pimpernel <Pink@is.in>
wrote:

>The substitute U.P. hot spot, Applebee's Grill and Bar, is tonite's "in"
>place and all kewl pple know it. For a good time watching local
>thespians and magickal pple, come to
>
>Applebee's Grill & Bar
>980 Razorback Dr
>Houghton, MI 49931
>(906) 482-2800
>
>Be sure to bring yer cents of humor with you.
>
>Instead of karaoke, Applebee's has a "shoot your own video" contest that
>will be an exciting substitute. Come to Applebee's, get drunk, disrobe,
>and make a sex video of yourself suitable for the internet.
>
>http://www.applebees.com/realvideos/default.aspx
>
>It's what all kewl Houghton pple do.
>
>Besides that, Applebee's has set up a temporary enema room with its own
>beer keg and floor drain so that you can enjoy beer yer own way. This
>is a feature which normally can be found only in the Greenlight Lounge,
>but this weekend Applebee's is making an exception.
>
>We have fun, fun, fun, fun, fun ever Saturday night, so put on yer
>leotards or yer spandex and get to stepping. Be thier or be square.
you are pretty sick

903. Re: cantenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 14:06:26 UTC
From: KC8QJP <KC8QJP@yahoo.com>
Message-ID: <498ee6e4$0$19491$c5fe31e7@read01-hal>
Source record: 17727
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

"Allodoxaphobia" <bit-bucket@config.com> wrote in message
news:slrnglt9jd.1hjp.bit-bucket@shell.config.com...
> On Fri, 02 Jan 2009 15:36:17 -0500, Billy Burpelson wrote:
>>
>> I am a bit puzzled. IIRC, the silicone in women's breast implants
>> would/could/did leak and cause fairly serious health problems. Yet, Dr.
>> Ornitz says "Silicone oils are excellent from a health standpoint" and
>> Mr. Smith says: "food grade".
>>
>> Could anyone take a shot at explaining this apparent dichotomy?
>
> Plaintiffs' lawyers and defendants' lawyers....
>
>
Crisco makes a great lubricant.

904. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 14:28:47 UTC
From: "w4nti@live.com" <w4nti@live.com>
Message-ID: <0c81ef78-1880-4c47-a7b3-2a2cf9417869@s20g2000yqh.googlegroups.com>
Source record: 17728
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 8, 1:02 am, "w4...@live.com" <w4...@live.com> wrote:
> On Feb 6, 7:12 pm, UberJacker <nohij...@houston-hunks.com> wrote:> On Feb 6, 11:14 am, "Mark du U.P." <M...@chicken.poop> wrote:
>
> get a life

905. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 18:44:04 UTC
From: mopeyzakween@yahoo.com
Message-ID: <ddbf9457-601e-4e1e-b965-16caabc002c3@v5g2000prm.googlegroups.com>
Source record: 17729
Cross-posted to: rec.radio.cb,rec.radio.amateur.misc,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 8, 1:01 am, "w4...@live.com" <w4...@live.com> wrote:
> On Feb 7, 3:31 pm, mopeyzakw...@yahoo.com wrote:
>
> get a life please

butt out butthead

906. TV distribution equipment (advert)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 20:21:42 UTC
From: Bill Wright <insertmybusinessname@f2s.com>
Message-ID: <BuydnQIuau1-oxLUnZ2dnUVZ8rydnZ2d@pipex.net>
Source record: 17730

There's a sale of second-hand TV distribution equipment here.

http://shop.ebay.co.uk/merchant/tvaerialguy_W0QQ_nkwZQQ_armrsZ1QQ_fromZQQ_mdoZ

The sale includes modulators, amplifiers, receivers, and various other bits
and bobs.

Bill

907. Re: TV distribution equipment (advert)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-08 22:18:49 UTC
From: "D. Stussy" <spam@bde-arc.ampr.org>
Message-ID: <gmnlo4ruk1@snarked.org>
Source record: 17731

"Bill Wright" <insertmybusinessname@f2s.com> wrote in message
news:BuydnQIuau1-oxLUnZ2dnUVZ8rydnZ2d@pipex.net...
> There's a sale of second-hand TV distribution equipment here.

Wrong group - SPAMMER.

908. which side are YOU on? - How come godless Americans don't support calling for the arrest of Bush for mass murder? for closing Police investigations on 911? for torture? For stealing trillions? Why doesn't the NWOers invite someone who can explain why the Iraq war is a crime against our humanity AS CRITICAL?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 00:48:24 UTC
From: Johnny America - No evidence against an accused is US being truly abused <7373nomailhere@hotmail.com>
Message-ID: <eavuo4tboli4eltf9a2de6facarmfh3jpo@4ax.com>
Source record: 17732
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Private Banking Made Simple
http://rapidshare.com/files/195753948/Stadtmiller_1_020609_160000.mp3.html
http://www.mediafire.com/?xo9w32zmfox

-

Godsmack - I Fucking Hate You
http://www.youtube.com/watch?v=FiPtHkfDXus

Hey! Johnny's new theme song playing when
I be bagging the bushite zionist whores of
the demon antichrist, Our Mr. Bush Jr. Bush
closed 911 investigations, Bush lied about
Saddam not letting inspectors in, Bush never won an
word fairly in his entire war crime life of
game rigging with naked deceit and betrayal to
the cause of Man, die bushite die. Rock on
my friends, rock on.

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why
bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what
any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough
-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the
deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate
cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

Worst Person in American Broadcast Journalism
http://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel

This is like, so profound. Gibson's condemnation
is directly aimed at his own ideas of the subject
he has no grasp of. Wow. profound. See though..
this "popular" FoxsNews celeb has zero interest in
helping America succeed to defend freedom through
lawful actions, because he has no sight of a better
world blindly destroying itself. Hey Gibson! why
don't you try and be a good guy for a change! No
joke. Wow. Profound.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-c
hildren-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty
verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Ten years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all

around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be

an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men.

-

(pet bed cat trees...)
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would
have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors
in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not

Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'
dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

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U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministerï¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change
this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&playnext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3
http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the
coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&scoring=d&

Huh? "at last been disarmed..." ? How does he figure? The equation hasn't changed. Example: The same unaccounted anthrax, (that was disintegrated into ash), still is not able to be measured as completely accounted for, (never could be), but this bushwhoring war crime apologist, tells US, it was only though the lawless murder of our good friends and family for countless generations, that he now attests without reason, or evidence, to find Iraq in "fact" disarmed of it's still nowhere to be found, weapons of mass destruction. (An irrational reason he pronounced previous in corporately broacasted public support of instigating heinous war crimes against our humanity under the leadership skills of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron. And, the Iraq war is a war crime. But Ron, the Fascist, doesn't want THESE FACTS uttered. Why? Because wiser men would prevail, wiser men like me who understand buying in bulk is cheaper. Those like Christ who understand, who KNOW, the banker doesn't cover our loans - so why give them as much as a taxed red penny?, let alone trillions as officially unaccounted for? They are stealing the cash Ron. Ask yourself: Why has Alex Jones forbidden his bushwhore cult from understanding Bush doctored the NIE?, or of iron flowing like water from the towers? Because wiser men would prevail and he can't have that. He called shooting innocent men in the back, an act of liberty. I, an actual god, unlike Alex, lie near never, but maybe to myself when I'm lonely. Alex yes will tell you rapists are free to do what they will in Texas to American children, un-arrested, but he won't mention it when the police chief is with him on air, talking about how he'd like to be exempt from traffic tickets for being so popular. NO MENTION of the rapists walking away without arrests made, no mention of Bush's documented treasons on 911. Where are Alex's priorities? In selling YOU out so he can be wealthy like a bankster?, and have special rights over everyone else that drives drunk, or speeds? a big hero standing over our dead soldiers yelling, I told you so, I told you so, I was right, I was right.

Again, understand: It is not by my will to deny
open debate with America, it is Alex, and his
demon buddy George Noory that denies out Humanity
this right. And when people try, like Peggy, or
Black men on Jewry, Alex lies cheats and steals
our wills for further thefts. Ron Paul's family has
millions taken from loyal Alex Jones fans. MILLIONS!
Does Ron do commercials with that money highlighting
the bushmob's plan to invade Afghanistan, dated two
days prior to 911 for Enron? Of course not, wiser men
would prevail to expose him as the charlatan charity
raider he is regarding Health Care, Social Security,
Public Schooling, earmarks.. It is unfair to measure
Ron against corporate nazi zionist whores of MSNBC who
willing, openly, kill American teen soldiers for
criminal neocon gains, as an honorable gentleman's
talk. Half honest People like Ron are extremely ignorant
on the workings of our world. EXTREMELY. I joke here not.
Evil is the deceived disguised - translated - evil
people are always dumb.

Corporate America says no, Charlie Manson was a genius,
but not, that most Americans are prone too easily to
suggestive states where they can be made to believe
anything blindly. Think: what does, "bin Laden did 911"
mean anyway? You should know of what I'm trying
to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.
"Free Talk Live" is the best example for this: the
two hosts are unbelievably ignorant on just about
every single subject under the sun, but beat
CONSTANTLY, on how greatly wise they are as drop-outs.
You wouldn't believe any of them when they speak on
Freedom, if you simply understood, an innocent man
does not deserve to be in OUR prisons, or tortured.
Under any circumstances that Obama has excepted for
our excuses. Magna Charta. But in Alex's 'genius' mind,
he doesn't need to actually understand he is a for
sure bigot, (measures another unfairly in a group HE
concocts from blind hate or personal fear - typical
CONSERVATIVE and/or racist) who has no problems with
that at home, or at work. Provable in seconds by
OPEN DEBATE, but Alex ain't gonna take our calls
because, he can't for the lives of every People

person thought of here, admit he could have
something to learn, therefore, the NWO is
unstoppable in his brain washed cult of indifference
to Justice practiced for the benefit of all treated
fairly. Why? He's not wise enough to respect the great
minds of the audience, and I personally believe,
he doesn't even have the good judgment to own
a gun. (I mean, why wouldn't Alex find my stories
of OUR Justice system triumphing by my single hand at least
minimally beneficial to his blind cult followings? to not
hang up on me immediately while spewing lie after lie
on how I'm top secretly a dis-info NWO artist working
for Bush? or whose voice sounds too friendly to trust?
like he has done the last four times I've phoned -
Hey! I can be an asshole if you want - no prob.)
Perhaps it's near because, Alex Jones is blind, and
as such, could actually be found guilty in Texas for
murdering those two innocent black men shot
in the back with his approval to release the murderer
from a RIGHTFUL death sentence prosecution. "law of
Parties". He is a party to the crime, for he worked to
support the release of the FOR SURE, FIRST DEGREE MURDERER.
Sound like an America you could live with? I didn't
think so either. I wanna be Alex's Attorney. Texas is
a State of massive lawless corruption, as dire
incompetence in legal affairs where they OFFICIALLY
plan executions against innocent People not established
to have harboured criminal intent! With Jury Trials!!!!
!!!!!!!!!!!!FINING THEMSELVES GUILTY!!!!!!!!!!!!
While Alex does express murderous criminal intent,
and the Police chief calls him a good man for no
scary pressures. What the fuck is wrong in Texas
where they mess themselves like this regularly?
Imagine, while Bush with the Neocons escape, and
Zionist Israeli target to murder Christian School
girls OFFICIALLY, Alex doesn't want to have to pay
traffic tickets like the rest of US. What a douche bag
to tell he LEADS our Truth movement I say. Now, I'm
not saying he shouldn't contribute with the truths
WE SHARE, far from it, it's just he can't have our
cut off switch to silence our objections to his exposed
foolishness, and/or blatant criminality. I'll give him
a chance, for starters, to criticize any position I take
while we all publically call on ourselves for
assistance internationally. Like on his "buddy",
George Noory, deserving to be tried Publicly for the
traitor he is, and be formally executed after his day
in Court. Our Courts. Teen soldiers have been conned
to die by George Noory for the escape of the neocon
terrorists who committed 911 with Condi, Runsfeld,

Bush, Myers, Tommy Franks, and General Ahmad. AND
HAPPY GEORGE NOORY KNOWS IT - and cons with lies
naked to the ear of any who can listen or hit record.
A NAKED traitor to the cause of Liberty if we ever knew
one regarding the War Crime facts of Iraq. .And
Ian Punnet is an evil godless enemy Bush whore who
lies too to get YOU killed as the innocent soldier
forsaken so don't forget.. It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars
awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable
death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

/ / the FBI says no.. There is not a thread of
fact a zionist offers to form YOUR own mind in
respect for your rights being equal to ours. \ \

Who is the guy who keeps writing such things,, and
shouldn't he be recognized as Promotional to raise
all spirits towards a better future? I'm with him.

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes
http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

Alex Jones, the Slave, told US today that
he challenged Bush for eight years - Bushite
lying nazi traitor. Not only that, but he
also ridiculed those who wish to blame Bush
now for anything! Again, he doesn't want
Justice where bad guys can't steal from
ourselves unrepresented. Ron Paul is a
multi-millioniare, made rich by charitable
aid conned from Alex Jones' NWOers! Alex
Jones doesn't have a problem with that, we

do.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

-

Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Dashle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

http://www.iran-daily.com/1387/3324/html/east.htm#s359247

/ / International attorneys have filed war crime
charges against 15 Israeli political and military
officials including Ehud Olmert, Tzipi Livni and
Ehud Barak. \ \

-

We must demand open communications to bring back
values WE ALL would agree to through polite debate.
"Conservatives" don't want this Freedom idea
expressed in general terms because, a "conservative"
is universally, minimally. a bigot. Why? Life isn't
like, their way, - then- all other opinion under
the sun on how things actually get done. (Aka
"socialist" traffic light repair men, or "liberals"
who want to treat The People fairly). Or who we are
as equals to our laws fairly practiced. Pay attention
to what I am saying here. Liberals can be Dicks with
a capital D too of course. But a Hannity couldn't
survive 2 minutes with me speaking on his very real
treasonous behavior in OUR public arenas. Behavior
done to escape the 911 culprits from the long arm of
the Law, with his conscious will of criminal deceit
exposed, we all learn to better defend ourselves.
And Shawn Hannity can't have that for ourselves, he
takes too much money from ourselves as talentless by
keeping US in the dark dying needlessly for traitors

never elected publicly.

Who am I you ask? Johnny Law. at your service. Look
me up with usenet to discover, we live in a world of
idiots everywhere pretending to be somebody by lying.
While I want US all to truly improve our condition by
actually understanding how bad off we are by failing
to respect ourselves for correction. Too many, know
it alls, with not enough to know you need evidence to
form a guilty verdict against an accused man or woman.
Not according to CNN, CBC, MSNBC, Foxnews and the like
however. Let's change this by supporting my challenge
for top billing at the Coast to Coast radio show hosting.
Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the
view count? What is this business of a=a+1, the
top secret, I'll go rhythm, that is way beyond
our comprehension in it's scientific complexity?
For Americans, okay, but the Human species just
isn't this dumb.

While Zionists OFFICIALLY target Christian school
girls for mass murder, CNN instead reports that
bushite grunts attacked girls in Afghanistan, posing
as Taliban. I WILL every celeb at CNN to be arrested,
tried and executed for the reporting they have done
today without facts. Remember: the Taliban played no
part on escaping those responsible for 911, and opened
schools for girls, and were brought together on the
single purpose to defend women. Death to CNN reporters
to LIE for killing OUR school girls. I HATE zionist
enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US
officials from torturing but it does not ban any
of them, himself included, from sponsoring torture
overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants
the death sentence under Reagan's "War Crimes Act".
SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,

will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close
Police investigations immediately after
911 (obstruction), or that WE have video
of iron flowing like water that PROVES,

without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with
all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice like your deviant election rigger,
Ron Paul? Well, no wonder, Alex told US he's
into shooting innocent American People in
the back as a tyrant of evil, a white Devil
if you will. Kids too if you dare look in
his back yard for a copper. See? Now if Alex
doesn't allow US to speak, more and more will
understand to know why. I am a defender of
all that is right and just in this world,
because I don't need to lie like Alex does on
a huge host of issues. I'm more like Jessie
Ventura, in where I don't need/want to lie.
If I end looking foolish, (of which I like
never truly am), it's a benefit, because that
way, I've learned something. Alex knows
everything already, and 'is always right'.
Like I say Retarded. You weren't right by not
understanding that the banker doesn't cover
the loan. One example of easily hundreds. He's
a typical, he knows it all, know nothing dumduk
American. Hear him on health care speak as
Ron Paul does, and know, I defeat them in under
ten seconds. TEN SECONDS. This is why he hasn't
in years, allowed me to speak more than five
or six words. He's rather all America die, than
admit he does NOT rule our 'Ocean of Truth'.
I want the challenge of opposition through debate
to PROVE my skills beyond reproach. Alex,
every time, just hangs up on anyone who tries
to improve our communications by factually
speaking. Why? Because he IS TRULY deeply
ignorant on what freedom or Justice means. Why
we have law. What a consensus is. Allan Watt is
severely disabled in this regard, another Alex

Jones favorite. And this is why, Allan can't take calls openly either. He has jerked off with himself too long to quit now learning super basic precepts, for like Alex, he "knows" the inner workings of the 'genius' NWO elites. Not Law 101, not Bush, not Rumsfeld, Not Condi, not Torturers, not bank robbers, rapists, or even petty thieves. Allan Watt isn't a bad guy, he's just a chauvinist pretending he actually knows something, when his real disability is directly related to his absence in understanding understandings. Doubt is a near foreign concept. A challenge for Allan: can you get your 'genius mind' around the fact that Peter Powers did the London bombings, and not the Illuminati of 1463? and if not, why are we so dumb to our present plight that way? Don't get me wrong, Allen has much to offer, it just isn't the issue right now on saving our dying futures. Maybe I was too hard on Allen, he is really actually kinda cool. Alex Jones too has many incredible moments of ecstatic clarity increasing in all they joy of seeking enlightenment. .. Ok - but this is serious business that requires little dilly dally with what we'll have as a side dish in Paradise Lost. We are talking Human Lives have been destroyed by our inaction to remedy these failures to communicate effectively. and.. Jeeze, the weight of my responsibilities, as just plain John, being a/the Legos Man - for like the Family and everythings, get's me never forgetting, all we got are these words left dormant from the power they truly possess in the minds of the wise asses. And.. here I am. I'm a Talker of Words looking to make a break in the NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches who openly advocate tyranny and oppression through mass murder of ourselves as the innocent left targeted defenseless. Enemies of Jews everywhere, the Zionist cares not for facts on who's Life it destroys for stolen gain by lying. That's why they target Jews, for fear the Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so,
why not demand the arrests of those who
broke the truce, and murdered innocent people
indiscriminately, on plans more Jews would
die for cash profit? Profit paid for by
zionist amerika? - the false imprisoning
torture and rape center for Neocon
Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

/ / This has been a central theme of the war in
Gaza: not that hundreds of innocent people were
killed, not that over 5,000 were horribly injured
and not the sky-high human and monetary cost of
wrecking homes or razing infrastructure. \ \

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival
-in-brussels/

"We believe there were dozens of IRGC
personnel in the Gaza Strip during the
war," an Israeli source said. "Some were
killed; others went into hiding, and
others escaped."

See? the demon enemy of God speaks no
evidence as a TRAITOR to every Jew. A terrorist
nation that still steals humanitarian aid in
our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Where are the Americans asking for the
formal arrest of Bush for high treason?
Whoring for Alex Jones's contempt for REAL
Justice? The ignorance of all American
talk radio hosts speaks for itself. NO
knowledge on why acts of high treason, are
crimes against every American. The bushmob
doctored the NIE, and Alex doesn't want
Americans to know, because if they did,
they ask, why does Alex do everything he
can to escape those personally responsible
for 911, while then asking for money to
continue his fight against freedom in

America. Again how much money do we have to
pay Ron Paul or Alex Jones before they
will allow the knowledge of the Iraq war
against Human will is criminal? How much?

Obama! feel free to call
on me to help out with a plan for judicial
actions. That offer goes out to everyone in
Palestine, Canada or Britain too. Russia,
let's help out these fools by freely
communicating, what say you? Justice
for all is freedom to be. The Israeli cop
killers must be brought to justice for war
crimes. Those cops, were cops. And I,
am a man.

Alex Jones Rocks!

Now Alex has problems in "my" mind because I am
an ACTUAL genius, and he is generally, an idiot.
Today, he did one of his usual commentaries, however
this time, he was pretty honest with himself, and
his love for Ron Paul. Ron Paul sells incompetence,
and Alex corrected correctly!. that a.. sorry Ron
but these banksters know they're robbing us as
undefended blind men essentially. That's what I'm
talking about!! Look, Ron Paul can be a dumb Ass,
although, he's still not all that bad a guy. A Dumb
guy on things like economics sure, Justice, warfare,
Health Care, Social Security, ect. ect. but still.,
like a child learning of why the sky is funny
blue, isn't all that bad a guy really. He's
certainly not a war criminal, like Bush or
Rumsfeld are. Doing 911 then sanctioning torture.
While Neocons Champion sending illiterate American
teens for death as war criminal. Think about it.
Maybe he is..

-

ï¿½We have all these documents that are now
publicly available that prove that these
methods of interrogation were intentionally
ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy
like Willie Brand "the right" to RANDOMLY kidnap
men, women, or children, and torture them to
death for sadistic pleasure with his faggot
Capt, Christopher Beiring. (I think that's
how it's spelt). But anyway, this is the truth.
A bushite is a godless Zionist whore of Nazi

evil, an enemy of America, who wars YOUR Freedom
with criminal "excuses", for refusing to support
the arrest of those responsible for 911. A
TRAITOR, and could be wannabe rapist, robber, or
911 mastermind ringleader. Torture is illegal,
and warrants the death sentence, according to,
Reagan's "War Crimes Act". Some only suggest,
that this was why someone tried to kill him as
honorable. Death to the torturers of our
innocent families, torture they do without
apology as Zionist Military "Judges". Instead
today, where they get salaries paid in the
billions by the zionist giving nation of,
a-mirror-kay, echem, America. Johnny's America.
A nation where Justice will rule for the favors
of all treated equitably with or without you.
Honor me in company my friend. We have no rivals.

"they do not understand, the private banker
never covers the loan. Never does a private
banker reach into it's pocket to borrow US
to begin with - so as a consequence, the
bankers have just pocketed all the 'free'
loot for nothing, TRILLIONS, and are not
saying why should they help anyone else
up with charity?" Then went on to say, it
wasn't any of our business with what they
did with the money. (But for to cover criminal
fraud in the derivatives market, where
the true value of said commodities were
backed by ZERO capital. ZERO DOLLARS. WORTH
NOTHING. So, think about who's truly giving
it always here until Johnny, the man who
came out of nowhere, arrived to explain
everything in five or six minutes.

Support Johnny America for Coast to Coast
Radio Host!

-

Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoo
t-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen
for death by war crimes trial more like. Death to
the criminal zionist enemies of Humanity. Zionists who
falsely accuse without evidence to respect our rights,
like TV corporated Americans who treasonously LIE,
'bin Laden did 911'. Enemies of Freedom for our
Humanity.

[JEWISH!] Arrest warrant: Ehud Barak
http://www.wanted.org.il/ehud_barak_en.htm

/ / For violations of the Rome Statute
& 4th Geneva Convention \ \

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..
let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our
times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for
'lawless' grunts of ungodly action against
Life as we live it. Targeting school kids
deserves death sentences, don't you think this
value is what every soldier should hold proud
with Johnny in America? In Israel? In

Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

This post was passed to near everyone in our Secret
Service defending Obama. Let US demand Justice for
the Victims of 911, by warranting for the arrest of
every Neocon Nazi Zionist pirate of OUR Jewish faith
for Public trial on LYING for War Crimes against
our dying Humanity. War Crimes against God.

A ZIONIST LIAR'S TRUCE

/ / live images of an Israeli helicopter hovering
above the city and dropping its white phosphorous
bombs on the city \ \

Again, the Zionist deserves to die by public trial
today to defend the Jewish faith. Look at usenet.
These demonic enemies go, 'yeah, Hamas broke the
truce', they do it to kill you. To steal the lives

of innocent Peoples to profit off our deaths as
victim.

Zionists are Satanic Demon Liars of Satan

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed
Jews for money. They starve Jews in Israel
to attract more charitable aid they can use
elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of
the Synagogue to Satan!!

"We also need a massive overhaul in Our news channel
prioritizing, including to add censorship free, open line
public communications. Done to gain value in learning from
the art of conversations. We need still to appreciate the
values of a free society where Justice is above all, the

measure of our success to communicate openly."

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and
still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

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The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as
evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,
are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among

our brothers and sisters. I mean for Christ's sake Tom, THEY ADMIT to sadistically targeting our children for MURDER - as some kinda Satanic demon whore to Pure Evil - aka. Wanted War Criminals for Public Trial. Just as the Nazis were for similar outrages. Let's hope men of America are least half they were then, but we are suspecting, they will as of usual, balk as cowardly slaves to the private banker man ruling their minds, it's a, no wonder. Where is there that purpose striving for a greater future living in a just society? Where is the Christ in their Christianity? to financially support the arming of such unlawful Zionist killings in silence against Innocent Christians?

Free Radio International Broadcasts Alive!

Johnny Justice for Coast to Coast radio host.

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's verdict, if none is offered as in respect for yourself as worthy the title of free men? I ask as your self? Or are you as the cowards of most in the American military who refuse to speak for the arrest of those who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke the truce, and Israeli started this by stealing innocent peoples homes, then imprisoning ourselves, the victims, in a death camp for indiscriminate slaughter. While they continue to STEAL OUR CHARITY by breaking truces. What is it that YOU can't picture?

"The view from the other side, that the Qassams are a retaliation for the siege that starves the one and a half million inhabitants of the Gaza

Strip, [a prison death camp,] was not mentioned
at all."

Masada legend galvanises Israel
http://news.bbc.co.uk/2/hi/middle_east/7830416.stm

/ / they committed collective suicide - men killing
their own families, afterwards each other, until
one [evil zionist liar] remained to kill himself. \ \

ISRAELI IS A THIEF WHO CAN'T SPEAK OPENLY IN
DEFENSE OF OURSELVES IN OTHER WORDS? That is
right. They, as documented criminal, lose
every debate personally since before the dawn of
Civilization because their position is clearly
unsound. They are criminals who murder People
in hate for a freed Humanity. They OFFICIALLY
steal Peoples homes in that country didn't you
know they proudly proclaim it so? And steal
humanitarian aid from starving children.
Targeted to murder children specifically as
publicly confessed, 'it is Hamas WE blame',
not them as demonic child murderers. Hideously
evil as ungodly sadistic savages. Enemies of
YOU, enemies of them, and enemies of me, the
King of Jews Christ fellow from beyond the
grave. They are so evil to God and Man,
they tarnish everyone of US to not win justice
sooner by blaming the actual bad guys. Justice
is Freedom.

/ / Those white phosphorus shells used on the
Gazans are made in the USA according to Jane's
Defense. \ \

Again, these peoples are not Jews. Being
Jewish is a religion. These thieves of God
are Satanic in their LIES to betray the
common trust in our words, that bind all
worlds to victory, called freedom universal.
Even tales of the Devil have him keep his word,
with verses specifically condemning the self
to damnation for targeting the innocent for
death. God's the Word. Every word inside a
fool's paradise. Including the periods. Not as
like, I'm playing a word game, but that it in
wonder, is all strangely here. Example: The
Universe as it has existed always, is not
separate from our 'pauses', or faulty drawn
conclusions. The universe, in one sense, was
as good as anytime, created 6000 years ago.
AS TOO 50 billion. You say, impossible, I

say no, study quantum physics, and know, I
live this.. our existence is not scientifically
separate from the timeless nature of
consciousness, proven as not only theoretical,
but actual. That is a first step at developing
a REAL relationship with the living Universe
if you want to as like an artist does - that
TOO! can be just as thought static in it's
orderly constructions for Atheists. (An
Atheist is still mostly a fool here however.)
Overall, for any, it's sorta simple: Life has
left YOU in charge of YOUR fate. Now, do well
to make something of this being as eternal Life
reaching for balance, as your body does, and
good cops do when bringing the bushmobsters to
Justice. By Israeli calling for more murder
against the innocent of your mind as racists
and bigots they are openly, is still shadows
of YOUR mind, YOUR WORLD.. get it, got it? God
is in genius to set Life as this, as like,
nowhere existing, but for as yourself within.
Will you speak out for the Justice denied
Humanity?, or not you? Atheists can be Just
too!, but generally lose it on not
understanding the intelligence of order is
way beyond what they dream up with
assumptions. All anyone has to do is ask
themselves, who do you mean "God"? Atheists
are ridiculous!, but, to each his or her
own, we are on a path here, believe what
you want to believe. This is not a faith
initiative I'm bringing by keeping this real,
I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder
Jews around the world for stolen money is
seriously evil as criminal. What do you think?
Let US have a open line discussion on this
indivisible matter of rights to all as equals
before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM"
we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

ï¿½Main actions: Israel targets hospitals, United
Nations premises, Press offices, theaters and densely

populated buildings in west of Gaza. Additionally,
people are being used as human shieldsï¿½

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed
Jews by breaking truces with a prison death camp,
cause look at all the free American Welfare money
we can steal through kicking-back AIPAC members in
Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line
calls on the war crime enemy propagandist,
The Chorus Radio Network. CJOB STEALS millions
from Manitoba each year, and refuses all calls
for honesty in governing. They are actual
CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal
who will be going to prison, is the only person
on Earth that has publicly okayed Israeli Nazi
to target murder Christian school girls. Canada,
join me in demanding Harper's Public trial as a
war criminal. Prison for Harper who took a
honorable soldier who stated he refused to commit
war crimes against innocent civilians, and placed
him without trial in prison. Without warrant for
arrest. Harper, the Nazi Appeaser, is a War
Criminal standing against the Queen.

"Or is this another, popular amerikan past time,
of, who cares for the facts, we are at war with
God and Christ now?" Die bushite die Christ always
says against lawless torturers as mass murdering
thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest
of the Judge and prosecutor for being openly
evil demons, as TRUE enemies to freedom in
America. But guess what? Americans will refuse
to even phone Alex Jones, or George Noory
to be hung up on. Just refuse as brain dead

zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic
of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?
Like multi-millionaire Ron Paul, who gave the
fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the faggot owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty
International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting
to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.
They will rob and kill US all my INNOCENT friends

as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

Google have attacked US again as Evil doers..
They have again destroyed my writing with war
criminal intent to deny these truths as men they
could never face me, because they are not. They
STEAL our voices.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil
as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unb
alanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the
days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews
like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the
eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was
137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying

freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the
free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for

senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

-

I Want My Bailout Money by Michael Adams the Health Ranger
http://www.youtube.com/watch?v=dnT21hmlT4o

Breakdown Dead Ahead
http://www.youtube.com/watch?v=yFCnVC2C8As&feature=related

-

Simple Common Sense for Mankind

/ / Israel has admitted HAMAS kept the cease
fire; and that Israel broke it, then unleashed a
total starvation blockade on Gaza followed by
flaming death from the sky aimed at schools,
hospitals, ambulances, and children, and you
dare call the people opposed to such barbarity
a "mob?" \ \

Zionists are evil people who pretend they
are honest, when lying directly to everyone.
Blitzer reports Hammas broke the truce, he
is lying to continue the murder of innocent
peoples. Understand: Israeli Nazi state they
will continue to murder our innocent Humanity
until the rockets stop falling on Jews. Yet,
they broke the truce, and murder Jews routinely
with reckless abandon. Jews from the Bible as
of "nigger" Ethiopian, are what the Zionist
hate when warring GOD for apartheid, apartheid
that is Humanity in Gaza. A zionist is a war
criminal who speaks not against the neocon,
but against Innocent Humanity as YOUR enemy.

Livni: Gaza truce would give Hamas legitimacy

As they always do because they are dishonorable
murderous nazi thieves of God as Just cause is.
I am, and YOU are, you just maybe don't know it
yet, or if ever. A zionist serves Satan to escape
the neocon terrorists from their ungodly crimes
on 911.

http://desertpeace.wordpress.com/2009/01/12/gazatoon-of-the-day-blaming-the-victim/

Ron Paul:
US Will Be Rightly Blamed for Israeli Killings
http://www.youtube.com/watch?v=6C756NOPyDA

Not the Nazi Israeli?

The guilty party are those who advocate these
mass murderers of innocent peoples with
deliberate lies, like from Blitzer. Blitzer
will be tried, and executed a war criminal
for stating Hamas broke the truce., Where,
only two minutes earlier, he learned, that
it was his Nazi partners. DEATH SENTENCE.
It was on TV. BUT SEE? Ron Paul, the Libertarian,
ain't going to be honest here. He'll lie cheat
and steal Humanity's voice for Justice - like
he did with OUR money. A typical Libertarian
like Alex Jones who wants to blame "socialists",
"Liberals", aka, all of innocent America.
Blitzer is war criminal, who makes his own
discussions. As is Ron. What an enemy to not
mention the truce. THINK: IT IS THE ISSUE. But
Ron plays the dummy to kill more with contempt
for Freedom. Ron Paul, the bigot, asked,
'should we be doing this'? SEE? it's not first
degree mass murders, no, according to Ron Paul,
it's argumentative that indiscriminate mass
killing is a good thing really. Remember,
Ron Paul does not support arresting those
who committed mass murder on 911 either.
Or those who STOLE TRILLIONS. Or lawless Bush,
the ACTUAL AntiChrist enemy of God. Ron Paul
will watch America die for a stolen dollar.
And Alex Jones will refuse all calls to label
him good guy like himself warring order
to our universe for it.

Israel is [NOT?] responsible for these childrens death
http://uk.youtube.com/watch?v=Y9PIZQqIep4&feature=email

Ron Paul "When we pick sides, we make it worse"

He also took our millions donated for freedom
fighting away for his family, but not our own
as dying innocent victims giving. Pick a side.

Remember: Sadistic authoritarian George Noory
is a very real DEMON of Satan, who again,
openly tells US, he wants to murder our
species as the innocent forsaken, and Alex
Jones doesn't hear a problem with that
either. Love the bushite blindly, and
they'll kill US for a dollar sukka.

Alex Jones is like the retarded brother we
can't help but love because we're human. He
is still retarded. And George Noory is still
seriously evil as a traitor to the cause of
Freedom in America. And Ron Paul is still
slamming Ron Paul.

Ron Paul "Israel can not act without
Washington's approval"

So, it is Ron's fault then by not mentioning
the truce?, or as that, innocent People are being
indiscriminately murdered in a death camp that
he figures is argumentative? that innocent
People are dying as targeted for mass genocide?
Or is it the Ron who states YOU are to blame
instead of himself for being there, not saying
anything? HEY RON! Can you hear me now!

-

Contribute to our rise for the popular will

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they STEAL OUR
CHARITY. What is it that YOU can't picture?

Hi. My name is King Johnny.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

-

/ / The targeting of civilians, whether
by Hamas or Israel, is a war crime. \ \

They are targeted by Obama who suggests
there is an argument to be made here. There
isn't. Nazi Israeli DEMON LIARS broke the
truce to kill Jews for money. They are godless
enemies of Humanity. So it isn't that we are
pro-Palestinian, it is that we are pro-Human.
Zionists DESERVE to die, before US, the innocent,
they target for murder for stolen cash gain.
Like Obama has promised to do for AIPAC. But
what about the rest of US 6 billion plus Obama?
Who is it of US innocent folks do you wish to
MURDER, or torture next as a Zionist war criminal

for Satan Obama? Torturing kids is popular in
Israel, tell US Obama, which American father will
have his children tortured, or murdered
sadistically by yourself as a whore for Nazi
Israeli? tell us, we're not waiting.

The Chosen Bad Example

Zionists Destroy Our Homes as Satanic
http://www.youtube.com/watch?v=mo2HW4T7wK4&feature=related

When I see the women and her child, left outside
while they sadistically destroy her meager gains,
I grow weary with ourselves for not speaking right.
Nazi Israeli are committed to deny US our God given
rights as Innocent persons to speak freely for Justice
realized. All because they STEAL our Lives for monetary
gain. It is our reality, give it or take it, YOU LOSE.

Then.. Hammurabi founded Civilization.

I go concerned for any hesitations of condemnation by
Obama. It's like, he's talking some jive about
how now he'll NOT let the words of Hamas reach
his ears. Being against war criminals, doesn't make
you pro-Hamas, necessarily, it means your against
war crimes to defend the lives of ourselves respected.
Remember: He told US earlier during the campaign that
he wouldn't fear speaking to anyone, Hamas especially,
because he was confident he could win the discussion on
Liberty, by principles that unite all free men. Now,
he has promised the FBI's Most Wanted AIPAC, he will
pretend to not hear any calls for fairness as all
parties united by common cause. Johnny Who? Where did
you go Obama? You were here, then.. pooof! you
vanished into the loving shackles of convicted/ing
criminals is a mass, "WE ARE TRAITORS TO JUST CAUSE"
organized war crime outfit, dedicated to deceiving the
Public by lying. I am not Lying. I'm not saying I hold
his associations as a measure of himself, I am concerned
with him stating, he will not hear our cries for Justice,
as then AIPAC cheered. I was as freaked out about it as
you maybe yourself now, believing it as possible. Check it
out for yourself, and wonder, just "who" is this person
they tell us they're are going to take for as dying fools?
I mean look at what happened to what's his name, when he
sided similarly the same in error as hugely criminal? Come
on be honest with us son, "Are you on drugs?". Maybe he's
just been stressed with all of everything he is heaped
to follow on, NOT to know by Blitzer, that Israeli broke
the truce to kill more Jews for money, and, also STEAL
innocent Peoples Homes while saying, "they are God's

Chosen". Yeah, chosen for, "The Bad Example", of how
Jews are left undefended by these grave robbing war
criminal nazi forces. As the King of Jews, I call for
Public War Crimes trials of the entire bushmob as
terrorists, and their supporters for lawless tyranny.

People are Coming to Town. Justice for All Coast
to Coast radio broadcasts all, until we have secured
the neocons in a prison cell awaiting the treason trials.

We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

Nazi Israeli STEAL Peoples Homes without
apology, as a function of their SATANIC
government, while collectively bombing the
INNOCENT victims who die because of it.

Gaza 2009 - Operation Cast Lead
http://www.youtube.com/watch?v=hFEiOfLUfzY

Again, they are Satanic here because
they THREAT to tell you, yeah, Zionists
are casting the leads for the real mass
murder scenes - Justice denied Humanity.
God doesn't exist to defend yourselves
from war criminals for Satan.

War crimes trials with public executions
will commence against ever GUILTY zionist
living to lie that Hamas broke the truce,
that Georgia was attacked without provocation,
(again, CNN are not 'accidentally' conning
US here). And trials for every last living
bushite bomber, rapist, and torturer -
death to the bushite, the true traitors who
war against freedom for America, traitors who
war Innocent Humanity for the escape of the
neocon zionists.

-

Both parties cheerlead loudly for Israel's war Against Humanity
http://www.salon.com/opinion/greenwald/2009/01/08/israel/index.html

Death sentences MUST be willed by Christians for war crimes.
Death to the bushite, death to the enemies of God and Man.

-

For the Great Truths. We Stand United

/ / This option is also regarded
as a non-runner as the US would certainly veto that
suggestion. \ \

No no no no. What you do is investigate who this
the "US" person is as the GUILTY party my friends.
The facts have spoken for ourselves without contention.
And while we're at it, try to figure who that "Army
says.." person is too, we need to know who these
traitors are who hide their names backing war crimes
to continue. The Enemies of Civility, they are
enemies of US all my innocent friends, enemies of US
all.

white phosphorus shells on Gaza
http://www.youtube.com/watch?v=HPY2M6IxDRA&feature=related
listen to the inflection of voice near the end of this..
the mind of a delinquent 7 or 8 year old.. This phenomenon
is pervasive, and illustrates some cognizant short coming in
Calcium or Zinc somethings. However, IT IS THERE. Normally, as
an Expert on Psychiatry, I dismiss the whole notion of
Psychiatry as I intimately know it as pure bunk wacky,
however the study of something here is needed if we're
ever going to convince ourselves dying indiscriminately
this way sucks. As the innocent for profit we pay for,
with lies sold without Public defense of mass murdering
demon traitors to the cause of US falling victims. God
says their Satanic, I just say they are criminals. War
criminals easily convicted for murdering our loved families.
They have no remorse for all that have been murdered
already.. Livini should be on her knees begging our
forgiveness, but she's not because she couldn't care
less for any Jews, especially those she don't have
imprisoned under threat in Israeli 'society'.

It's a 'bad' thing. nnNo.

Israel bomb attack Gaza Civils Palestinians 27/12/2008 launches
missile attacks on 27 Dec 08
http://www.youtube.com/watch?v=tQLDBujnwEE&feature=related

This was what Israeli did as a legitimate murder
scene, committed after the Nazi Israeli Jew HATERS
broke the truce. More dead Jews, more money to be
rich with. and we'll blame it on that God nonsense.
We must demand war crimes trials from Obama, and
everyone else down there who is appalled at this
indiscriminate mass murder continuing in your name.
We need arrests of Zionist infiltrators within
the American military who have been shipping
weapons to nazi Israeli to murder more defenseless
innocent People as targeted. Obama must demand
death sentences against these ungodly Zionist

vermins for treason, warranting execution for the
war crimes of accessory to mass murder, or genocide.
For the Great Truths. We Stand United.

-

Here on a Mission

/ / after dropping leaflets warning residents it was
about to "escalate" its offensive against Hamas. \ \

SEE! This is AFTER fire bombing the whole community.
Satanic evil enemies of Life. Who admit to targeting
any one who has ever so much as swept our streets,
warranting bombs dropped on their Block(s). SEE! they
are ENEMIES OF EVERYONE. EVERY LAST ONE OF US.
INCLUDING GOD.

Riddle me Dumb

Hamas Workers and/or Troops? Out hiding in the mountains
of Afghanistan you mean right? Satanic enemies of all
Humanity I tell you. The most evil nazi sons-of-bitches
who openly advocate tyranny and oppression through mass
murder of ourselves as the innocent left targeted
defenseless. Enemies of Jews everywhere, the Zionist
cares not for facts on who's Life it destroys for stolen
gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.
It's a prison death camp, brought about by Israeli STEALING
OUR Homes as ungodly thieves. Thieves who leave a Jew
to starve to death in a garbage dump because, it'll
attract more charitable aid The Zionist can use
elsewhere. It's not a Jewish thing, it's a criminal
matter. They STEAL innocent Peoples Homes in that
country. God's Country? God would will such criminal
offense? Which God? Not the God of Abraham, nor by
the teachings of Hillel, Christ, Mohammad, or
Confusion? So which absent God do you speak where WE
can't speak as ourselves openly for Just Cause?
Cat got your tongue? How come your not saying anything?
The Israeli Zionist ENEMY wants US ALL in slave
labor prison death camps silenced away that's why!

Israeli War Crimes
http://bothwell.typepad.com/whos_your_nanny/2009/01/israeli-war-crimes.html

Well, maybe I'm wronger on Ron Paul than I needed to.
Hey, don't you EVER forget, I am a man also. We need
to meet on common grounds, to demand the start of
formal arrests for the bushmob crimes of 911, Iraq,
Afghanistan, South Osettia, and Palestine, as a group
together united by agreement for this one cause, and

then... we can later argue about how your ideas are
better than mine because I actually know of which
your speaking.. Hey! you could call me Daddio if you
wanted! To the telephones we go.

-

Israeli are attacking prisoners held criminally
in their own Death Camps!! GET ALEX JONES ON THIS!

Hmm... why wouldn't Alex? to support his fictions
over Our Rights to Live Free perhaps? A Hero adapting
to the deaths scene?, or, a Bush whore committed to
enslaving Humanity, all so he can say, he told US so.
Big hero or big hero. Your NOT powerless to his vision
of complete control over information. He refuses 911
info, Iraq war info, Israeli info. All so he doesn't
have to look the fool, while Humanity dies with his
insults against our wills to make something better
of ourselves. Justice is what I will. Masturbate on
your own time Mr. Alex Jones.

If he states again about how he knows everything,
and is always right, and those that criticize
him on ANYTHING are delusional, it's going about to
make everyone further sick with this obscene take on
what life means as Alex takes it. If I truly state
two nickels make a dime, does that mean therefor
they make a quarter also? If I say so like Alex
would? He is an idiot. Truly. George Noory figures
Hamas broke the truce, and that the Mideast solution
is that Jews should be separated with special rights,
as oppressors over the freedom of every Palestinian
Prisoner, and what's Alex Jones gonna say about
his 'truth telling freedom fighter' George to actual
'lame ass evil nazi traitor' George?, to YOU about
how George is just trying to murder millions of
helpless people as an offer for the final solution?
We can expect Alex now to claim, Zionists should
have special rights over Jews, all to maintain
his FICTIONS on Noory being anything but the
monster to Humanity he is. Just because Noory
doesn't growl when talking about murdering all
children in around the age of 15, or against
soldiers who refuse criminal orders, does still
make him a true fascist nazi enemy laughing at
your murderers escaping to live freedom in
our dying forsaken worlds. The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know

these FACTS that demands arrests of the culprits responsible for high treason against Johnny's America. Now, who's with yourself. I am! I am! I am!

Alex Jones doesn't know squat of Social Security, but pretends he does, like Ron Paul does when speaking of the Federal Reserve, Health Care, IMF, World Bank blahblahblah.. I mean even the expert of experts Alex has on near twice a week, EVERY WEEK, to talk all about how the Illuminati are doing everything,(give me your money now for whatever), DOESN'T SAY TO KNOW, it was Chris Cox who changed Investment Banker rules, to cover instead one tenth of WORLD INCOME loans, to one twentieth. MORE THAN DOUBLING THE ENTIRE GLOBAL MARKET FOR LOOTING WITH HIS SIGNATURE! (And. that isn't even a fifth of the TRUE trillions dollar fraud story.!) Now, granted, I wouldn't expect one tenth of one percent of America to have even a distant clue of which I am speaking, but importantly, Alex's expert of experts has never mentioned it. EVER. Why? He don't give a fuck, but how much money he can get you to give him for investing in things that are un-important to our struggles, but for the fact, he states, you'll get free money for nothing!! OUR ACTUAL PROBLEM. It reminds me of those Ron Paul dollars... where Ron'll fix everything, cause we, as a private company, are going to make YOUR money instead... holy fuk mon.. Talk about the kettle calling American racists. Thank God the FBI stepped in. (The answer unfortunately is not nowhere as easy as Alex would blindly lead you) - again, so I guess it will be, Americans were just too far gone as illiterate chauvinists, who cared too little for your freedom as themselves degenerating. Why? To battle tyranny they knew not Justice wins the day, and blamed innocent groups gathered wherever, instead of following the crime scene leads at the real murder scenes - like was once done on TV and at the Movies. But even that was too far above their doped down heads, to raise their finger to dial a phone number.

How about stating "A lawless bushite enemy wars America as a traitor, to escape the neocons from the crimes of 911."

Then Alex states the head of GCN is giving out gold at less than it's value as a special treat, every second or third week. Below wholesale. Now, really think this thru. Do you think Alex is trying to con you here? you bet. That is the Gold Racket. Diamonds are another thing - where I've personally seen, about a decade ago, a huge press that makes Diamonds

out of coal. Swear to God it's true. Costs to make diamonds are pennies to the thousands paid to Zionists who live in Israel calling for the murder of all innocent Peoples. Where is the rich Zionist, grave robbing Jew hater to demand Justice for our times? Where? Pressing coal into diamonds, while advocating the murder of our entire Human species. THEY WANT TO KILL GOD AS SATANIC ENEMIES OF LIFE. While I am last known to Life's enemies as Jesus Christ, the Zionist's end every time. I'll have brought more Zionists to their rightful dooms, than any other, of any time, anywhere. I HATE Zionist bushite LIARS to death, all because I Love Humanity too much, to watch US die undefended as the innocent forsaken. They can change their evil ways, but till now, often not, benefiting off our suffering as war criminals who simply lie as demons to steal our Human values. Let's change this for our betterments. I mean the Halo is a dead give away..

The head of GCN has a son warring God to rape American women as lawless enemy in Iraq for the Neocon - again NEVER mentioned as something worth fighting against for Freedom in America - soldiers are suppose to REFUSE criminal orders - but not when Alex is at the mike. He will never mention the Bushmob doctoring the NIE to con America for death as exampled, because it doesn't fit his fictions, where all the bad guys escape because they are geniuses headed by secrets so powerful, nobody can ever know'em, except Alex. He tells us near every day, he knows everything already, and is never wrong, therefore you can't criticize him. Bullshit. It's like he wants to be wise like Johnny Gawd is, without doing anything like studying for a test where the teacher actually does know the issues. He told US today, the British came up with concentration camps, from the Indians - who spent all their lives murdering themselves. The British 'invented' false imprisonment? The British came up with the, Jews Killed Jesus? The British invented Pope Gregory VII? I suppose Alex has never heard of Ghettos. SEE? he just pulls shit out of his ass, and calls it like it's truly pure gold you'd wanna buy. Those, like your typical American have no clues, so they figure, Life must be sorta so that History is all one big Alex Jones NWO cartoon. What? that the NWO did 911, and everything else that use to instead, require criminal investigations to nab the actual evil doers? Alex Jones IS the NWO he tells US all we should be concerned about never stopping,

like it was in the DARK AGES. Justice Alex, why is
that hard for you as a "Conservative" to figure? Is
it because you are cowardly in the face of true
Liberty? Afraid that some People, on some Issues,
ACTUALLY know a great deal better than you could
even imagine presently? Don't like that do you?, where
you don't rule this Universe as a lawless tyrant
desperate to live in an illusion at the expense of
everyone else dying victims to censorship? Does he try
to find wise men or women? rarely. "Ron Paul [MUST]
leads our truth movement" - like, fuck off already
with the Ron Paul, The Truther, Bullshit Alex Jones.
1% is what YOU get on Social Security deposits - 1%.
And.. Bush stole 700 billion. 700. Billion. That's 700
BILLION. It's a "Trust" account. A "Trust" Account. It's
being held in "Trust" Alex. Ron Paul is asleep at the
wheel. As, so are the rest of all you other fools..
I want Justice, and I want it now for all the victims
of 911. Americans be damned, we want Justice, and We
want it Now.

In Texas, child rapists are given the right to
freely move about without fear that Texans will stand
as armed Men in defense of their very own offspring.
And Alex wants this for the rest of America. That some
how to own a gun, means an American would kill a cop
who beat a women near to death for pleasures that
he could never be Publicly arrested for, as a
sadistically evil nazi bushite fuck. Look, if YOU DID
kill that particular DEMON COP after the Chief
refused to arrest him, you couldn't possibly go to
jail in Johnny's America, because the truth would win
out in a fair verdict. And REAL cops would honor you
with great big, thank you. Nothing worse than a
cop (or bushite grunter) who believes the Law doesn't
apply to him while he drives drunk, tazers someone for
nothing, abuses Women, or kids, to sell drugs, or
kills good cops, who are good men. (Like mercs do in
Iraq officially for Rumsfeld's P2OG. Coming to an
American city near you!)

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

"Rice says it is 'hard' for Israel to spare civilians in Gaza"

We KNOW they are ONLY targeting innocent People,
the ungodly zionist Satanic enemies say so..

"Israel Rejected Hamas Cease-Fire Offer in December"

Livni has declared her country "is not going to show restraint"

"Her" country?

It's like she's admitting here, that they DO NOT
target the IDF's Hamas, but only our innocent lives
as a threat to LIFE and GOD. Remember: the Zionist
LIARS broke the truce.

THIS NAZI ZIONIST FUCK BREATHES THE AIR OF US
http://www.youtube.com/watch?v=lMxfEsooM5M&NR=1

/ / So, Hamas decides it's time to end the
cease fire and has begun shelling Israel again. \ \

This guy even sounds like the Satanic false
accusing enemy of God he is. Let US, as Humanity,
hunt these real devils down, try them, and have
them executed publicly for the benefit of God and
Man. Understand: this REAL DEMON knows he's lying,
no living man on Earth could spew the vile lies he
does to excuse indiscriminate mass murder, or starvation,
as this Zionist enemy of life sells to STEAL Your
HOME, your Family, YOUR LIFE. An open enemy of God
trying to STEAL the Title of Jew from Christ. EVIL
ENEMY OF LIFE. See, when a bushite dies, you served
Life well in defending their next INNOCENT target.
BILL HIM FOR STATING ISRAEL WAS STRUCK THOUSANDS OF
TIMES. BILL HIM FOR STATING HAMAS BROKE THE TRUCE.
BILL HIM FOR STATING bin Laden DID 911. BILL ANY
Zionist FOR THIS TREASONOUS LIE. Why God asks? Because
there isn't any evidence to support that Satanic lie.
According to the FBI. And according to God, Zionists
are not Jews, but of Satan as enemies of every life
form in this Galaxy, Hunt him down, and bill him
today for the love of God. You can 'hear' it in his
voice.. how he lies TO YOU as a DEMON of a Hatred
for Truth and Humanity. Facts, that are easily
available, are not what he works to mislead others,
others he hates, and wishes to murder for as ungodly
sadistic pleasures as YOUR enemy. Bill him under
American law for being pro-torture too while we're
at it. Death to bushite, death to the murdering
enemies of God's Love for Mankind, and enemies of
TRUE Justice for Americans. The fuking demon enemy
lies to you, as a con to STEAL your life, or just
as soon, the life of another innocent other. Now,
what are you going to do about it? Except his lies
as exceptable, as he tries his hardest blatantly
LYING to kill God and Justice in our Worlds? Not
in mine, but perhaps Yours.

' In Civil-Contempt Cases, Jail Time Can
Stretch On for Years for Americans, without Ever
seeing a day in Court. '

Where are the arrests?, then firing squads for
the Judges who 'judged' such criminality against
freedom for US, the Peoples in America?

' Where Did Taxpayer Money Go? Panel Slams Treasury
[FOR STILL REFUSING TO SAY] '

Where are the arrests?, they stole eight trillion
and counting.. And Congress 'slams' them for
disappearing OUR MONEY. Slams with what?, a,
don't do that again please butt sqeeze? It should
be massive slammer time, with a return of all
STOLEN monies.

' THEREFORE, those pro-Israel politicians in Congress
won their seats in part using stolen money. '

Where are the arrests? Amerikan bushite nazi grunts
are assisting in the mass murder of innocent Christians
in Palestine. War crimes demanding death sentences. It
isn't an argument that can be turned around. Nazi Israeli
STEAL Peoples Homes without apology, as a function of
their SATANIC government, while colectively bombing the
INNOCENT victims who die because of it. It's a prison
camp! they are denied water, food, shelter.. since four
or five truces over that they've broken, every one. These
are Satanic enemies, willing War Crimes against God,
a God NOT loved by zionist American Nazis. And a Son
as powerful as the four winds, ridiculed by Zionists,
and American know nothings, for the continued debasement
of YOUR soul worth here dying.

Israel Attacks Iran News Station

Why does not Iran DEMAND arrests, and death sentences
for these blatant war crimes against Humanity committed
by Amerikan Nazi Israeli Zionists? Along with the
perpetrators of 911? WHYWHYWHYWHY. Russians! Can you
help US out?

-

THE NAZIS SHELLED THE HOUSE WHERE THEY HELD
INNOCENT CHRISTIAN PRISONERS
http://uruknet.info/?p=m50596&hd=&size=1&l=e

Rise up for Justice American Christian, or
die innocent victim the Son of God does say.

-

Pictures of Alex Jones masturbating
"we were right about it all."

It's the NWO! The Illuminati! Not Bush, Cheney, Neocons Gone Wild, or any of many other REAL criminals, for the war criminals are just puppets to his EVIL fictions. Forget about Bush escaping.. Socialists who design traffic lights, and Liberals who will to share fairly are Alex's enemy, because he's fearful the FACTS would escape his denouncements against truth tellers. George Noory, one of the most despicable individuals on the face of our great Earth - is exactly the kinda guy he wants returned to send his wannabe Patriots nowhere but to die. What about Justice America? The bushmob doctored the NIE. TREASON. There is video of iron flowing like water from the towers, seconds prior to the collapse. Alex ain't there to help US, for that is where TRUE Patriots fight for real Justice. When WE phone with indisputable facts, on Ron Paul the bush whore sell-out for example, he lies to all (GOD), then hangs up on US. Is that the kinda freedom you think the Founding Fathers had in mind to give Your rights to speak for Alex who blames anyone but the criminals directly responsible for your funeral? The private banker never covers our loans, so why give them trillions without questions offered without answered as, never mentioned by the guy who is 'right all along on everything under the sun', and.. he 'rules the Ocean of truth' too don't you know YOU have a steak going all rotten to hell here also? You'd think Alex would take our call just for the challenge on where we stand? I'm free!

He is not. And George Noory tells us openly, he's into killing innocent kids for profit. George's profit is that apparently, by murdering all children in around the age of 15, will stop them from getting a clue at anytime in the future, to take him out as an ENEMY of EVERYONE for censoring our cries for Justice. Why is it that Alex would invite obstructionist, Steve Quail, or Alan Watt, on to lead you nowhere while they jerk off, but where we gotta go to actually defend ourselves? Steve has been on with Noory more than a hundred times, and, we'd figure, Alex will soon be delving into the Alien questions also. Answerable by me in seconds, but ahhh.. like Noory, doesn't want the truth of such a subject uttered,

just endless streams of illiterate bushite dumfuk
losers sucking on each other. While they wrest
from US the wonder; just why we can't stop
criminals from robbing ourselves, while murdering
our families? Alex wants to blame the unstoppable
NWO, while I, want to blame those actually
responsible, like Bush and the proven treasonous,
Neocon terorist liars who are pro-torture.
With arrest warrants. All of them. I'll do it for
Reagan's, War Crimes Act, as an act of respect
for my Great America, that's isn't always been
dying dead wrong under the leaderships of
criminals.

Israel hits Gaza after UN truce resolution

/ / AP Israel and Hamas responded to a UN peace
demand by hammering away at each other with bombs \ \

The IDF's Hamas is hammering away with what at who?
Is the AP referring to the tin can rockets that
travel usually several miles, but in one case,
22 miles? To kill a Jew standing outside in his
yard, thinking on how he would defeat true evil in
his time? Tin can rockets that contain no explosive
charge? Have no mistake, if it hits you in the head,
your dead, but really, what do you think the odds
are on that? E=mcï¿½. Or is this another, amerikan
past time, of, who cares for the facts, we are at
war with God and Christ now? Joe is an American Zionist
"Plumber", who has amassed a multi-million dollar
fortune in the competitive industry by shit eating.
Every bushite death is a mercy given to God in defense
of all that is right and Just in this Universe. A
lawless bushite enemy wars America as a traitor to
escape the neocons from the crimes of 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Now or Never - One Peoples Rise to Power

J. Wizard "The fact that Bush gave you zero evidence can not be
denied"

http://cleveland.indymedia.org/uploads/2008/03/now-or-never.mp3
http://baltimore.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/03/now-or-never.mp3
http://newmexico.indymedia.org/uploads/2008/03/now-or-never.mp3
https://israel.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://www.indybay.org/uploads/2008/03/17/now-or-never.mp3
http://la.indymedia.org/uploads/2008/03/now-or-never.mp3

http://neworleans.media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://indymedia.nl/media/2008/03//50997.mp3
http://newjersey.indymedia.org/media/2008/03//20791.mp3
http://boston.indymedia.org/usermedia/audio/11/Now-or-Never.mp3
http://houston.indymedia.org/uploads/2008/02/now-or-never.mp3
http://imctj.espora.org/uploads/2008/02/now-or-never.mp3
http://argentina.indymedia.org/uploads/2008/03/now-or-never.mp3
http://canarias.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://istanbul.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indymedia.ie/attachments/feb2008/nowornever.mp3
http://media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://www.stlimc.org/usermedia/audio/10/now-or-never.mp3
http://peru.indymedia.org/uploads/2008/02/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indybay.org/uploads/2008/02/13/now-or-never.mp3
http://imctj.espora.org/uploads/2008/03/now-or-never.mp3

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Traitors to the Cause

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

UN: Israel Admits Claims About Attacked School Baseless

US military re-supplying Israel with ammunition through Greece

House and Senate Compete To See Who Can be Most Pro-Israel

This warrants the Death Sentence to Republicans
who have committed America to these war crimes
- DEATH SENTENCES. Christ DEMANDS these trials
to start tonight on America's Coast to Coast
radio program. It's called first degree mass
murder.

Israel broke the truce on Nov. 4th, yet state they
will continue to murder Humanity indiscriminately
until a truce can be found that they will break,
as always, Being the Satanic enemies of God and Man
according to the Bible:

The Bible "I know the blasphemy of them which say
they are Jews, and are not, but are the synagogue of
Satan."

/ / UN Call for investigation into shelling of
Civilian shelter \ \

Investigate that evil does exist in the thieving
LIAR name of godless Zionism? The enemies of God
and Jews everywhere?

-

Freedom Granted by Americans for Neocon Liberators

"Americans are having their heads velcroed to chairs
and forced to take in nutritional supplements by a
tube forcibly inserted through their noses by US guards."

These are People not charged with any criminal
offense don't forget. Die bushite die you know is
what I recommend, as does Reagan. A dead bushite
means you've saved the life of their next victim,
an Innocent Human Being guilty of no crimes. The
war criminal enemy is the bushite, the Zionist,
the LIAR neocon traitor to Life as this Universe,
along with every dumfuk grunt who serves tyranny
for the bushmob at Guantanamo, Iraq, or Afghanistan.
It is a soldier's oath to obey lawful orders only,
but Cheney they don't take out with American Law -
how come? cowardly fascist nazi whores for Zionism's
evil as the ungodly that's why. Cowards dying for
the escape of the Neocons from the 911 scene as
reported publicly. - Vs. US. That's we whoever
you are.

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever. The neoCON LIARS are the LIARS conning
you here on our TVs and Radio dramas, in where, they
don't want to openly take our public calls for real
Justice. Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression. So,
them being "puppets" is even all the reason more to
insist in their capture for trial by Jury. A Public
Jury of our Peers. Now, who's in with You? You can
count me in. and I bet willed to action, we will find
others to be something of ourselves too.. Justice
and Liberty for All. Equal rights given is what true
freedom is as measured. Translated from the 'Alien'
dialectic to Amereeze jank vibe; where is the fucking
evidence here Neocon traitors who false accuse to lead
us off the straight and narrow? It leads to Bush,
Cheney, Rumsfeld, and Condi that's why I figure, you
figure, they figure, we figure, so... what are WE
going to do about this sacrificing for godless tyranny
further then as unrepresented?

Gaza Mosque Struck as Targeted by Israel Air Force 1 Jan. 2009
(Why so you may wonder they've had this string going
now where a secondary something, then there! that proves
something absolutely apparently, without the intellect
to fairly judge anything, particularly themselves honestly
as dishonorable thieves and murderers, targeting prisoners
held hostage to their own camps. Death camps. Nazis are
they.

Humans for Coast to Coast Radio Hosts as Frequent
contributers to the mention of Justice by name. Your
Rights, Your Word, Your Future, Your Life, This World.
Join me in proclaiming victory over the enslavement
of Humanity, through Justice realized as practiced.

If Americans Knew What Israel Is Doing! VIDEO WAS CENSORED!
http://www.youtube.com/watch?v=ynWjYHP91gA&feature=channel

Views: 1,212,890

Israel Facts the Media Isn't Telling You
http://www.youtube.com/watch?v=QKq38COoTG8&feature=related

Views: 358,960

Maybe we know it, but we just don't know it yet?

-

Israel Attacks Jews,
Silence from Mainstream about Violation of Law
http://www.youtube.com/watch?v=K1kt8qi0M-M

They kill Jews for money. They bombed Jews in Lebanon
for money. They want to bomb the HUGE sacred Jewish
communities in Iran.. wonder why? Zionists are not
Jews, for Jews don't steal in God's good name. Nor
target innocent beings for stolen gains. A zionist is
a thief to life, and as such, needs to be formally
charged for their criminal offenses, given lawyers,
and upon a successful prosecution, rot in a prison
cell and/or pay restitutions. YES. why? so not another
innocent person must fall in their place as next
victim to a zionist's public commitment to lawless
tyranny for evil intentions.

Johnny for Coast to Coast Radio Host

-

Israel Phones 'Terrorists' Before they Bomb Homes
http://www.youtube.com/watch?v=K5wrwZlwAq8&feature=channel

Didn't the Nazis say something like, they weren't
there to take out Hamas directly? Well, after all,

it was founded by the Zionist IDF, so I guess that
must be why they target our children instead..

UN: "Israel knew they were bombing a school"
http://uk.youtube.com/watch?v=uWP0GU0wVSk

/ / The hospital, and other smaller hospitals and
clinics were previously shelled by the Israeli
warplanes and tanks, stressed Hassanein. He
also denied Israeli claims that medicine and
medical supplies had arrived to Gaza hospitals. \ \

The Zionist is a thief of Life as our enemy.

IDF VLOG UPDATE: IDF Hits Dozens of Hamas Terrorists
- Capt. Benjamin Rutland - 4 Jan. 2009
http://www.youtube.com/watch?v=q9Jt-pV5wuM&feature=related

This Zionist enemy of God speaks like a six year old.
"Hamas Terrorists", "4. Jan.", come on now, how evil
do you have to be to believe this ungodly demon sells
you righteousness. They STEAL our food. They are OUR
criminal enemies who torture innocent Peoples. A
godless criminal enemy who also steals Peoples Homes.
And drops millions of land mines to murder Jews
indiscriminately for decades. Commits war crime after
war crime against Humanity. Vile bile.

They killed our innocents, and unless we kill
theirs, they will go on killing ours.ï¿½

It is the crime of which they demand WE are outraged
against. Welcome to Humanity's suffering world due to
lacking communications skill. The term "they" are
referring to is YOU. Your innocent life Israeli
intend TO STEAL, TO MURDER, TO ROB YOU Your rights
here granted by God. These are ungodly acts of mass
murder, perpetrated by enemies of Life. They targeted
a UN Girl School for Christ's sakes. please fight back
by supporting my calls for open international dialog.
Justice must win our Freedoms back, for there is no
other lazy TV'ed ass, pop a pill to make it all go
away, plan 'b'. Look at me! I'm not crazhey! We can
handle this no prob.. I'm a perfect King for these
times of wonder and horror. equal rights are found
through open communications for a measured Justice
we do contain. Evil is the deceived disguised. And
i am a god... on a mission.. Ladies?

-

The Appropriate Response To Islamic Terror
http://revisionistreview.blogspot.com/2008/12/judaic-columnist-urges-kill-muslims.html

/ / an Orthodox Jewish Russian immigrant \ \

Let US never forget, the Zionists also would bomb
some locations, then later, drop the warnings
for the Jews to run for their lives. Didn't warn
them though if they get into a car or truck they would
be destroyed instantly by the Zionist flying the
America paid for Apache. I did a big show of shows
through that continued as, more 'un-resolved' crime
scenes perpetrated by the treasonous, neocon Zionist
terror merchants. It's like they think some dying
fools are going to keep going to save'em in the end
from ourselves as still suffering in Justice denied
as enslaving into ungodly tyranny eh? These Zionists
are not only the bad guys, but they're bad guys to
even the bad guys as there is no found honor among
murderous thieves. A Zionist will kill a Zionist for
a stolen nickel, as do bushites today. Hey! it's only
Your Life in the balance. Or are you one of those
who goes in America, it's okay, we're only murdering
innocent folks who don't live in Israel.

Doing what's right and just, or evil as dumb is
Your riddle. Get back to US on that.

We need People are Equals Power!

President and CEO of Shareware Earth Co.
King Johnny Wizard at your service me Lord.

-

/ / It is just unacceptable to apply two standards of
morality, one for Jews and another for non-Jews.
For if what Israel is doing in Gaza is right, as
Israel and her supporters maintain, then what the
Nazis did in Europe several decades ago must have
been right as well. And vice versa. \ \

The ungodly zionist enemies, are enemies of
God and Man. Don't think the NAZI Zionist like
Bolton doesn't know this, with his friends at
FoxNews.They WANT to rape, murder, and pillage
America all her freedoms for the bounties of
private banker frauds. The banker does not
ever cover our loans, we do. So, why give them
trillions of American worker waged dollars for
nothing?. THEY DON'T COVER LOANS. See? that is
what this war against God is all about. People
of Humanity just seem to truly hate a guy like
US as wise and Just. See, people hate US, because
they can't for their lives disagree with Facts.
Why won't YOU support these same rights and

champion our demands for open communications.
Johnny for Coast to Coast radio host.

US Again Stops UN Call for Gaza Truce

Who is this the "US" person?, and let's
put him to death with Bolton and Kalilazad
for the most serious of war crimes against
OUR Humanity. Remember, Bolton was NEVER
confirmed because, the Zionist could find
no man or woman to say a single kind thing
about him. FACT.

CNN: The Nazis Broke The Ceasefire!
http://www.youtube.com/watch?v=KntmpoRXFX4

Protest pictures from around the world (not on CNN)
http://www.rys2sense.com/anti-neocons/viewtopic.php?f=11&t=16496&start=0

Remember Israeli nazis to this day, insist as
DEMONIC LIARS, Hamas broke the truce - as Hamas
is responsible when they target school girls for
slaughter. They said the UN were secretly attacking
Jews, clearly a LIE as impossible to prove because
it didn't happen. But facts are the furthest thing
away from the godless false accuser Zionist con man
or demon witch LIAR like Livini. FoxNews calls the
demon witch a Jew! ANTISEMITES.

We can witness, Americans do not have the intellect
to understand what this means. See, LIAR Nazi Israeli
broke the truce to get killed Jews for money. A
regular fair for Nazi Israeli. Now, they state they
will continue to indiscriminately murder humanity
until the tin can rockets that travel miles stop
killing Jews who hate Zionists. But importantly,
it is Israel that wants Jews to die, so they can
make off as Satanic with our stolen values. Just
like the Bush family did with Hitler, that the
Nazi Nation has no probs working gun in hand to
wipe out Jews everywhere still to this day. Again,
Nazi Israeli MURDERED JEWS in Lebanon as targeted.
And leave Jews to starve to Death in Israel for
more charitable aid they can use elsewhere. Public
knowledge not disputed by any living soul on this
planet because, the Zionist government admits freely
to this. Israeli think being Satanic is worth it,
for all the money and lives they can steal as enemies
to Christ, Hillel, Mohammad, YOU, blahblahblah.

And, as demonic thieves, they steal homes from
innocent god loving folks. US. But see the McCainiac

HATES you as being a virtuous man or women, so they call for more indiscriminate carnage against Humanity, on failed hopes, that we as God are not going to come down to hunt them to the ends of this earth, try them, and have them executed for the war crimes of Torture, Rape, and mass murders committed for the neocons escape of 911.

Joe the Plumber to cover Gaza op

/ / Wurzelbacher says he'll spend 10 days covering the fighting and explaining why Israeli forces are mounting attacks against Hamas. \ \

Don't want an intellectual who might have a clue of what is transpiring with the forces of Satan, fuk, CNN'll likely hire him also. Don't you just hate this treasonous lying nazi demon? He has no journey man's license, never did, isn't a plumber, and doesn't have the millions of dollars he claimed he did to purchase a company that would have rolled over 250,000.00 a year for himself alone plumbing. Plumbers, as good as the job is, never generate that kind of money. Who cares though, right? A Nazi liar is what Zionist's want, and that is what America gets. TV'ed Americans couldn't care much less. Evil nazi McCainiac who's sworn existence, is to con teen soldiers for death to raise the fortunes on the un-elected Neocon bushmobsters now fancies himself a teacher on the struggles against evil. It's like that faggot at anotheruntoldstory.com, who's into murdering innocent Gays, while fucking his own brothers up the ass, who runs ads everyday at GCN, tells US now, all about how evil we all are for demanding Justice. How long do you think that'll run with the Alex Jones towners still raising no concerns? It's for the money as Ron Paul would say.. Again, it is to divide ourselves from true liberty, by demonizing the innocent on our radio and tv channels. Instead of Bush, Cheney, Rumsfeld, and Condi.

http://www.liveleak.com/view?i=ab0_1231290043

http://www.kuwaittimes.net/upload/img_pict/headline9637e7.jpg

Read of the bushite in my America who call this work of Satanic enemies, a good thing they support to war terrorism for the sadistically evil liars of the neocon. Then KNOW my friends, a bushite is the enemy of every living soul on this planet. Have no love for those in the Air Force, the enemies of Man who bomb our families without excuse, but to know, they hate

US as Christ to speak free for Humanity. That DEMON George Noory was so happy last night about all the good the bankers AND CHENEY are doing for their hatred they spoke of for all Russians. SEE? not to protect America, but to kill you with their true commitment to the demonization of innocent people, all to escape the neocon terrorists. I HATE George Noory more than anyone alive in America. He is so openly evil to ourselves, that only those who wished to lie to you, (like Alex Jones does about Ron Paul), would say otherwise as bushite dumfuk enemies. Cowards committed to escaping Bush and Cheney for treason against Freedom. They doctored the NIE on Iraq, highest of war criminality. Alex Jones has never mentioned it, but for MAYBE in passing. Hey because all the bad guys are just puppets to ignore over the elites, globalists, socialists, liberals, gays maybe, Blacks, Mexicans, and anybody else smarter than NWOer Alex. Ron Paul is a coward as rarely if never has a clue of which he is speaking on.

Israeli PM says to end offensive if Gaza ends rocket attacks

Sarkozy urges Syria to press Hamas for Gaza truce

How does the ungodly get away with this obscenity? Nobody can deny Nazi Israeli broke the truce, as they always have done as Satanic for the last 60 years. Killing Jews for money is popular with the Zionist Nazis don't you know us by now? FoxNews CONNED Americans for DEATH with the unmentioned, TREASONOUS doctoring of the NIE. To kill Americans for more neocon gains, which Alex Jones never mentions either. Do Americans even care enough to raise Humanity's call? Do they demand public executions of sadistic godless Zionist torturers? as the Standing Law of America - The War Crimes Act - brought to be by Reagan - DEMANDS by the Law of America? It is the Law after all, yet, CNN, CBC, and FoxNews calls the perpetrators of the most heinous evil against Mankind, heroes. America is
a nation of godless cowards willing to die murdering innocent Christians in Israel, all for the profits of the 'magical' zionistic private bankers. Bushite grunts are now supporting the indiscriminate carnage, serving as police services forbidding any of the prisoners in Gaza from fleeing the indiscriminate slaughter. Again, as Satanic, they don't arrest the "Suspects", for what could they truly charge them with?, no instead demand we die helpless murder victims by forbidding escape, as they did in Fallujah murdering more than three hundred thousand innocent

souls. Die bushite die screams to all men on Earth from the Son of God. Will you stand for YOUR life as truly worth something here? Like lawless enemies Policing your reality will bring you more happiness and prosperity with the great truth teller HAPPY George Noory? The demon who openly confesses the will to want to murder all children in around the age of 15? Too crazy for you to face such an enemy of huge demonic origin, so, go the cowardly way like Alex Jones as sell out slave instead, to cover the demon with endless praise on his treachery to not have our fight on everyday with open calls for understanding Justice is freedom. Instead of a constant stream of bushite dumfuk enemies of Living. This isn't complicated. Or it doesn't have to be.

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce.

Alex Jones told US as a deceiver, he's been on Coast to Coast a hundred times. Not in these last eight years he hasn't. I demand Alex prove this, or be known by all far and wide a treasonous liar, trying to take US off the tracking of criminal action of his buddy, the demonic enemy LIAR George Noory. bin Laden didn't do 911, despite the facts that WE KNOW George Noory knows better of but LIES to con the American teen further for death at the profits of the un-elected bushmob. See Alex wants you to blame anyone but those directly involved in the crimes of 911, or Iraq, or those responsible for it's cover-up by Zionist propaganda. George Noory will have as invited guests whos only function there is to spread dis info as supporting more indiscriminate warfare for the escape of the neocon terrorists responsible for starting the illegal wars to begin US at. Or those whom often support torture, a war crime that only exists as irrationally held by those who's minds have only a blind hate for the indivisible rights of another innocent other. And often truly hate men and women for being Just as wise. The McCainiac Zombie video is a perfect example. When the Zombie is asked about the rights of Women, the McCainiac Zombie cried out for raping more Women. The position of authoritarian power, was only found with the bushite as oppressor, rapist, torturer, or Air Force Bomber, not liberation by freedom. The bushite McCainiac KNOWS it can't compete

openly to defend it's criminal treasonous
actions! Remember, Alex "the Conservative"
thought McCain was the choice if you had to make
one, earlier on, then changed his position,
sort of, later by calling them all puppets not
worth the effort, but .. Obama's idea's matter
not, it's that his Birth Certificate is, no war
too be fawned. Palin? who's she? McCain
firebombed Vietnam as "war hero" for France?
The Banker doesn't cover our loans? Matters
little.

Norwegian doctor: Israel intentionally targeting civilians
http://rawstory.com/news/2008/Norwegian_doctor_in_Gaza_Israel_targeting_0105.html

"All that is happening in Gaza here now is against
international law, it is against humanity and I
think it is against what it means to be a decent
person. You don't treat other people like this.
Even if you disagree with himï¿½ maybe even if you
fight with them, you don't treat civilians, children
and women like this."

Israel deliberately targeting civilians in Gaza
http://www.youtube.com/watch?v=Ev6ojm62qwA

It was almost acknowledged on CBC radio that
nazi Israelis, use the argument that a tin can
rocket traveled miles, to kill some innocent
Jew as a direct hit (likely a person who hated
godless NEOCON), all because that nazi state
has OPENLY, as PUBLIC policy, stolen water and
food including baby formula, along with a huge
list of other atrocities, to punish God and
Humanity since way back before three of four
truces. AGAIN, Nazi Israeli always, as ungodly,
break their truces. Why? Because YOU, or Christ
as any Jew's life means nothing, to all the
'free' billions they'll get from given American
worker wages. Look, Americans refuse to call
for the arrest of Bush on their national,
"truth telling" Coast to Coast radio program.
Why? Because, for one, George Noory, (Alex
Jones' best buds), has told US he's into
killing innocent kids as powerful, and that
'bin Laden did it', Is good enough for US.
You don't get a say here however how you will
live or die. George Noory calls all grunts
heroes, and those who refuse criminal orders,
those he wishes to go ballistic on. Yes, it's
true, George Noory is still alive and happy

as ever.

Rise Up for innocent Life, or don't and see
where it'll get you in the end.

Again, every soldier in the Air Force serving
for the neocon liar is a traitor warranting death,
to save the lives of their next innocent victims.
They have murdered more than two million people
in Iraq. They are pushing heroin into America
from Afghanistan. They are raping AMERICAN
women as officially "LAWLESS" (can't be arrested
but through Rumsfeld - who has not seeked any
prosecutions for the raping of American Peoples.
He, as Neocon, is TRYING to DESTROY FREEDOM
For all Americans in America - while paying
with American wages, South African death squads
to murder Black men) and TV'ed Americans refuse
to speak for Justice denied themselves. Zionist
amerikans only see US as innocent others, not
themselves to pay, but they do pay, they will pay.
God, nor John will not live in a world where
bushite grunts walk freely down our streets as
first degree mass murdering rapists, torturers,
and thieves. Celebrated by CNN, CBC, and FoxNews.
Especially when they DEMAND they have greater
rights than Human Beings. Mass Murderers deserve
immediate death sentence to defend ourselves
from their demon lies and betrayals to God and
Man. Every CBC and CNN reporter who reported
Russia attacked Georgia unprovoked will warrant
trial, then death sentences for their total
commitment to the Satanic NeoCON enemy war
criminals. Remember: they targeted for murder,
helpless innocent families. YOUR family. CNN
wants you to blindly believe, CNN personalities
like ENEMY George Noory are so happy, why would
we think they willed death against our great
Humanity by conning you for more stolen money
through the sacrifice of YOUR life for zionist
criminals who laugh at your powerlessness to
raise your voice for Justice.

-

Stealing the Title of Jew from Christ:

Fallujah by the Sea: Aping America, Israel Unleashes Chemical Weapons
in Gaza
http://uruknet.info/?p=m50412&hd=&size=1&l=e

Look at this picture of nazis indiscriminately slaughtering
our Humanity, while on MSNBC they reported that the Nazis
will continue to murder Humanity until a truce can be found,
A truce that the Satanic enemies of God will naturally break,
as they ALWAYS do. They are godless enemies of Life who wish
to steal the Title of Jew from Christ. They targeted Jews in
Lebanon with seven million land mines, and let Jews starve to
death in Israel for more charitable aid they can steal from
G-d's Good Will. When asked by Israeli newspapers why, it was
said to kill a Jew is rewarding for the godless Zionist.
Public record. Die bushite die.

http://lataan.blogspot.com/2009/01/israeli-zionists-guilty-of-deliberately.html

/ / In doing so, this makes Israel guilty of using
its own people as ï¿½victimsï¿½ for political purposes. \ \

-

What Israel Does Not want God or Humanity to See
http://www.kawther.info/wpr/2009/01/04/what-israel-does-not-want-you-to-see

Look at the comments from bushite grunts glorifing
in this indiscriminate slaughter of Innocent Human
Beings. Evil enemies of God do breath our air.
Die bushite die.

Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus!

LEAKED: graphic, uncensored video shows carnage in Gaza
http://rawstory.com/news/2008/Leaked_graphic_video_shows_carnage_in_0104.html

Zionist Enemies of The Jew do not Care for The Truth
http://video.google.com/videosearch?hl=en&hs=0hK&resnum=0&q=911+missing+links&um=1&ie=UTF-
8&sa=X&oi=video_result_group&resnum=4&ct=title#
Zionist Enemies of The Jew do not Care for The Truth
-

FBI E-Mail Says Bush Authorized Abuse of Iraqi Detainees
http://uruknet.info/?p=m50369&hd=&size=1&l=e

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ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

Israel or Hamas who broke the truce
http://www.youtube.com/watch?v=KUfgULhac8c

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

-

a-mother-from-gaza.blogspot.com

This web site is the winner of greatest interest internet site of the years 2000s.

Israeli plan to topple Hamas, re-instate Abbas
http://a-mother-from-gaza.blogspot.com/

/ / Breaking the truce Nov. 4, then, was Israel's way of getting the gears rolling for this whole sick game: the toppling of Hamas, and the re-instating of the impotent Abbas into Gaza so the "peace process" can remain forever in formaldehyde, to quote wiseass, er., Weisglass. \ \

Nov 4th! - perfect!. We are dealing with Nazi war criminals who refuse US, as a Species, Justice for everyone. Especially The Jew's Jew, Johnny America. Hint: they call us Love just to hide our complete agreement with this Living Universe to will Justice for God as every last bushite zionist freely moving. Once all the neocon zionists are rotting in a prison cell, or formally executed as godless war criminals, we all will have one joyous welcome in a heavenly future.. Until then, demand Justice for US. That's YOU too. Angels included. Who? I don't see no Johnny Wizard here anywhere, We are Good to Go. Rise Up for innocent Life, or don't and see where it'll get you in the end. The bushmob are traitors for closing official FBI investigations into 911, immediately after the mass murder of Americans occurred. Treason, of a, trust WE don't have it in US to stand for our common values as the Revolution will not be televised, Johnny Who. Man, are we or no? Be Somebody, then get on your phone to call in for Justice willed. Alive I Say! - this must be where you'd raise the dead and dying.. if you only could raise your finger to dial the phone numbers - well guess what? - I Command You Can! - snapoutofit - Speak for pursuing Justice on 911, and show serious concern for publicly paying private banker men trillions in worker wages for nothing. This is seriously disturbing, yes, but seriously important to address openly in our spaces to remedy with a Johnny Wizard World Wide Work of Wonder, Super CNN Special of Specials, with Your Host, the One and Only, President and CEO of Shareware Earth Co. John Himself. Hey everybody! Wow eh? So a.. when is the good guys showing up? Now. Justice. I want US to Host Coast to Coast for open Public communications, where things get solved because we know whats we're learning about. We of god, this way comes, then men and women with calculators to know: giving money to private bankers

on hopes they'll lend a small fraction some back
to ourselves at high interest is dumber than rocks.

Arab American rally in Dearborn for Gaza
http://www.youtube.com/watch?v=AVP4_-u6MV0&NR=1

Israel Drops White Phosphorus Bombs, Littlest Victims Suffer
http://www.apfn.org/apfn/DU_Israel.htm

My friends, demonic evil forces do exist to STEAL
the living rights from anyone of us, especially
including the Jews. Remember, it is the zionist who
steals God's good name through lies left unchallenged
by private corporate interests tied to the CON of
private banking in total. Christ is a Jew too.
Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus! Like starving
Jews do attest on a infomercial that ran for near
18 months across Canada. Then covered by the Israeli
press, that the Zionist officials there actually
enjoy the prospect of suffering Jews because it,
OUR SUFFERING, will attract more charitable aid the
ungodly criminal enemy can use elesewheres! Hitler
revisited. I am the Son to God and I wouldn't lie
to you about an issue as hughly Satanic as this.

White Phosphorous: Israel fires artillery shells into Gaza
http://www.sott.net/articles/show/172089-White-Phosphorous-Israel-fires-artillery-shells-into-Gaza

We can overcome this, and create a better world in
the process. It's back to the simple things: open
communications, and evidence, evidence, evidence
to convince ourselves truly of anything. We are
in a horrible dream right now, that we must arrive
ourselves into for comforts. Arrest the Neocons for
treason. That of course includes anti-gay faggot
Bolton for his and Kalilizad's treasonous lies
brodcasted on FoxNews these last few days. And
Peter Powers for the London bombings while we are
at it, then, we'll really being going places.

/ / My relative's neighbors- 3 young children- were
all killed today \ \

-

Satanic Enemies of Christ

CNN with Blitzer allowed reported on Larry King
that Hamas broke the truce, without any uttering
of fact. While when the nazi israelis were accused,
just minutes earlier, Mark Regev could say only

silence. The zionist Satanic enemies of Jews speak only silence, because they know they are satanic enemies liars of Human will.

Again, these SATANIC enemies break their truces everytime, then state, it is Humanity's fault because CNN will never ALLOW the humans to know. They are murdering innocent People in hospitals for example, or those in a Church, just as amerikan bushite nazi grunts do for the escape of the neocon zionists responsible for 911. To hunt a lawless bushite nazi grunt, and kll it instantly is to defend it's next innocent bombing victims. Bush and Cheney closed 911 investigations on 911, therefore killing a lawless bushite traitor for our Humanity is just to get ourselves together to arrest those responsible for mass murder on 911. The deaths of bushite zionist liars is a mercy given for the love of God. Die bushite die.

Israel Nazi State

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce. They always break their truces. Understand these Satanic enemies of God, dropped seven million land mines on Lebanon when learning the conflict was over. They will kill Jews for money, THEY are the Nazis. Nazi Mark Regev is clearly insane. 'It wasn't israel that started this' He could not stand with any man without instantly being exposed to All of Humanity as a war criminal in need of immediate public trial for death sentence. These are only innocent people being bombed. In a concentration refugee camp. Look, it's a prison camp. And if YOU
were a prisoner there, and Texan child rapists are something you'd wish to defend your community from, you'd maybe join the Gazan police force, run by Hamas, a political group democratically elected. All police officers in Gaza, Nazi israeli claims warrant 1000 lb bombs, not warrants for arrest for a criminal offense. Remember, it was Israel that broke the truce, as so is spoken by Palestinian government officials speaking internationally - using the example from November. But understand, as Satanic fraudsters, they always fuck over Our Innocent Humanity this way.

What kind of "Human" would commit such crimes against Life? Cheating Liars for Satan God tells YOU.

The Bible "I know the blasphemy of them which say they are Jews, and are not, but are the synagogue of Satan."

Look, these enemies of Life steal INNOCENT PEOPLES HOMES as thieves of The King of Jew's simple philosophy.

The Reality of Zionist War Crimes in Gaza
http://www.youtube.com/watch?v=GDjthFt6EZg

The zionists aligned with Bolton are using radio-active weaponry against all Christians. What do "Christians" in America on Coast to Coast have to say? Nothing because that demon enemy of Life George Noory, the pro child killer, insists as Truth's closest most bestest friend, bin Laden did it.

most moral army in the world:

Our reign of terror, by the Israeli army
http://www.ifamericansknew.org/cur_sit/rot.html

Glorified by CNN, CBC, and FoxNews:

ï¿½do the Gazans know that only Hamas is to blame for their sufferings?ï¿½

Remember those same news groups will KILL Americans too with poisons in our foods while smiling as George Norry does Daily

-

Gray Ghost

/ / Funny thing noone ever shows pictures of the scumbag Hamas rockets falling on Israeli civilians, but the nooz is full of Palies suffering. Fuck you all I hope Israel exterminates the vermin. \ \ He can advocate the MURDER of innocent people for the neocon liars, and Google doesn't destroy his account?

Remember Zionist Nazi Israeli started all their murder rampages against Innocent Peoples for 'free' welfare money, as broke the truce with, IDF funded Hamas on Nov. 4th. They have been indiscriminately bombing People with excuses that never do add up. Example: Nazi Israeli stated they were in the right to murder ANYONE

in a car or truck in the entire nation of
Lebanon, (especially in the Jewish communities)
because like enemy "Gray Ghost" would say, all
those innocent Peoples deserve TO DIE AS MURDER
VICTIMS for his sadistic ungodly pleasures.
Remember, Nazi Israeli didn't mention this until
thousands has already been murdered, then even
still, without radio, TV, or newspapers, telephones,
or sky writing how were ONLY THE INNOCENT JEWS
as officially targeted to know? Then the seven
million land mines to kill innocent kids for
generations. To the enemy of Life, Gray Ghost
it matters not that Israeli started the conflict
by sacrificing nazi vermined trashed as Satanic
dumfuk enemy soldiers sent across the border,
to Grey Ghost, all it knows, is Justice must not
be allowed to win this game for our human race,
for he would be truly seen as a sadistic enemy
of Freedom, powerless, or rightly dead for
his proud treasons against life in this universe.

ZIONIST DEMON LIARS TO SHOW HIT ON TRUCK FULL OF ROCKETS ACTUALLY HIT
TRUCK FULL OF WELDING TANKS
http://english.aljazeera.net/news/middleeast/2009/01/20091117737115874.html

Please John begs all People's of Humanity,
Americans do not have the courage to even speak
concerns for their dying as evil state of godless
private banker ruled blind tyranny. 'Duh, yeah
give billionaires trillions, trillions, TRILLIONS
to help the poor homeless mothers poisoned by
FoxNews CRIMINALLY.' Gawly je, I dunt no y dat
detnt work-ed' - o wel, cary ohn my wayward Son.

Livni: Gaza truce would give Hamas legitimacy

See? this is why NAZI I$raeli thinks they have
an excuse for bombing people indiscriminately
to break a truce they signed on to. This isn't
a one time, maybe two time occurrence, but every
time in the last 60 plus years the zionists
aligned with Hitler have. Satanic enemies
of Humanity.

ANTI-SEMITE is FoxNews every time they assault God
with "Israel, the Jewish State" to torture, steal,
and murder.?. ANTI-SEMITE!

The Ungodly Zionist - a report from the front

/ / The most recent victim of Israeli airstrikes
was 10-year-old Ismail Hamdan \ \

To the Satanic enemies of Man, the Ungodly Zionist,
an innocent murder victim's life can not be allowed
a defense such as the charge of first degree murder
against Netanyaho because, he states no Justice to
any who believe in the Jewish cause, as Hillel, of
freedom as Liberty for all. If Jews ran Israel,
Netanyaho would be chastised publicly by the Humans,
for sanctioning the criminal acts of first degree
murder. The nation of Nazi Israel STEALS Peoples
HOMES. What other nation on this Earth commits
such willful crimes against innocent Human beings
OFFICIALLY? Steals homes from god loving innocent
folks and labels it our 'Justice system'? Who? Neocon
Amerika, the nation that gave trillions to bankers
recently on only prayers that their gods will maybe
lend some of their own money back to them at high
interest. But alas, evil is the deceived disguised,
as in their deep ignorance of money and virtue, they
do not understand, the private banker never covers
the loan. Never does a private banker reach into
it's pocket to borrow US to begin with - so as a
consequence, the bankers have just pocketed all the
'free' loot for nothing, TRILLIONS, and are not
saying why should they help anyone else with charity?
it's the amerikan way. Instead, hate the wise socialist
who designed a working good traffic signal system,
where lives are saved and congestion is eased, or
hate the white man, the black man, different People.
But never Mr. Bush, Mr. Cheney, or Rumsfeld, the
neocon traitors who closed criminal investigations
immediately after the crimes of 911 occurred, who
doctored the NIE to con America into death, and
never slight the trillioniare private banker gods,
who have stolen/taken our public authority through
war criminals in Congress. Taken from all others
to bring us a much poorer world suffering due to
our speakings of contempt for Justice as christians
in America - who claim in silence only indignation
for real Christian families robbed or murdered
Officially by the zionist state of ungodly Israeli,
paid for by dying America. Americans refuse to raise
their phones for the arrest of the bushmob for capital
mass murder, so, what's private trillioniare bankers
walking away with the entire economy in free fall
going to do for them, when they are already to
death for the glorious Zionist Neocon thieves of
Civilization? Proudly in hatred for Innocent
Humanity. Again, Hamas was founded by Zionists
in the IDF, to kill Jews for money - public record.
Jews starve near death in Garbage dumps of Israel,
all because the Nazi Zionist UNGODLY government

states it is beneficial to starve Jews, for, they will receive more humanitarian aid THEY can use elsewhere. Public knowledge. Zionist liars murder innocent Jews for money, like they did in Lebanon, and like the zionists did on 911 by forbidding the pursuit of the terrorists by following the crimes scene leads at the real murder scene. Unjust enemies of Man.

To arrest those responsible for 911, we are going to need to form a public warrant for a person or persons. Bush and Cheney are guilty of closing investigations on 911, treason, called obstruction.

UnHoly Nazi Israeli Racists are Greater than the censored words of Messiah!

IDF's YouTube Gaza channel to Correct Ourselves

/ / it will disseminate footage of precision bombing operations \ \

Precision? They dropped seven million land mines in Lebanon, after having seeked out where the Jews lived, (Northern Lebanon), and murdered them firstly! JEWS. They, as enemies of God, like those of FoxNews, will refuse these type of FACTS on their hatred for Love and Justice. Their hatred for Jews, real Jews, like me. Understand: American baby formula has been contaminated with poisons, and FoxNews doesn't think it's important to their corporate responsibilities to kill ourselves further for profit. The Zionist will murder anyone just to steal your belief in God as Love. They HATE me for being wise and Just. Hate. For, why wouldn't America support my demands for open radio communications on the Coast to Coast radio network? Americans would rather murder Humanity before Justice succeeds beyond their illusions of grandeur through the mass murdering of ourselves for stolen gains. The banker does not cover our loans! Giving them trillions for free unquestioningly is dumber than rocks. Enough.

Fake Rocket Attack
http://xymphora.blogspot.com/2005/02/fake-rocket-attack.html

Remember however, the Zionist has no qualms about killing Innocent Jews too if it means Americans will get it more free welfare to murder ourselves. They openly STEAL Peoples

homes in that nation run as thieves don't
You know? Or as it is just open public
knowledge that the Zionist excepts that
911 was actually a good thing for them as
war criminals reaping the cash rewards for
continuing capital murders?

/ / Ehud Barak promised that the war would
continue ï¿½to the bitter end.ï¿½ \ \

That is you there Barak promises to end
bitterly as the innocent the demon targets
for ungodly murder. How could ANY REAL MAN
steal food from a Christian baby? How do they
do it?, as the inhuman. (Like bushite do in
Iraq, while on CNN in interview tell US, they
are there war criming for neocon traitors to
steal everything as "helping the Iraqi
children". They offer no clean water, no food,
just indiscriminate bombing campaigns of evil
incarnate. True fascist nazi enemies of true
freedom in America who advance censorship to
anyone like myself. Why? They lose. They are
not men but Satanic enemies of the King to
Jews, the Messiah. I Am. Thieves to the
scriptures of Hillel, and of Moses. Thieves
to the intent of every true religious person,
for God is everywhere. God is the Word, and
the Word is Holy. So, fuck you and die bushite
nazi traitors to American Justice, those of
them who refuse US open free words to resolve
their war criminal behaviors as is done in
godless Israel today against INNOCENT
Christians. Done before another innocent other
has our homes stolen, or is murdered by the
lawless grunting bushite dumfuk enemies of
Jesus Christ. I am King already, always have
been, always will be. Live with it. The Koran
is filled with great understandings on this
relationship. Christ is mentioned more than
Mohammad - and Mary can be understood as the
mother of all being before we are. a virgin.)

Look humans, you've
had your fun murdering yourselves, now the wise
people will compete for bettering ourselves by
understanding. Who the fuck are these illiterate
monsters at CTV national television? and how can
they willingly keep our soldiers in the dark dying
that way by simply smiling? Are they experts in
anything? are they respected researchers? writers?,

politicians?, civil rights lawyers? - do they even
respect ourselves enough to be warned of vaccines?
NO, instead they LIE with such contempt for Humanity
I am surprised Canadians, don't speak out more..
perhaps they do, it's just CBC, CJOB, and the
Winnipeg Free Presses of our World make no attempt
to inform ourselves about it. They don't take my
thousands of calls, how about Yours?

Life is real to know, if you seek, and not go
so freaked out as Living is as it always has
been. Knowing God is cool, 'amazing', yeah,
whatever, but we are of too this real world
suffering for our lack of respect for a wise
person speaking. I WANT FREE PUBLIC DEBATE
FOR JUSTICE AS ALL INCLUDED. Now really, is
that too much for US to ask freely? What say
you Googler? Afraid I will truly make your
banker gods look like fools?, the gods we all
give more than half our lives to for nothing?
Don't want to look truly dumb as deathly
ignorant, so censor US all themmers you are
too in command of your Fate. So be it. See?
Stand in. I didn't even really do anything
there, yet it's written, it's done. A Miracle!
Imagine: your Christ! YOU. now what are you
going to do.. time is ending for you remember,
now what are you going to do? Will you pick
up your magic phone and call likewise for
Justice denied, or will you crawl up on your
cross and die in silence for the glorious
Zionist aligned with trillioniare private
bankers and Satan? Christ is of all peoples.
Your on a mountain.. You've raised yourself
from death already, and your here to do
something greater for the love of God..
what's your plan for the common man? Welcome
to the real world my friend.

Morpheus 'Nobody can tell you what the Matrix
is, you have to see it for yourselves. .. all
I am offering is the truth Neo, nothing more'

Lawless Police to Defend Who Again?

They Call it Terrorism

"Israeli nazi enemies call bombing people,
like they do without apology, terrorism.
What can't you figure?"

CNN TODAY

/ / Stand down 'Christian' nation. It's
not your babies. Ethnic cleansing is not
a 'sin' as long as the 'chosen ones' of
Israel do it. \ \

Israel, the nazi enemies of God nation broke
the ceasefire on November 4th. Now, as demon
liars claim they want to honor a ceasefire
again to further steal ourselves from the
Love of Justice. Why do the godless Zionist do
this always as first degree murderers? Because
they can't win an open debate on their treasons
against God and Man. The private bankers DO
NOT cover our loans. Again, these SATANIC
ENEMIES OF GOD dropped seven million land
mines on Lebanon while target killing JEWS.
INNOCENT JEWS. Targeted. Northern Lebanon,
look it up. Israeli MURDERED Jews. Innocent
Jews as targeted for more stolen charity. I
again, beg you to support my call for war
crime trials against the bushmob, including
CNN demons who report a total contempt for
YOUR life dying. Your call loser.

ISRAEL: No civilian casualties in Gaza!
http://uk.youtube.com/watch?v=RlZd3vR6Kzk

Satanic enemies of God as anyone included.
Think: who buys these demon lies to steal
further from our innocent Humanity? Zionists
do at CBC and CNN, who will murder America
by openly lying to destroy freedom. Example:
CNN reports Georgian nazis who targeted
children schools, churches and threw grenades
into our homes to murder as minions for Satan
are called freedom fighters. Just like the
Third Infantry, the new lawless police officers
of California, who can't be charged with rape
for example, because ONLY Rumsfeld can okay
such prosecutions. Hey who cares for Iraqi Rights
right?, for TV America's CNN with FoxNews and
George Norry doesn't, for it's only American
women and children now right nazi enemies? And
WE ALL KNOW, cowardly America refuses to even raise
their phones for these dying concerns. How can
George Norry continue to live happily dying
America for the neocons? How? they let them.
Alex Jones thinks George Norry is just
fantastic, so no, don't encourage the NWOers
to demand free communications, because if we
did, Alex Jones and the like, would factually
look like the idiots he is. (better to die

America than face this foolishness?) The
banker doesn't cover our loans, we do Alex.
So giving them trillions in American worker
wages is a bank robbery in progress. Simple.
NOT a diabolical ingenious plan, we, the simple
folk can't figure without the Alex Jonesers
geniuses of thought control developed by the
CFR, builderberg, the Boners and NASA.

Obama stated all lawless soldiers who war for
godless Zionism are heroes, which includes South
African death squad goons who murder my nigger
friends. AEGIS. I call them lawless enemies of
God, deserving death sentences to save the lives
of their next innocent victims, Obama calls them
heroes warring for the escape of the neocon
traitors responsible for 911. Who are you going
to believe?

Look, I plead

http://news.bbc.co.uk/2/hi/south_asia/7771243.stm

/ / Calcutta police arrested Mukhtar Ahmed
for procuring SIM cards for the group without
knowing that he was an undercover operative.

He was on a long-term mission with police
in Indian-administered Kashmir. \ \

His cover was blown?

This is a guilty\accused party to the offense,
and blind men of state plate, 'we're going to
maybe let him go, so they can start a war of
mass suffering and death.'? Who is "we" enemy?
Why is this story not where it should be? Who's
interest does it serve by further dying
Humanity to: we don't care about not stopping
terrorist crimes in progress then? Don't be a
Nazi. Why? Just because. THE 'suspect' WAS IN
ON THE MASS MURDER OF US. Justice for All
there you nitwits. Under who's command was he
working?, and does Condi figure in there some
where by sending TV America elsewhere? Who is
set to gain money in the planned indiscriminate
murderous bombings, and let's try, then execute
them instead of US as innocent victims how about?
King of Earth I am,

An American Patriot

FDNY Lieutenant Admitted Plan To ï¿½Take Downï¿½ WTC 7
http://www.prisonplanet.com/fdny-lieutenant-admitted-plan-to-take-down-wtc-7.html

Protect Elections, Prosecute Rove
http://www.velvetrevolution.us/prosecute_rove/

/ / The GAO reached the estimate of 190,000 missing
arms - 110,000 AK-47s and 80,000 pistols - by
comparing the property records of the MNSTC-I against
records US General David Petraeus maintained \ \

Understand this: Saudi commander Buford Blount, gave
out 170 tons of explosives for looting, all so they
could, shoot us up in Baghdad. A Saudi commands the
Third Infantry as traitors to the cause of Freedom.
Cowardly dying Americans are so due to self contempt.
Cowardly.

9/11's a lie
http://www.youtube.com/watch?v=tAkWNxhBWjs

Creating a nation of zombies
http://www.brasschecktv.com/page/506.html

-

In a Normal World

"It's not that we're Jewish, it's that they are
war criminals."

IAF plans to hit targets in 24 hours
http://www.nation.com.pk/pakistan-news-newspaper-daily-english-online/Politics/23-Dec-2008
/IAF-plans-to-hit-targets-in-24-hours/2

"General Mullen is pressing our authorities to
allow India to hit certain targets,"

In a normal world, Mullen would be questioned,
then arrested, tried, and executed with Gates for
trying TO KILL INNOCENT PEOPLE for cash profits
stolen from God's America. But the nation is filled
with cowardly know nothings.. how do we know this?
They refuse to even pick up their phones to complain
about DYING needlessly for the un-elected Zionist
neocons. The TRAITORS who did their part to carry
out 911. America only PRAISE real demon George
Norry who openly lies to the ears of America, while
advocating the indiscriminate slaughter of all
children in around 15, because he claims, that way,
you reduce the risk that they might sometime in the
future own a gun to kill himself as a REAL bad guy.
These REAL monsters will kill your American kids for
cash. Why? Because YOU refuse to even raise your
phones for concern. It's "just" your neighbor's kid

who'll get the vaccine shot filled with toxins, drink the American Milk, chew the bubble gum, eat the Campbell's Soup, or drink the tainted water. The poisonous water containing sodium fluoride is in soft drinks, beer, and bottled purified water costing near 3 dollars that Pepsi openly confessed, they just get right from the poisoned public taps of Boston, unfiltered. TV America? where are you man? Why do you still refuse to raise your phones? You go in faith WITHOUT science, with reason?, without God, or even crave my words as the Great Son. Why do you forsake yourselves? Are you not worth the effort to say your own lives are worth something too?

Charlie Manson "Yes, your honor, I did authorize the killing of Sharon Tate and the rest, but you know, we need to focus on the future rather than the past!"

Bushite Nazi grunts of the Air Force have bombed more than a many innocent persons, claiming we as Humanity can't hold them to account for their murderous crimes of STEALING our lives. It is an oath soldiers give to obey lawful orders only, yet, a bushite's word means nothing. They bombed Samara for no reason but to die. They bombed Fallujah for no reason but to die. No honor, no courage, no manhood.

-

Jewish Rabbi: Zionists are Godless Criminal Thugs
http://www.youtube.com/watch?v=T1NLdRVkJiA&feature=related

-

Where's MY Bailout???

"It's must be good to be too big to fail, or be a fat cat too big for jail."

In who's world?

-

http://www.sundayherald.com/international/shinternational/display.var.2476912.0.bulldozing_bedouin.php

/ / Where does Israel think these people are supposed to go, after evicting them and torching their homes??? \ \

See, the thing is, these Satanic enemies of both you and me, (along with every other life form is this Galaxy), seem to think hurting

innocent People, murdering ourselves actually,
will destroy God's Good Work for Justice
in our times, while they make of as terrorist
thieves.
It's not that we're Jewish, it's that they are
war criminals. How could any living Man, On
Earth, STEAL food from innocent infants and
mothers? Randomly send in Military rockets
into refugee camps? Who? SATANIC CRIMINALS WHO
HATE JEWS. Jews, Real People, like me. To all
be fair is my motto, as was countless others
- as also known as The Golden Rule. (look for
Johnny's The_Golden_rule.mp3) and don't forget
about Confucius!

-

CONDI DID IT ?

"In other words, Washington exerts more control
over the ISI than the duly elected civilian
government of Pakistan."

Now, that's bizarre. Imagine doing it, then
blaming yourself for it on hopes one thing
doesn't lead to another. All are innocent.
Justice is freedom. Lawlessness is evil dumb
man. Sorry, but that is now the world turns.

-

Will Congress listen? IMPEACH NOW! Bush is a Threat to Peace
http://www.youtube.com/watch?v=vOV78w2MPT0&feature=PlayList&p=78D7AD665B2B029D&index=1

-

CNN Don't Want to Take our Questions

Cheney worked immediately after 911 to close
police investigations, as so reported
on Meet the Press, with the late Tim Russert.
Simple. Or cowardly like Alex Jones call him
just a puppet, and blame the NWO geniuses
hid away in far off places, manipulating to
secret out the blind idiots who don't truly
believe in elementary logic. This isn't
complicated.

Fed Refuses to Disclose Recipients of $2 Trillion
http://globalresearch.ca/index.php?context=va&aid=11416

Bernard Madoff -- The $50 Billion Thief
http://www.youtube.com/watch?v=0IhJJXjxmHU

This spot where the Jews laugh at law men,
then get all their life savings stolen, is
THE classic in the halls of Zionist History.

Some say, Christ, the Jew, is a law man
too don't you know.

This is What Americans Are?

/ / the United States has refused to sign
a declaration presented Thursday at the
United Nations calling for worldwide
decriminalization of homosexuality. \ \

Again, this Zionist infiltration is
designed to divide our populations through
demonizations against the Innocent. There
is no crime in loving people despite what
GCN advertizes.

"The concessions made by the Olmert-Livni
government to the Syrians do not and will
not obligate a government that I shall head,"
Netanyahu said. The concessions of indiscriminately
murdering US repeatedly? Understand to know:
The Zionist is a Satanic demon enemy of Humanity
according to God, in the Bibles all timelessly.
Netanyahu, the demon, is so ungodly as evil
criminal, he will likely "win" Istraeli the Zionist
election on a public platform of godless tyranical
theft and murder. Remember, Israeli Zionists
funded the creation of Hamas to kill Jews in
Israel, and TRUE Jews also live in Lebanon, Iran,
Etheopia, Canada, and the North Pole, and we're
the "niggers" there too that Israeli despise -
like as they who PUBLICLY supported South Africa's
oppression of Innocent South Africans for stolen
monies. Satanic I tell you. Don't believe? in
innocence? That's the power of Peres, the devil.
Evil a zionist criminal is proudly. Peres will
tell you, all about when Zionists target to murder
little old ladies as he did on Larry King, it's
really not Satanic, because they'll blame the
murders on someone else completely different,
as US, the innocent. blatantly. In your face.
While CNN goes, uhuh, gotta kill those Jews in
Northern Lebanon. As Syrians too! Israeli dropped
seven million land mines on more than 170 towns
and villages given to them from Condi! a godly
nation of Jews? ANTI-SEMITE is FoxNews everytime
they assault God with "Israel, the Jewish State"
to torture, steal, and murder.?. ANTI-SEMITE!

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

-

MY LIFE HAS VALUE

"You can't count on Congress or the Courts to save yourselves"
Ron Paul - The oUtRAgiOuS fUnnY MaN

Ron Paul is a traitor. He didn't support arresting
Bush for 911, or for the killing of American teens by
doctoring the NIE. Now, Alex sells Ron Paul, is
his leader of OUR truth movement because he says
there's nothing he's going to do but blame poor
people, or socialists,

"The Liberals and the Socialists, along with
the Communists and the Gays, with the Muslims,
and Community Organizers with the freaks different
that me did the murders", said near all the retard
bigot Conservatives blindly false accusing.
Example: Condi says Pakistan's ISI committed the
murders, the FBI says no, there isn't a scintilla
of evidence to substantiate that. Condi says
Pakistan's ISI FOR SURE did the murders, the FBI
says no, there is not a whisper of fact to form
that conclusion. The "Army" says for sure Pakistan
did the murders, the FBI says no.. There is not
a thread of fact a zionist offers to form YOUR own
mind in respect for your rights being equal to ours.
Condi only tries to hypnotize the "Conservatives"
into believing something without understanding,
without knowing. Sean Hannity does this everyday
on purpose to kill innocent American teens.
Conservatives are universally ignorant People,
and sometimes, serious war criminals like Condi.
Taking US off the target of following the crime
scene leads at the real murder scene. The
"Conservative" mostly doesn't have the mind to
understand Justice is freedom, like the NWOers,
so they false accuse US as Innocent others, for
crimes they don't speak for as Our true defense.

I'm counting on you kids eating right, and
knowing you belong free here. I'm King Johnny.
Hi.

Anyway,

Imagine: Alex doesn't ask 'hero truth
teller' Ron Paul for a million or three for
advertising on Bush and Rumsfeld's prior plan
to invade Afghanistan for Enron. Why not?
Who's money is it still anyway? Ours. In
God we Trust. Wanna see a card trick?

Christ Loves Everyone!!

I can FIX Monstanto's GMO assualt.

How? by understanding the science
involved, that Monsanto DOES NOT, and Alex, not enough.
(look for works I've done A DECADE AGO FOR ANSWERS -
Google however has removed more than 20,000 documents
referencing my writings as of last month - do you care?
That a man such as great as I, will not be allowed to
give my works for free to Humanity any longer? -
People of Earth: undertand, many in America say YES!
here, because they truly HATE Humanity's cause of
Liberty and Justice for ALL. Google closed my
Jew_Boy_Johnny account, all because of vermin like
"shitskin Moslem", who openly message in the
hundreds daily for murdering innocent Moslems,
who pirate all of Google Groups with racist
nazi slurs, just needs simply complain I am anti-Semitic
- The Son Of Man - no trial, no questions, no answers!
I can not post more than three times every four to six
hours, otherwise, they close my accounts, while at the
same time then, go through years of my writing to
sadistically destroy more. They figure they have
something in our Courts to support their treason of
assisting in mass murder against America by Zionist
theives who steal the title Jew, as in godly? while
shitskin posts hundreds daily pirating everyone's
threads with his EVIL hatred for God and Humanity, if
not even more from Israel) Not the Alex Jonesers way,
but the actual way logically understood as where the
problem resides. DNA, as is life, is multi-dimensional.

Where is this
"Christ" that CBC, CNN, GCN, and RBN harp on
that speaks nothing for real Justice to the victims
of 911, or Iraq, or Afghanistan? Or the children of
South Osettia? Alex is near fit, but he is far from
sufficiant. Jack Blood was great, but Alex we guess
doesn't want him looking like he Rulez like US
too though. RBN has it's moments, yes, I guess that's
true.. Things do seem to be improving, what with
all the torturers and rapists wanting to come home
as brain damaged Zombie police officers. They don't
want the laws of freedom though, too complicated.

They'd rather hunt down our families from the sky with bombs actually.. fuk, I hate EVERYONE in America's Air Force, every last evil fuk. They watch these videos and celebrate their complete indiscriminate murderings that get killed so many GIs - they celebrate the slaughter of our innocent Humanity . George Noory will kill your American kids, have no doubt, for, he already has.

CBC and CNN only smile to tell you all the great things they do by denying OUR Humanity these truths.

America is a cowardly evil nation desperate for excuses as still being run under by zionist thieves.

-

Israeli Settlers call Ethiopian Jews "Niggers"
http://www.ynetnews.com/articles/0%2C7340%2CL-3633163%2C00.html

This isn't isolated. The Jews of Ethiopia, are the actual Jews of the Bible. These monstrosities that God knows as Israeli, are Satanic enemies of Man. They steal our homes, rape or torture our INNOCENT families, and bomb Jews as the did in Lebanon TARGETED as an OFFICIAL function of their evil "government". They actually, a few years ago, gathered all the darker skinned toddlers, and murdered them as an OFFICIAL government of SATANIC action. More than 100,000 "Nigger" toddlers, Jews, they murdered with radiation poisonings. Officially. Now, Americans GIVE them money to bomb innocent Christian families indiscriminately guilty of nothing. They steal their desperately needed food and medicine. They are thieves of the most vile evil natures. Example: the Zionist who STOLE 50 billion dollars from American Jews will not be ordered to give back the money! Sure, they tell you that SOME of the suckered Jews, will get a small portion of their investment returned, but only through the wages of American citizens, NOT by the Zionist THIEF, T-H-I-E-F, who you are told OFFICIALLY "lost" the money. (will he even spend a day in jail?) He lost it, ah shucks, just like the trillions "lost" to criminal trillioniare speculators. And like the banksters, who never covered a dime of the money for the fraudulent loans, but get to STEAL your homes, and now wish to charge US a renter, for a home Americans, the illiterate suckers, actually paid for, and will continue to until they speak above the

laughter of a George Noory, or con man Bill O'Really, the true demon enemy. Or will instead? cowardly, will go like Alex Jones, naw, George Noory is a good guy, a happy guy, sure he speaks of the enjoyment in slaughtering defenseless innocent children, so what?, he's pleasantly happy to state all is well going ballistic against soldiers who refuse criminal orders from the Zionist neocon. Not a fuking dime!! Understand, this isn't just a, let's get the info out for People to know as Alex Jones sells to near overdose.. (we are mere mortals who work nine to nine Alex The Great.) CBC managers, all of them, have known since shortly after 911, that Bush and Cheney closed FBI investigations, they know that iron is on video flowing like water from the towers, THEY KNOW THIS because I personally told them. Yet, they smile as demon liars to die our teen soldiers CONNED deliberately. We need some serious police action in arrests of treason against all news celebs, who of course will get lawyers, (what they deny in happy silence to not mention against American torture victims) but will be shown conviction for their real contempt for the value of YOUR life my friend, our lives they watch indiscriminately die for lies they sell happily for stolen cash profits.

Dead Babies Can Take Care of Themselves
http://bellaciao.org/en/spip.php?article17872

/ / The FDA may not know a safe level but I damn sure do, that level is zero! \ \

But will Americans of America, even lift their phones against happy George Noory, CNN, and all that sees fit, to sit idly silently dying US victim in their corporate extravaganzas? I hear the magic money bag guys are in running the show from our central banking offices, in as a debasing culture of indifference to their own cowardly sacrifice. That's if we believe what we know of the fictions they sell ourselves. Georgia, Iraq, Afghanistan, and so on.. they lie to our world for criminal gains, gains they've seen near to overtaking them. Demand the arrest of Bush and Cheney for closing criminal investigations on 911 immediately after the crimes occurred. Then, without evidence, falsely accused an innocent man of the crime. A crime they knew enough of,

to plan before hand the invasion of Afghanistan
for Enron. Speak now, or, suffer to die in
tyranny you nation of fascist cowards.. your move.
Your baby.

-

My video removed for no reason
http://www.youtube.com/watch?v=UthzF35SdbQ

-

Does this Work if The Judge is a Criminal?

http://rawstory.com/news/2008/DoJ_blocking_Obama_team_from_docs_1212.html

/ / The Justice Department has evaded a request
from President-elect Barack Obama's transition team
for documents about the secret programs of U.S.
intelligence agencies. \ \ Torturing innocent People
to death as guilty of nothing, or escaping bushite
rapists who target American women in Uniform,
while pushing heroin to enslave American teens for
zionist grave robbers. Not in Johnny's America I'll
tell you that right now.

It actually doesn't work that way though..
Justice is man.

NASDAQ chairman Bernard L. Madof STEALS 50 BILLION ! !! !!!!!!!
http://www.youtube.com/watch?v=MrcBazJ5Xas&eurl=http://www.brasschecktv.com/page/497.html&
feature=player_embedded

/ / CNBC's Davif Faber reports on the $50 billion
Ponzi scheme run bu ex-NASDAQ chairman Bernard L. Madoff. \ \

A Zionist STEALING from Innocent Jewish Peoples targeted
SPECIFICALLY. Somethings never change... Do you have
any ideas on the fact, that a great many Zionists
have been arrested over the decades for putting Nazi
Swastikas on their own grave stones? Also, did you
know an estimated more than 20 million Russians died
to defeat madman Hitler? Who's banker was Zionist George
W. Bush's grandfather? Do you know this yet?? Well,
now we know we know, to be King I am here your servant.
Just don't therefore figure I'm going to wash your
feet now. Be American.

http://www.worldnetdaily.com/index.php?fa=PAGE.view&pageId=83477

/ / New rules published in the Federal Register
would allow certain civilians to call American
soldiers into action inside the U.S. to prevent
environmental damage \ \

This is why it is outlawed by the American Constitution(s). Demon thieves must not be allowed to command mindless grunts who shoot people randomly for fun. As AEGIS and Blackwater, KBR enslavement camps along with Campbelli¿½s Soup, is in part, their acceptable Business partners, warring Humanity as US innocent for stolen profits with poison. Teen grunts are admittingly from any you honestly ask, portrayed ignorant low life failures, drop out bushite vermins who want to in turn, victimize the innocent as they accept America, as them, must tyranny as cowards for traitor war criminals. Criminals like them in Afghanistan, who openly defend poppy fields to imprison American citizens say nothing on their trailer trashcan talk, internet forays for blatant complete disregard for suffering Mankind. These grunts of far off military dictator shipping nations, that the TV neocon wants patrolling our Americans streets, don't instead fight proud for our honorable Police Service successes - of whom play our Freedom game for the law books sighted as rights heretowin. A force that claims they are lawlessly un-accountable, is a force of evil against our great lands. Friends, they hide nowhere in darkness, ready to be exposed for Public questioning. Soldiers were caught dressed as al-Qaida, murdering police officers, and when they were in jail, awaiting trial, the bushite grunters, broke them out!! With "American" Tanks commanded by a Saudi in some likelihood. (Buford 'where's the billions?' Blount is a Saudi military commander, who in his off time, also commands, the Third Infantry!) Posse Comitatus will be a good thing to impose as standing Law..?. You're the American Patriot Soldier. Need help? Well, I could be your make believe King for the time being.. by just simply, forwarding these life and death concerns as our own. We have some rights here Soldier to have Justice prevail as our benefaction. The bushmob did 911. Your call.. Don't be dumb now. Your call..

Lawless enemy world of enslavement though naked ungodly tyranny?, or American Liberty as Justice believed for the victims of Guantanamo? False capital accusers who take our concern awry are our problem in fair Governance here, when we understand this, we will have conquered the world as the new orders. No evidence, person

innocent. Torture? fuk you and die then. These
be the glorious tales we tell of times ago, where
men were men, and war criminal zionist nazis were
hunted down to defend Life ourselves. When a
bushite enemy of America dies, it's a glorious
moment for all innocent Peoples defended from
it's lawless terrorism. They are traitors who war
for the escape of the neocons responsible for 911.
Cowardly traitors who LIE to America to con
further more from the American victims.

The CNN political team chooses the videos, not YOU.
http://www.youtube.com/watch?v=sEJTd0oSB7k&feature=PlayList&p=86DBD53BE904238D&index=0&pla
ynext=1

Why do you forsake me, your wise great King? - your
took by crooks falling in thievery by silence for us
deafening. Enough. We Need Real Leadership.

World calls on bringing Israeli [ZIONIST/NAZI] leaders to Courts of
Justice
http://www.uruknet.de/?p=m49523&hd=&size=1&l=e

McCainiac "We got to have our head examined!"

The bushmob doctored the NIE on Iraq to con
America for death.

-

Give Free to Banker.. Loan Back Maybe? Paleeze..

Why We Do the Things We Do

Sales pitch: Mankind takes on the world as One
with the calculators. Civilization DID happen!
Correct math scores are not impossible to find as
an answer to: why we do the things we do. Americans
gave private interest bankers trillions on only
Hopes that these, the most obscenely wealthy of all
the upper classes, are going to graciously lend
some of our own money, (we just gave them,) back
to us... in dire need. at interest! It's for our
benefit baby, don't you cry. This is just plain
dumber than rocks Johnny Wizard says okay. And
simply going to a gold standard is not the easy
made NWO answer, it is accounting for ourselves
that is going without questions. The private
banker is highjacking our public authority for
their private interest of exploitation.

Our governments are not holding Private Bankers
to some kind of public authority to question who's

interests are being devalued here. This is why
the thing has been messed around for so long, We,
the People, have been too foggy on super basic
math skills as pronounced by, truly effective
Jewish leadership. "The Private Banker DOES NOT
cover our loans, we do." Read that again now.
And acknowledging, we, as conscious, can succumb
to suggestion without knowing what we are even
saying sometimes really. Everyone wants to play
the lead, but few are wanting guitar practices.

It get's easier as you try..

Answers: we need a tax on every buy and sell to
limit speculation in the stock markets as it was
prior, while openly discussing how the
investigations are going, in returning the 700
mill that was given through for another means by
Congress. For the private bankers to take that
money elsewhere, is to neglect the problem
persisting of home owners, and that mortgage
issue they forgot US about. Why Americans
desperately, at peril, gave the money to begin at.
Look, while arrests are transpiring, we'll then
discuss using the re-cooped stolen money to finance
all remaining mortgages on family homes at zero
interest levels, upto, let's say for now: $500,000.
It's an idea I'm putting out there to dialog on
with you guys and Obama. Obama!! How's it going!!
Hey man, we can work it out.. You don't seem like an
impossible person to reach. Hey, make life interesting
in ushering in a new peace plan by communicating. Now
I know your all pals with everyone as government, as
that is what a successful politician can do sometimes
good, sometimes criminal. Obama, we can't let these
con men go. These have been times of lawless wars
against God as indiscriminate bombings, of torture,
of slavery, of heroin pushing, of national looting of
a Peoples Treasures. How much is too much for you my
poorer brothers and sisters of the faith? Obama, let's
believe in ourselves. These bankers are stuck crooks
for no faulty but our own. It's still our money however.

King Johnny Earth, White House Jester. !

Our dreams have come true... Boo!

909. Re: Australian bush-fire

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 01:09:56 UTC
From: John KD5YI <groups1.jocjo@xoxy.net>
Message-ID: <EnLjl.2081$eK2.1139@nwrddc01.gnilink.net>
Source record: 17733

"Peter" <colleenpeter@westnet.com.au> wrote in message
news:KrSdnVQhf5y34RDUnZ2dnUVZ8jCWnZ2d@westnet.com.au...
>I was viewing the BOM (Bureau of Meteorology) weather radar of Victoria
>(17:00 07/02/2009) despite the fact that locals assure me that there was no
>rain at the time over eastern Victoria a number radar returns indicated
>very heavy rain at a number of the bush-fire sites. It appears that the
>radar was detecting the smoke.
> I was under the believe that weather/rain radars gave returns from rain
> droplets and that smoke should give little or no return.
>
> Any thoughts!
>
> http://mirror.bom.gov.au/products/IDR023.loop.shtml
>
>
>
>
> --
> Peter VK6YSF
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

Probably not from the smoke. The interface between the column of hot air and
cooler air probably caused the reflection.

Cheers,
John

910. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 02:44:17 UTC
From: dloydlavies@gmail.com
Message-ID: <t36vo4pv93e8kcv67mup2h7a9fbivebjtp@4ax.com>
Source record: 17734
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sat, 7 Feb 2009 22:00:19 -0800 (PST), "w4nti@live.com"
<w4nti@live.com> wrote:

>On Feb 6, 8:51ï¿½pm, "Not Mark" <anon@anon> wrote:
>> Roger's taxes on his Castle just went down. Mark wants to buy the house
>> across the street so he and Roger can be closer.
>>
>> http://whywogersucks.blogspot.com
>radio content

911. I Must Be on Crazy Pills - I Must Be on Crazy Pills - I Must Be on Crazy Pills

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 03:45:05 UTC
From: Nazi argues it's good to get killed Jews by breaking truces with Death Camped <90909nomailhere@hotmail.com>
Message-ID: <ql9vo45h8ccp7c4o18e949crc2bgneee7n@4ax.com>
Source record: 17735
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Private Banking Made Simple
http://www.megaupload.com/?d=0K03GAVY
http://www.mediafire.com/?xo9w32zmfox

I must be on crazy pills
http://www.uruknet.de/?p=m51615&hd=&size=1&l=e

/ / Well, why haven't the banks just returned
the money?... \ \

People who know they defeat all "Conservatives"
in seconds with indisputable simple logic, will
eventually rule this Universe, if CNN, CBC, and
Alex Joneser NWOers allow open communications
on what is understood by all as high acts of treason
openly committed without a defense of smart people
explaining why/how we are being rooked as idiots
on purpose. Crazy man, crazy. Oh.. anda..
justwondrin', would be the first name Reza be that
of the feminine or, echem.. masculine? Just
curious on language that's all..

Oh, logic like, "Buying in bulk is cheaper."

-

Godsmack - I Fucking Hate You
http://www.youtube.com/watch?v=FiPtHkfDXus

Hey! Johnny's new theme song playing when
I be bagging the bushite zionist whores of
the demon antichrist, Our Mr. Bush Jr. Bush
closed 911 investigations, Bush lied about
Saddam not letting inspectors in, Bush never won an
word fairly in his entire war crime life of
game rigging with naked deceit and betrayal to
the cause of Man, die bushite die. Rock on
my friends, rock on.

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why
bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what

any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

LIFE IN PRISON FOR AMERICAN VICTIMS

[godless bushite enemy] Marines ignore Afghan opium so as not to upset
locals
http://rawstory.com/news/2008/Marines_ignore_Afghan_opium_so_as_0507.html

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough
-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the
deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate
cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

Worst Person in American Broadcast Journalism
http://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel

This is like, so profound. Gibson's condemnation
is directly aimed at his own ideas of the subject
he has no grasp of. Wow. profound. See though..
this "popular" FoxsNews celeb has zero interest in
helping America succeed to defend freedom through
lawful actions, because he has no sight of a better
world blindly destroying itself. Hey Gibson! why
don't you try and be a good guy for a change! No
joke. Wow. Profound.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-c
hildren-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty

verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Ten years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all
around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make

our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be
an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men.

-

(pet bed cat trees...)
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would
have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors
in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not
Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'
dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

-

U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministerï¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow
/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change

this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&pla
ynext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3

http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the
coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&
scoring=d&

Huh? "at last been disarmed..." ? How does he figure?
The equation hasn't changed. Example: The same
unaccounted anthrax, (that was disintegrated into ash),
still is not able to be measured as completely accounted
for, (never could be), but this bushwhoring war crime
apologist, tells US, it was only though the lawless
murder of our good friends and family for countless
generations, that he now attests without reason, or
evidence, to find Iraq in "fact" disarmed of it's still
nowhere to be found, weapons of mass destruction. (An
irrational reason he pronounced previous in corporately
broacasted public support of instigating heinous war
crimes against our humanity under the leadership skills
of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron.
And, the Iraq war is a war crime. But Ron, the
Fascist, doesn't want THESE FACTS uttered. Why?
Because wiser men would prevail, wiser men like

me who understand buying in bulk is cheaper. Those like Christ who understand, who KNOW, the banker doesn't cover our loans - so why give them as much as a taxed red penny?, let alone trillions as officially unaccounted for? They are stealing the cash Ron. Ask yourself: Why has Alex Jones forbidden his bushwhore cult from understanding Bush doctored the NIE?, or of iron flowing like water from the towers? Because wiser men would prevail and he can't have that. He called shooting innocent men in the back, an act of liberty. I, an actual god, unlike Alex, lie near never, but maybe to myself when I'm lonely. Alex yes will tell you rapists are free to do what they will in Texas to American children, un-arrested, but he won't mention it when the police chief is with him on air, talking about how he'd like to be exempt from traffic tickets for being so popular. NO MENTION of the rapists walking away without arrests made, no mention of Bush's documented treasons on 911. Where are Alex's priorities? In selling YOU out so he can be wealthy like a bankster?, and have special rights over everyone else that drives drunk, or speeds? a big hero standing over our dead soldiers yelling, I told you so, I told you so, I was right, I was right. Again, understand: It is not by my will to deny open debate with America, it is Alex, and his demon buddy George Noory that denies out Humanity this right. And when people try, like Peggy, or Black men on Jewry, Alex lies cheats and steals our wills for further thefts. Ron Paul's family has millions taken from loyal Alex Jones fans. MILLIONS! Does Ron do commercials with that money highlighting the bushmob's plan to invade Afghanistan, dated two days prior to 911 for Enron? Of course not, wiser men would prevail to expose him as the charlatan charity raider he is regarding Health Care, Social Security, Public Schooling, earmarks.. It is unfair to measure Ron against corporate nazi zionist whores of MSNBC who willing, openly, kill American teen soldiers for criminal neocon gains, as an honorable gentleman's talk. Half honest People like Ron are extremely ignorant on the workings of our world. EXTREMELY. I joke here not. Evil is the deceived disguised - translated - evil people are always dumb.

Corporate America says no, Charlie Manson was a genius, but not, that most Americans are prone too easily to suggestive states where they can be made to believe

anything blindly. Think: what does, "bin Laden did 911"
mean anyway? You should know of what I'm trying
to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.
"Free Talk Live" is the best example for this: the
two hosts are unbelievably ignorant on just about
every single subject under the sun, but beat
CONSTANTLY, on how greatly wise they are as drop-outs.
You wouldn't believe any of them when they speak on
Freedom, if you simply understood, an innocent man
does not deserve to be in OUR prisons, or tortured.
Under any circumstances that Obama has excepted for
our excuses. Magna Charta. But in Alex's 'genius' mind,
he doesn't need to actually understand he is a for
sure bigot, (measures another unfairly in a group HE
concocts from blind hate or personal fear - typical
CONSERVATIVE and/or racist) who has no problems with
that at home, or at work. Provable in seconds by
OPEN DEBATE, but Alex ain't gonna take our calls
because, he can't for the lives of every People
person thought of here, admit he could have
something to learn, therefore, the NWO is
unstoppable in his brain washed cult of indifference
to Justice practiced for the benefit of all treated
fairly. Why? He's not wise enough to respect the great
minds of the audience, and I personally believe,
he doesn't even have the good judgment to own
a gun. (I mean, why wouldn't Alex find my stories
of OUR Justice system triumphing by my single hand at least
minimally beneficial to his blind cult followings? to not
hang up on me immediately while spewing lie after lie
on how I'm top secretly a dis-info NWO artist working
for Bush? or whose voice sounds too friendly to trust?
like he has done the last four times I've phoned -
Hey! I can be an asshole if you want - no prob.)
Perhaps it's near because, Alex Jones is blind, and
as such, could actually be found guilty in Texas for
murdering those two innocent black men shot
in the back with his approval to release the murderer
from a RIGHTFUL death sentence prosecution. "law of
Parties". He is a party to the crime, for he worked to
support the release of the FOR SURE, FIRST DEGREE MURDERER.
Sound like an America you could live with? I didn't
think so either. I wanna be Alex's Attorney. Texas is

a State of massive lawless corruption, as dire
incompetence in legal affairs where they OFFICIALLY
plan executions against innocent People not established
to have harboured criminal intent! With Jury Trials!!!!
!!!!!!!!!!!!FINING THEMSELVES GUILTY!!!!!!!!!!!!
While Alex does express murderous criminal intent,
and the Police chief calls him a good man for no
scary pressures. What the fuck is wrong in Texas
where they mess themselves like this regularly?
Imagine, while Bush with the Neocons escape, and
Zionist Israeli target to murder Christian School
girls OFFICIALLY, Alex doesn't want to have to pay
traffic tickets like the rest of US. What a douche bag
to tell he LEADS our Truth movement I say. Now, I'm
not saying he shouldn't contribute with the truths
WE SHARE, far from it, it's just he can't have our
cut off switch to silence our objections to his exposed
foolishness, and/or blatant criminality. I'll give him
a chance, for starters, to criticize any position I take
while we all publically call on ourselves for
assistance internationally. Like on his "buddy",
George Noory, deserving to be tried Publicly for the
traitor he is, and be formally executed after his day
in Court. Our Courts. Teen soldiers have been conned
to die by George Noory for the escape of the neocon
terrorists who committed 911 with Condi, Runsfeld,
Bush, Myers, Tommy Franks, and General Ahmad. AND
HAPPY GEORGE NOORY KNOWS IT - and cons with lies
naked to the ear of any who can listen or hit record.
A NAKED traitor to the cause of Liberty if we ever knew
one regarding the War Crime facts of Iraq. .And
Ian Punnet is an evil godless enemy Bush whore who
lies too to get YOU killed as the innocent soldier
forsaken so don't forget.. It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars
awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable
death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

/ / the FBI says no.. There is not a thread of
fact a zionist offers to form YOUR own mind in
respect for your rights being equal to ours. \ \

Who is the guy who keeps writing such things,, and
shouldn't he be recognized as Promotional to raise
all spirits towards a better future? I'm with him.

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes
http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

Alex Jones, the Slave, told US today that
he challenged Bush for eight years - Bushite
lying nazi traitor. Not only that, but he
also ridiculed those who wish to blame Bush
now for anything! Again, he doesn't want
Justice where bad guys can't steal from
ourselves unrepresented. Ron Paul is a
multi-millioniare, made rich by charitable
aid conned from Alex Jones' NWOers! Alex
Jones doesn't have a problem with that, we
do.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

-

Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Dashle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

http://www.iran-daily.com/1387/3324/html/east.htm#s359247

/ / International attorneys have filed war crime charges against 15 Israeli political and military officials including Ehud Olmert, Tzipi Livni and Ehud Barak. \ \

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We must demand open communications to bring back values WE ALL would agree to through polite debate. "Conservatives" don't want this Freedom idea expressed in general terms because, a "conservative" is universally, minimally. a bigot. Why? Life isn't like, their way, - then- all other opinion under the sun on how things actually get done. (Aka "socialist" traffic light repair men, or "liberals" who want to treat The People fairly). Or who we are as equals to our laws fairly practiced. Pay attention to what I am saying here. Liberals can be Dicks with a capital D too of course. But a Hannity couldn't survive 2 minutes with me speaking on his very real treasonous behavior in OUR public arenas. Behavior done to escape the 911 culprits from the long arm of the Law, with his conscious will of criminal deceit exposed, we all learn to better defend ourselves. And Shawn Hannity can't have that for ourselves, he takes too much money from ourselves as talentless by keeping US in the dark dying needlessly for traitors never elected publicly.

Who am I you ask? Johnny Law. at your service. Look me up with usenet to discover, we live in a world of idiots everywhere pretending to be somebody by lying. While I want US all to truly improve our condition by actually understanding how bad off we are by failing to respect ourselves for correction. Too many, know it alls, with not enough to know you need evidence to form a guilty verdict against an accused man or woman. Not according to CNN, CBC, MSNBC, Foxnews and the like however. Let's change this by supporting my challenge for top billing at the Coast to Coast radio show hosting. Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the view count? What is this business of a=a+1, the top secret, I'll go rhythm, that is way beyond our comprehension in it's scientific complexity? For Americans, okay, but the Human species just isn't this dumb.

While Zionists OFFICIALLY target Christian school
girls for mass murder, CNN instead reports that
bushite grunts attacked girls in Afghanistan, posing
as Taliban. I WILL every celeb at CNN to be arrested,
tried and executed for the reporting they have done
today without facts. Remember: the Taliban played no
part on escaping those responsible for 911, and opened
schools for girls, and were brought together on the
single purpose to defend women. Death to CNN reporters
to LIE for killing OUR school girls. I HATE zionist
enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US
officials from torturing but it does not ban any
of them, himself included, from sponsoring torture
overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants
the death sentence under Reagan's "War Crimes Act".
SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close
Police investigations immediately after
911 (obstruction), or that WE have video
of iron flowing like water that PROVES,
without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with
all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice like your deviant election rigger,
Ron Paul? Well, no wonder, Alex told US he's
into shooting innocent American People in
the back as a tyrant of evil, a white Devil
if you will. Kids too if you dare look in
his back yard for a copper. See? Now if Alex
doesn't allow US to speak, more and more will
understand to know why. I am a defender of
all that is right and just in this world,
because I don't need to lie like Alex does on
a huge host of issues. I'm more like Jessie
Ventura, in where I don't need/want to lie.

If I end looking foolish, (of which I like never truly am), it's a benefit, because that way, I've learned something. Alex knows everything already, and 'is always right'. Like I say Retarded. You weren't right by not understanding that the banker doesn't cover the loan. One example of easily hundreds. He's a typical, he knows it all, know nothing dumduk American. Hear him on health care speak as Ron Paul does, and know, I defeat them in under ten seconds. TEN SECONDS. This is why he hasn't in years, allowed me to speak more than five or six words. He's rather all America die, than admit he does NOT rule our 'Ocean of Truth'. I want the challenge of opposition through debate to PROVE my skills beyond reproach. Alex, every time, just hangs up on anyone who tries to improve our communications by factually speaking. Why? Because he IS TRULY deeply ignorant on what freedom or Justice means. Why we have law. What a consensus is. Allan Watt is severely disabled in this regard, another Alex Jones favorite. And this is why, Allan can't take calls openly either. He has jerked off with himself too long to quit now learning super basic precepts, for like Alex, he "knows" the inner workings of the 'genius' NWO elites. Not Law 101, not Bush, not Rumsfeld, Not Condi, not Torturers, not bank robbers, rapists, or even petty thieves. Allan Watt isn't a bad guy, he's just a chauvinist pretending he actually knows something, when his real disability is directly related to his absence in understanding understandings. Doubt is a near foreign concept. A challenge for Allan: can you get your 'genius mind' around the fact that Peter Powers did the London bombings, and not the Illuminati of 1463? and if not, why are we so dumb to our present plight that way? Don't get me wrong, Allen has much to offer, it just isn't the issue right now on saving our dying futures. Maybe I was too hard on Allen, he is really actually kinda cool. Alex Jones too has many incredible moments of ecstatic clarity increasing in all they joy of seeking enlightenment. .. Ok - but this is serious business that requires little dilly dally with what we'll have as a side dish in Paradise Lost. We are talking Human Lives have been destroyed by our inaction to remedy these failures to communicate

effectively. and.. Jeeze, the weight of my responsibilities, as just plain John, being a/the Legos Man - for like the Family and everythings, get's me never forgetting, all we got are these words left dormant from the power they truly possess in the minds of the wise asses. And.. here I am. I'm a Talker of Words looking to make a break in the NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches who openly advocate tyranny and oppression through mass murder of ourselves as the innocent left targeted defenseless. Enemies of Jews everywhere, the Zionist cares not for facts on who's Life it destroys for stolen gain by lying. That's why they target Jews, for fear the Light of Truth would expose them as the Nazis they are.

912. Traitor Bush closed 911 investigations immediately according to the FBI and Senator Daschle - Man, Mr. Bush Jr.'s WHORES sure are wicked evil letting the demon enemy of Life escape eh? - Bushite War LIFE Itself - 'Alpha company patrols the poppy fields.'

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 12:25:31 UTC
From: Johnny America - No evidence against an accused is US being truly abused <nomailhere000@hotmail.com>
Message-ID: <i580p4tspqtk4sn2llnk142ils4b1fskek@4ax.com>
Source record: 17736
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Private Banking Made Simple

http://www.megaupload.com/?d=0K03GAVY
http://www.mediafire.com/?xo9w32zmfox

I must be on crazy pills
http://www.uruknet.de/?p=m51615&hd=&size=1&l=e

/ / Well, why haven't the banks just returned
the money?... \ \

People who know they defeat all "Conservatives"
in seconds with indisputable simple logic, will
eventually rule the Universe, if CNN, CBC, and
Alex Jones allow open communications on what is
understood by all as high acts of treason openly
committed without a defense of smart people
explaining why/how we are being rooked as idiots
on purpose. Crazy man, crazy. Oh.. anda..
justwondrin', would be the first name Reza be that
of the feminine or, echem.. masculine? Just
curious on language that's all..

Oh, logic like, "Buying in bulk is cheaper."

-

Godsmack - I Fucking Hate You
http://www.youtube.com/watch?v=FiPtHkfDXus

Hey! Johnny's new theme song playing when
I be bagging the bushite zionist whores of
the demon antichrist, Our Mr. Bush Jr. Bush
closed 911 investigations, Bush lied about
Saddam not letting inspectors in, Bush never won an
word fairly in his entire war crime life of
game rigging with naked deceit and betrayal to
the cause of Man, die bushite die. Rock on
my friends, rock on.

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why
bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what
any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

LIFE IN PRISON FOR AMERICAN VICTIMS

[godless bushite enemy] Marines ignore Afghan opium so as not to upset
locals
http://rawstory.com/news/2008/Marines_ignore_Afghan_opium_so_as_0507.html

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the
deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate
cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

Worst Person in American Broadcast Journalism
http://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel

This is like, so profound. Gibson's condemnation
is directly aimed at his own ideas of the subject
he has no grasp of. Wow. profound. See though..
this "popular" FoxsNews celeb has zero interest in
helping America succeed to defend freedom through
lawful actions, because he has no sight of a better
world blindly destroying itself. Hey Gibson! why
don't you try and be a good guy for a change! No
joke. Wow. Profound.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-children-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty
verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Ten years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all
around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,

executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be
an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men.

-

(pet bed cat trees...)
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would
have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors
in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not
Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'
dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

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U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministerï¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow
/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change

this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&pla
ynext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3

http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the
coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&
scoring=d&

Huh? "at last been disarmed..." ? How does he figure?
The equation hasn't changed. Example: The same
unaccounted anthrax, (that was disintegrated into ash),
still is not able to be measured as completely accounted
for, (never could be), but this bushwhoring war crime
apologist, tells US, it was only though the lawless
murder of our good friends and family for countless
generations, that he now attests without reason, or
evidence, to find Iraq in "fact" disarmed of it's still
nowhere to be found, weapons of mass destruction. (An
irrational reason he pronounced previous in corporately
broacasted public support of instigating heinous war
crimes against our humanity under the leadership skills
of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron.
And, the Iraq war is a war crime. But Ron, the
Fascist, doesn't want THESE FACTS uttered. Why?
Because wiser men would prevail, wiser men like

me who understand buying in bulk is cheaper. Those like Christ who understand, who KNOW, the banker doesn't cover our loans - so why give them as much as a taxed red penny?, let alone trillions as officially unaccounted for? They are stealing the cash Ron. Ask yourself: Why has Alex Jones forbidden his bushwhore cult from understanding Bush doctored the NIE?, or of iron flowing like water from the towers? Because wiser men would prevail and he can't have that. He called shooting innocent men in the back, an act of liberty. I, an actual god, unlike Alex, lie near never, but maybe to myself when I'm lonely. Alex yes will tell you rapists are free to do what they will in Texas to American children, un-arrested, but he won't mention it when the police chief is with him on air, talking about how he'd like to be exempt from traffic tickets for being so popular. NO MENTION of the rapists walking away without arrests made, no mention of Bush's documented treasons on 911. Where are Alex's priorities? In selling YOU out so he can be wealthy like a bankster?, and have special rights over everyone else that drives drunk, or speeds? a big hero standing over our dead soldiers yelling, I told you so, I told you so, I was right, I was right. Again, understand: It is not by my will to deny open debate with America, it is Alex, and his demon buddy George Noory that denies out Humanity this right. And when people try, like Peggy, or Black men on Jewry, Alex lies cheats and steals our wills for further thefts. Ron Paul's family has millions taken from loyal Alex Jones fans. MILLIONS! Does Ron do commercials with that money highlighting the bushmob's plan to invade Afghanistan, dated two days prior to 911 for Enron? Of course not, wiser men would prevail to expose him as the charlatan charity raider he is regarding Health Care, Social Security, Public Schooling, earmarks.. It is unfair to measure Ron against corporate nazi zionist whores of MSNBC who willing, openly, kill American teen soldiers for criminal neocon gains, as an honorable gentleman's talk. Half honest People like Ron are extremely ignorant on the workings of our world. EXTREMELY. I joke here not. Evil is the deceived disguised - translated - evil people are always dumb.

Corporate America says no, Charlie Manson was a genius, but not, that most Americans are prone too easily to suggestive states where they can be made to believe

anything blindly. Think: what does, "bin Laden did 911"
mean anyway? You should know of what I'm trying
to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.
"Free Talk Live" is the best example for this: the
two hosts are unbelievably ignorant on just about
every single subject under the sun, but beat
CONSTANTLY, on how greatly wise they are as drop-outs.
You wouldn't believe any of them when they speak on
Freedom, if you simply understood, an innocent man
does not deserve to be in OUR prisons, or tortured.
Under any circumstances that Obama has excepted for
our excuses. Magna Charta. But in Alex's 'genius' mind,
he doesn't need to actually understand he is a for
sure bigot, (measures another unfairly in a group HE
concocts from blind hate or personal fear - typical
CONSERVATIVE and/or racist) who has no problems with
that at home, or at work. Provable in seconds by
OPEN DEBATE, but Alex ain't gonna take our calls
because, he can't for the lives of every People
person thought of here, admit he could have
something to learn, therefore, the NWO is
unstoppable in his brain washed cult of indifference
to Justice practiced for the benefit of all treated
fairly. Why? He's not wise enough to respect the great
minds of the audience, and I personally believe,
he doesn't even have the good judgment to own
a gun. (I mean, why wouldn't Alex find my stories
of OUR Justice system triumphing by my single hand at least
minimally beneficial to his blind cult followings? to not
hang up on me immediately while spewing lie after lie
on how I'm top secretly a dis-info NWO artist working
for Bush? or whose voice sounds too friendly to trust?
like he has done the last four times I've phoned -
Hey! I can be an asshole if you want - no prob.)
Perhaps it's near because, Alex Jones is blind, and
as such, could actually be found guilty in Texas for
murdering those two innocent black men shot
in the back with his approval to release the murderer
from a RIGHTFUL death sentence prosecution. "law of
Parties". He is a party to the crime, for he worked to
support the release of the FOR SURE, FIRST DEGREE MURDERER.
Sound like an America you could live with? I didn't
think so either. I wanna be Alex's Attorney. Texas is

a State of massive lawless corruption, as dire
incompetence in legal affairs where they OFFICIALLY
plan executions against innocent People not established
to have harboured criminal intent! With Jury Trials!!!!
!!!!!!!!!!!!FINING THEMSELVES GUILTY!!!!!!!!!!!!
While Alex does express murderous criminal intent,
and the Police chief calls him a good man for no
scary pressures. What the fuck is wrong in Texas
where they mess themselves like this regularly?
Imagine, while Bush with the Neocons escape, and
Zionist Israeli target to murder Christian School
girls OFFICIALLY, Alex doesn't want to have to pay
traffic tickets like the rest of US. What a douche bag
to tell he LEADS our Truth movement I say. Now, I'm
not saying he shouldn't contribute with the truths
WE SHARE, far from it, it's just he can't have our
cut off switch to silence our objections to his exposed
foolishness, and/or blatant criminality. I'll give him
a chance, for starters, to criticize any position I take
while we all publically call on ourselves for
assistance internationally. Like on his "buddy",
George Noory, deserving to be tried Publicly for the
traitor he is, and be formally executed after his day
in Court. Our Courts. Teen soldiers have been conned
to die by George Noory for the escape of the neocon
terrorists who committed 911 with Condi, Runsfeld,
Bush, Myers, Tommy Franks, and General Ahmad. AND
HAPPY GEORGE NOORY KNOWS IT - and cons with lies
naked to the ear of any who can listen or hit record.
A NAKED traitor to the cause of Liberty if we ever knew
one regarding the War Crime facts of Iraq. .And
Ian Punnet is an evil godless enemy Bush whore who
lies too to get YOU killed as the innocent soldier
forsaken so don't forget.. It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars
awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable
death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

/ / the FBI says no.. There is not a thread of
fact a zionist offers to form YOUR own mind in
respect for your rights being equal to ours. \ \

Who is the guy who keeps writing such things,, and
shouldn't he be recognized as Promotional to raise
all spirits towards a better future? I'm with him.

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes
http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

Alex Jones, the Slave, told US today that
he challenged Bush for eight years - Bushite
lying nazi traitor. Not only that, but he
also ridiculed those who wish to blame Bush
now for anything! Again, he doesn't want
Justice where bad guys can't steal from
ourselves unrepresented. Ron Paul is a
multi-millioniare, made rich by charitable
aid conned from Alex Jones' NWOers! Alex
Jones doesn't have a problem with that, we
do.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

-

Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Dashle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

http://www.iran-daily.com/1387/3324/html/east.htm#s359247

/ / International attorneys have filed war crime charges against 15 Israeli political and military officials including Ehud Olmert, Tzipi Livni and Ehud Barak. \ \

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We must demand open communications to bring back values WE ALL would agree to through polite debate. "Conservatives" don't want this Freedom idea expressed in general terms because, a "conservative" is universally, minimally. a bigot. Why? Life isn't like, their way, - then- all other opinion under the sun on how things actually get done. (Aka "socialist" traffic light repair men, or "liberals" who want to treat The People fairly). Or who we are as equals to our laws fairly practiced. Pay attention to what I am saying here. Liberals can be Dicks with a capital D too of course. But a Hannity couldn't survive 2 minutes with me speaking on his very real treasonous behavior in OUR public arenas. Behavior done to escape the 911 culprits from the long arm of the Law, with his conscious will of criminal deceit exposed, we all learn to better defend ourselves. And Shawn Hannity can't have that for ourselves, he takes too much money from ourselves as talentless by keeping US in the dark dying needlessly for traitors never elected publicly.

Who am I you ask? Johnny Law. at your service. Look me up with usenet to discover, we live in a world of idiots everywhere pretending to be somebody by lying. While I want US all to truly improve our condition by actually understanding how bad off we are by failing to respect ourselves for correction. Too many, know it alls, with not enough to know you need evidence to form a guilty verdict against an accused man or woman. Not according to CNN, CBC, MSNBC, Foxnews and the like however. Let's change this by supporting my challenge for top billing at the Coast to Coast radio show hosting. Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the view count? What is this business of a=a+1, the top secret, I'll go rhythm, that is way beyond our comprehension in it's scientific complexity? For Americans, okay, but the Human species just isn't this dumb.

While Zionists OFFICIALLY target Christian school
girls for mass murder, CNN instead reports that
bushite grunts attacked girls in Afghanistan, posing
as Taliban. I WILL every celeb at CNN to be arrested,
tried and executed for the reporting they have done
today without facts. Remember: the Taliban played no
part on escaping those responsible for 911, and opened
schools for girls, and were brought together on the
single purpose to defend women. Death to CNN reporters
to LIE for killing OUR school girls. I HATE zionist
enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US
officials from torturing but it does not ban any
of them, himself included, from sponsoring torture
overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants
the death sentence under Reagan's "War Crimes Act".
SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close
Police investigations immediately after
911 (obstruction), or that WE have video
of iron flowing like water that PROVES,
without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with
all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice like your deviant election rigger,
Ron Paul? Well, no wonder, Alex told US he's
into shooting innocent American People in
the back as a tyrant of evil, a white Devil
if you will. Kids too if you dare look in
his back yard for a copper. See? Now if Alex
doesn't allow US to speak, more and more will
understand to know why. I am a defender of
all that is right and just in this world,
because I don't need to lie like Alex does on
a huge host of issues. I'm more like Jessie
Ventura, in where I don't need/want to lie.

If I end looking foolish, (of which I like never truly am), it's a benefit, because that way, I've learned something. Alex knows everything already, and 'is always right'. Like I say Retarded. You weren't right by not understanding that the banker doesn't cover the loan. One example of easily hundreds. He's a typical, he knows it all, know nothing dumduk American. Hear him on health care speak as Ron Paul does, and know, I defeat them in under ten seconds. TEN SECONDS. This is why he hasn't in years, allowed me to speak more than five or six words. He's rather all America die, than admit he does NOT rule our 'Ocean of Truth'. I want the challenge of opposition through debate to PROVE my skills beyond reproach. Alex, every time, just hangs up on anyone who tries to improve our communications by factually speaking. Why? Because he IS TRULY deeply ignorant on what freedom or Justice means. Why we have law. What a consensus is. Allan Watt is severely disabled in this regard, another Alex Jones favorite. And this is why, Allan can't take calls openly either. He has jerked off with himself too long to quit now learning super basic precepts, for like Alex, he "knows" the inner workings of the 'genius' NWO elites. Not Law 101, not Bush, not Rumsfeld, Not Condi, not Torturers, not bank robbers, rapists, or even petty thieves. Allan Watt isn't a bad guy, he's just a chauvinist pretending he actually knows something, when his real disability is directly related to his absence in understanding understandings. Doubt is a near foreign concept. A challenge for Allan: can you get your 'genius mind' around the fact that Peter Powers did the London bombings, and not the Illuminati of 1463? and if not, why are we so dumb to our present plight that way? Don't get me wrong, Allen has much to offer, it just isn't the issue right now on saving our dying futures. Maybe I was too hard on Allen, he is really actually kinda cool. Alex Jones too has many incredible moments of ecstatic clarity increasing in all they joy of seeking enlightenment. .. Ok - but this is serious business that requires little dilly dally with what we'll have as a side dish in Paradise Lost. We are talking Human Lives have been destroyed by our inaction to remedy these failures to communicate

effectively. and.. Jeeze, the weight of my responsibilities, as just plain John, being a/the Legos Man - for like the Family and everythings, get's me never forgetting, all we got are these words left dormant from the power they truly possess in the minds of the wise asses. And.. here I am. I'm a Talker of Words looking to make a break in the NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches who openly advocate tyranny and oppression through mass murder of ourselves as the innocent left targeted defenseless. Enemies of Jews everywhere, the Zionist cares not for facts on who's Life it destroys for stolen gain by lying. That's why they target Jews, for fear the Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so, why not demand the arrests of those who broke the truce, and murdered innocent people indiscriminately, on plans more Jews would die for cash profit? Profit paid for by zionist amerika? - the false imprisoning torture and rape center for Neocon Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

/ / This has been a central theme of the war in Gaza: not that hundreds of innocent people were killed, not that over 5,000 were horribly injured and not the sky-high human and monetary cost of wrecking homes or razing infrastructure. \ \

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival-in-brussels/

"We believe there were dozens of IRGC personnel in the Gaza Strip during the war," an Israeli source said. "Some were killed; others went into hiding, and others escaped."

See? the demon enemy of God speaks no evidence as a TRAITOR to every Jew. A terrorist nation that still steals humanitarian aid in

our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Where are the Americans asking for the
formal arrest of Bush for high treason?
Whoring for Alex Jones's contempt for REAL
Justice? The ignorance of all American
talk radio hosts speaks for itself. NO
knowledge on why acts of high treason, are
crimes against every American. The bushmob
doctored the NIE, and Alex doesn't want
Americans to know, because if they did,
they ask, why does Alex do everything he
can to escape those personally responsible
for 911, while then asking for money to
continue his fight against freedom in
America. Again how much money do we have to
pay Ron Paul or Alex Jones before they
will allow the knowledge of the Iraq war
against Human will is criminal? How much?

Obama! feel free to call
on me to help out with a plan for judicial
actions. That offer goes out to everyone in
Palestine, Canada or Britain too. Russia,
let's help out these fools by freely
communicating, what say you? Justice
for all is freedom to be. The Israeli cop
killers must be brought to justice for war
crimes. Those cops, were cops. And I,
am a man.

Alex Jones Rocks!

Now Alex has problems in "my" mind because I am
an ACTUAL genius, and he is generally, an idiot.
Today, he did one of his usual commentaries, however
this time, he was pretty honest with himself, and
his love for Ron Paul. Ron Paul sells incompetence,
and Alex corrected correctly!. that a.. sorry Ron
but these banksters know they're robbing us as
undefended blind men essentially. That's what I'm
talking about!! Look, Ron Paul can be a dumb Ass,
although, he's still not all that bad a guy. A Dumb
guy on things like economics sure, Justice, warfare,

Health Care, Social Security, ect. ect. but still.,
like a child learning of why the sky is funny
blue, isn't all that bad a guy really. He's
certainly not a war criminal, like Bush or
Rumsfeld are. Doing 911 then sanctioning torture.
While Neocons Champion sending illiterate American
teens for death as war criminal. Think about it.
Maybe he is..

-

ï¿½We have all these documents that are now
publicly available that prove that these
methods of interrogation were intentionally
ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy
like Willie Brand "the right" to RANDOMLY kidnap
men, women, or children, and torture them to
death for sadistic pleasure with his faggot
Capt, Christopher Beiring. (I think that's
how it's spelt). But anyway, this is the truth.
A bushite is a godless Zionist whore of Nazi
evil, an enemy of America, who wars YOUR Freedom
with criminal "excuses", for refusing to support
the arrest of those responsible for 911. A
TRAITOR, and could be wannabe rapist, robber, or
911 mastermind ringleader. Torture is illegal,
and warrants the death sentence, according to,
Reagan's "War Crimes Act". Some only suggest,
that this was why someone tried to kill him as
honorable. Death to the torturers of our
innocent families, torture they do without
apology as Zionist Military "Judges". Instead
today, where they get salaries paid in the
billions by the zionist giving nation of,
a-mirror-kay, echem, America. Johnny's America.
A nation where Justice will rule for the favors
of all treated equitably with or without you.
Honor me in company my friend. We have no rivals.

"they do not understand, the private banker
never covers the loan. Never does a private
banker reach into it's pocket to borrow US
to begin with - so as a consequence, the
bankers have just pocketed all the 'free'
loot for nothing, TRILLIONS, and are not
saying why should they help anyone else
up with charity?" Then went on to say, it
wasn't any of our business with what they
did with the money. (But for to cover criminal

fraud in the derivatives market, where
the true value of said commodities were
backed by ZERO capital. ZERO DOLLARS. WORTH
NOTHING. So, think about who's truly giving
it always here until Johnny, the man who
came out of nowhere, arrived to explain
everything in five or six minutes.

Support Johnny America for Coast to Coast
Radio Host!

-

Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoo
t-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen
for death by war crimes trial more like. Death to
the criminal zionist enemies of Humanity. Zionists who
falsely accuse without evidence to respect our rights,
like TV corporated Americans who treasonously LIE,
'bin Laden did 911'. Enemies of Freedom for our
Humanity.

[JEWISH!] Arrest warrant: Ehud Barak
http://www.wanted.org.il/ehud_barak_en.htm

/ / For violations of the Rome Statute
& 4th Geneva Convention \ \

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..

let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our
times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for
'lawless' grunts of ungodly action against
Life as we live it. Targeting school kids
deserves death sentences, don't you think this
value is what every soldier should hold proud
with Johnny in America? In Israel? In
Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

This post was passed to near everyone in our Secret
Service defending Obama. Let US demand Justice for
the Victims of 911, by warranting for the arrest of
every Neocon Nazi Zionist pirate of OUR Jewish faith
for Public trial on LYING for War Crimes against
our dying Humanity. War Crimes against God.

A ZIONIST LIAR'S TRUCE

/ / live images of an Israeli helicopter hovering
above the city and dropping its white phosphorous
bombs on the city \ \

Again, the Zionist deserves to die by public trial
today to defend the Jewish faith. Look at usenet.
These demonic enemies go, 'yeah, Hamas broke the
truce', they do it to kill you. To steal the lives
of innocent Peoples to profit off our deaths as
victim.

Zionists are Satanic Demon Liars of Satan

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed

Jews for money. They starve Jews in Israel
to attract more charitable aid they can use
elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of
the Synagogue to Satan!!

"We also need a massive overhaul in Our news channel
prioritizing, including to add censorship free, open line
public communications. Done to gain value in learning from
the art of conversations. We need still to appreciate the
values of a free society where Justice is above all, the
measure of our success to communicate openly."

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and
still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

-

The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as
evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,
are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among
our brothers and sisters. I mean for Christ's
sake Tom, THEY ADMIT to sadistically
targeting our children for MURDER - as some
kinda Satanic demon whore to Pure Evil - aka.
Wanted War Criminals for Public Trial. Just
as the Nazis were for similar outrages. Let's
hope men of America are least half they were
then, but we are suspecting, they will as of
usual, balk as cowardly slaves to the private
banker man ruling their minds, it's a, no
wonder. Where is there that purpose striving
for a greater future living in a just society?
Where is the Christ in their Christianity?
to financially support the arming of such
unlawful Zionist killings in silence against
Innocent Christians?

Free Radio International Broadcasts Alive!

Johnny Justice for Coast to Coast radio host.

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's
verdict, if none is offered as in respect
for yourself as worthy the title of free
men? I ask as your self? Or are you as
the cowards of most in the American military
who refuse to speak for the arrest of those

who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke the truce, and Israeli started this by stealing innocent peoples homes, then imprisoning ourselves, the victims, in a death camp for indiscriminate slaughter. While they continue to STEAL OUR CHARITY by breaking truces. What is it that YOU can't picture?

"The view from the other side, that the Qassams are a retaliation for the siege that starves the one and a half million inhabitants of the Gaza Strip, [a prison death camp,] was not mentioned at all."

Masada legend galvanises Israel
http://news.bbc.co.uk/2/hi/middle_east/7830416.stm

/ / they committed collective suicide - men killing their own families, afterwards each other, until one [evil zionist liar] remained to kill himself. \ \

ISRAELI IS A THIEF WHO CAN'T SPEAK OPENLY IN DEFENSE OF OURSELVES IN OTHER WORDS? That is right. They, as documented criminal, lose every debate personally since before the dawn of Civilization because their position is clearly unsound. They are criminals who murder People in hate for a freed Humanity. They OFFICIALLY steal Peoples homes in that country didn't you know they proudly proclaim it so? And steal humanitarian aid from starving children. Targeted to murder children specifically as publicly confessed, 'it is Hamas WE blame', not them as demonic child murderers. Hideously evil as ungodly sadistic savages. Enemies of YOU, enemies of them, and enemies of me, the King of Jews Christ fellow from beyond the grave. They are so evil to God and Man, they tarnish everyone of US to not win justice sooner by blaming the actual bad guys. Justice is Freedom.

/ / Those white phosphorus shells used on the Gazans are made in the USA according to Jane's Defense. \ \

Again, these peoples are not Jews. Being Jewish is a religion. These thieves of God are Satanic in their LIES to betray the common trust in our words, that bind all worlds to victory, called freedom universal. Even tales of the Devil have him keep his word, with verses specifically condemning the self to damnation for targeting the innocent for death. God's the Word. Every word inside a fool's paradise. Including the periods. Not as like, I'm playing a word game, but that it in wonder, is all strangely here. Example: The Universe as it has existed always, is not separate from our 'pauses', or faulty drawn conclusions. The universe, in one sense, was as good as anytime, created 6000 years ago. AS TOO 50 billion. You say, impossible, I say no, study quantum physics, and know, I live this.. our existence is not scientifically separate from the timeless nature of consciousness, proven as not only theoretical, but actual. That is a first step at developing a REAL relationship with the living Universe if you want to as like an artist does - that TOO! can be just as thought static in it's orderly constructions for Atheists. (An Atheist is still mostly a fool here however.) Overall, for any, it's sorta simple: Life has left YOU in charge of YOUR fate. Now, do well to make something of this being as eternal Life reaching for balance, as your body does, and good cops do when bringing the bushmobsters to Justice. By Israeli calling for more murder against the innocent of your mind as racists and bigots they are openly, is still shadows of YOUR mind, YOUR WORLD.. get it, got it? God is in genius to set Life as this, as like, nowhere existing, but for as yourself within. Will you speak out for the Justice denied Humanity?, or not you? Atheists can be Just too!, but generally lose it on not understanding the intelligence of order is way beyond what they dream up with assumptions. All anyone has to do is ask themselves, who do you mean "God"? Atheists are ridiculous!, but, to each his or her own, we are on a path here, believe what

you want to believe. This is not a faith
initiative I'm bringing by keeping this real,
I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder
Jews around the world for stolen money is
seriously evil as criminal. What do you think?
Let US have a open line discussion on this
indivisible matter of rights to all as equals
before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM"
we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

ï¿½Main actions: Israel targets hospitals, United
Nations premises, Press offices, theaters and densely
populated buildings in west of Gaza. Additionally,
people are being used as human shieldsï¿½

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed
Jews by breaking truces with a prison death camp,
cause look at all the free American Welfare money
we can steal through kicking-back AIPAC members in
Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line
calls on the war crime enemy propagandist,
The Chorus Radio Network. CJOB STEALS millions
from Manitoba each year, and refuses all calls
for honesty in governing. They are actual
CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal
who will be going to prison, is the only person
on Earth that has publicly okayed Israeli Nazi
to target murder Christian school girls. Canada,
join me in demanding Harper's Public trial as a
war criminal. Prison for Harper who took a

honorable soldier who stated he refused to commit
war crimes against innocent civilians, and placed
him without trial in prison. Without warrant for
arrest. Harper, the Nazi Appeaser, is a War
Criminal standing against the Queen.

"Or is this another, popular amerikan past time,
of, who cares for the facts, we are at war with
God and Christ now?" Die bushite die Christ always
says against lawless torturers as mass murdering
thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest
of the Judge and prosecutor for being openly
evil demons, as TRUE enemies to freedom in
America. But guess what? Americans will refuse
to even phone Alex Jones, or George Noory
to be hung up on. Just refuse as brain dead
zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic
of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?
Like multi-millionaire Ron Paul, who gave the
fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the faggot owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty

International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting
to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.
They will rob and kill US all my INNOCENT friends
as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

Google have attacked US again as Evil doers..
They have again destroyed my writing with war
criminal intent to deny these truths as men they
could never face me, because they are not. They
STEAL our voices.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil

as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unb
alanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the

days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews
like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the

eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was
137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying
freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the

free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for
senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

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I Want My Bailout Money by Michael Adams the Health Ranger
http://www.youtube.com/watch?v=dnT21hmlT4o

Breakdown Dead Ahead
http://www.youtube.com/watch?v=yFCnVC2C8As&feature=related

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Simple Common Sense for Mankind

/ / Israel has admitted HAMAS kept the cease
fire; and that Israel broke it, then unleashed a
total starvation blockade on Gaza followed by
flaming death from the sky aimed at schools,
hospitals, ambulances, and children, and you
dare call the people opposed to such barbarity
a "mob?" \ \

Zionists are evil people who pretend they
are honest, when lying directly to everyone.
Blitzer reports Hammas broke the truce, he
is lying to continue the murder of innocent
peoples. Understand: Israeli Nazi state they

will continue to murder our innocent Humanity
until the rockets stop falling on Jews. Yet,
they broke the truce, and murder Jews routinely
with reckless abandon. Jews from the Bible as
of "nigger" Ethiopian, are what the Zionist
hate when warring GOD for apartheid, apartheid
that is Humanity in Gaza. A zionist is a war
criminal who speaks not against the neocon,
but against Innocent Humanity as YOUR enemy.

Livni: Gaza truce would give Hamas legitimacy

As they always do because they are dishonorable
murderous nazi thieves of God as Just cause is.
I am, and YOU are, you just maybe don't know it
yet, or if ever. A zionist serves Satan to escape
the neocon terrorists from their ungodly crimes
on 911.

http://desertpeace.wordpress.com/2009/01/12/gazatoon-of-the-day-blaming-the-victim/

Ron Paul:
US Will Be Rightly Blamed for Israeli Killings
http://www.youtube.com/watch?v=6C756NOPyDA

Not the Nazi Israeli?

The guilty party are those who advocate these
mass murderers of innocent peoples with
deliberate lies, like from Blitzer. Blitzer
will be tried, and executed a war criminal
for stating Hamas broke the truce., Where,
only two minutes earlier, he learned, that
it was his Nazi partners. DEATH SENTENCE.
It was on TV. BUT SEE? Ron Paul, the Libertarian,
ain't going to be honest here. He'll lie cheat
and steal Humanity's voice for Justice - like
he did with OUR money. A typical Libertarian
like Alex Jones who wants to blame "socialists",
"Liberals", aka, all of innocent America.
Blitzer is war criminal, who makes his own
discussions. As is Ron. What an enemy to not
mention the truce. THINK: IT IS THE ISSUE. But
Ron plays the dummy to kill more with contempt
for Freedom. Ron Paul, the bigot, asked,
'should we be doing this'? SEE? it's not first
degree mass murders, no, according to Ron Paul,
it's argumentative that indiscriminate mass
killing is a good thing really. Remember,
Ron Paul does not support arresting those
who committed mass murder on 911 either.
Or those who STOLE TRILLIONS. Or lawless Bush,

the ACTUAL AntiChrist enemy of God. Ron Paul
will watch America die for a stolen dollar.
And Alex Jones will refuse all calls to label
him good guy like himself warring order
to our universe for it.

Israel is [NOT?] responsible for these childrens death
http://uk.youtube.com/watch?v=Y9PIZQqIep4&feature=email

Ron Paul "When we pick sides, we make it worse"

He also took our millions donated for freedom
fighting away for his family, but not our own
as dying innocent victims giving. Pick a side.

Remember: Sadistic authoritarian George Noory
is a very real DEMON of Satan, who again,
openly tells US, he wants to murder our
species as the innocent forsaken, and Alex
Jones doesn't hear a problem with that
either. Love the bushite blindly, and
they'll kill US for a dollar sukka.

Alex Jones is like the retarded brother we
can't help but love because we're human. He
is still retarded. And George Noory is still
seriously evil as a traitor to the cause of
Freedom in America. And Ron Paul is still
slamming Ron Paul.

Ron Paul "Israel can not act without
Washington's approval"

So, it is Ron's fault then by not mentioning
the truce?, or as that, innocent People are being
indiscriminately murdered in a death camp that
he figures is argumentative? that innocent
People are dying as targeted for mass genocide?
Or is it the Ron who states YOU are to blame
instead of himself for being there, not saying
anything? HEY RON! Can you hear me now!

-

Contribute to our rise for the popular will

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they STEAL OUR

CHARITY. What is it that YOU can't picture?

Hi. My name is King Johnny.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

-

/ / The targeting of civilians, whether
by Hamas or Israel, is a war crime. \ \

They are targeted by Obama who suggests
there is an argument to be made here. There
isn't. Nazi Israeli DEMON LIARS broke the
truce to kill Jews for money. They are godless
enemies of Humanity. So it isn't that we are
pro-Palestinian, it is that we are pro-Human.
Zionists DESERVE to die, before US, the innocent,
they target for murder for stolen cash gain.
Like Obama has promised to do for AIPAC. But
what about the rest of US 6 billion plus Obama?
Who is it of US innocent folks do you wish to
MURDER, or torture next as a Zionist war criminal
for Satan Obama? Torturing kids is popular in
Israel, tell US Obama, which American father will
have his children tortured, or murdered
sadistically by yourself as a whore for Nazi
Israeli? tell us, we're not waiting.

The Chosen Bad Example

Zionists Destroy Our Homes as Satanic
http://www.youtube.com/watch?v=mo2HW4T7wK4&feature=related

When I see the women and her child, left outside
while they sadistically destroy her meager gains,
I grow weary with ourselves for not speaking right.
Nazi Israeli are committed to deny US our God given
rights as Innocent persons to speak freely for Justice
realized. All because they STEAL our Lives for monetary
gain. It is our reality, give it or take it, YOU LOSE.

Then.. Hammurabi founded Civilization.

I go concerned for any hesitations of condemnation by
Obama. It's like, he's talking some jive about
how now he'll NOT let the words of Hamas reach
his ears. Being against war criminals, doesn't make
you pro-Hamas, necessarily, it means your against
war crimes to defend the lives of ourselves respected.
Remember: He told US earlier during the campaign that
he wouldn't fear speaking to anyone, Hamas especially,

because he was confident he could win the discussion on Liberty, by principles that unite all free men. Now, he has promised the FBI's Most Wanted AIPAC, he will pretend to not hear any calls for fairness as all parties united by common cause. Johnny Who? Where did you go Obama? You were here, then.. pooof! you vanished into the loving shackles of convicted/ing criminals is a mass, "WE ARE TRAITORS TO JUST CAUSE" organized war crime outfit, dedicated to deceiving the Public by lying. I am not Lying. I'm not saying I hold his associations as a measure of himself, I am concerned with him stating, he will not hear our cries for Justice, as then AIPAC cheered. I was as freaked out about it as you maybe yourself now, believing it as possible. Check it out for yourself, and wonder, just "who" is this person they tell us they're are going to take for as dying fools? I mean look at what happened to what's his name, when he sided similarly the same in error as hugely criminal? Come on be honest with us son, "Are you on drugs?". Maybe he's just been stressed with all of everything he is heaped to follow on, NOT to know by Blitzer, that Israeli broke the truce to kill more Jews for money, and, also STEAL innocent Peoples Homes while saying, "they are God's Chosen". Yeah, chosen for, "The Bad Example", of how Jews are left undefended by these grave robbing war criminal nazi forces. As the King of Jews, I call for Public War Crimes trials of the entire bushmob as terrorists, and their supporters for lawless tyranny.

People are Coming to Town. Justice for All Coast to Coast radio broadcasts all, until we have secured the neocons in a prison cell awaiting the treason trials.

We are Good to Go. Rise Up for innocent Life, or don't and see where it'll get you in the end.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

Nazi Israeli STEAL Peoples Homes without apology, as a function of their SATANIC government, while collectively bombing the INNOCENT victims who die because of it.

Gaza 2009 - Operation Cast Lead
http://www.youtube.com/watch?v=hFEiOfLUfzY

Again, they are Satanic here because they THREAT to tell you, yeah, Zionists are casting the leads for the real mass murder scenes - Justice denied Humanity. God doesn't exist to defend yourselves

from war criminals for Satan.

War crimes trials with public executions
will commence against ever GUILTY zionist
living to lie that Hamas broke the truce,
that Georgia was attacked without provocation,
(again, CNN are not 'accidentally' conning
US here). And trials for every last living
bushite bomber, rapist, and torturer -
death to the bushite, the true traitors who
war against freedom for America, traitors who
war Innocent Humanity for the escape of the
neocon zionists.

-

Both parties cheerlead loudly for Israel's war Against Humanity
http://www.salon.com/opinion/greenwald/2009/01/08/israel/index.html

Death sentences MUST be willed by Christians for war crimes.
Death to the bushite, death to the enemies of God and Man.

-

For the Great Truths. We Stand United

/ / This option is also regarded
as a non-runner as the US would certainly veto that
suggestion. \ \

No no no no. What you do is investigate who this
the "US" person is as the GUILTY party my friends.
The facts have spoken for ourselves without contention.
And while we're at it, try to figure who that "Army
says.." person is too, we need to know who these
traitors are who hide their names backing war crimes
to continue. The Enemies of Civility, they are
enemies of US all my innocent friends, enemies of US
all.

white phosphorus shells on Gaza
http://www.youtube.com/watch?v=HPY2M6IxDRA&feature=related
listen to the inflection of voice near the end of this..
the mind of a delinquent 7 or 8 year old.. This phenomenon
is pervasive, and illustrates some cognizant short coming in
Calcium or Zinc somethings. However, IT IS THERE. Normally, as
an Expert on Psychiatry, I dismiss the whole notion of
Psychiatry as I intimately know it as pure bunk wacky,
however the study of something here is needed if we're
ever going to convince ourselves dying indiscriminately
this way sucks. As the innocent for profit we pay for,
with lies sold without Public defense of mass murdering
demon traitors to the cause of US falling victims. God

says their Satanic, I just say they are criminals. War criminals easily convicted for murdering our loved families. They have no remorse for all that have been murdered already.. Livini should be on her knees begging our forgiveness, but she's not because she couldn't care less for any Jews, especially those she don't have imprisoned under threat in Israeli 'society'.

It's a 'bad' thing. nnNo.

Israel bomb attack Gaza Civils Palestinians 27/12/2008 launches missile attacks on 27 Dec 08
http://www.youtube.com/watch?v=tQLDBujnwEE&feature=related

This was what Israeli did as a legitimate murder scene, committed after the Nazi Israeli Jew HATERS broke the truce. More dead Jews, more money to be rich with. and we'll blame it on that God nonsense. We must demand war crimes trials from Obama, and everyone else down there who is appalled at this indiscriminate mass murder continuing in your name. We need arrests of Zionist infiltrators within the American military who have been shipping weapons to nazi Israeli to murder more defenseless innocent People as targeted. Obama must demand death sentences against these ungodly Zionist vermins for treason, warranting execution for the war crimes of accessory to mass murder, or genocide. For the Great Truths. We Stand United.

-

Here on a Mission

/ / after dropping leaflets warning residents it was about to "escalate" its offensive against Hamas. \ \

SEE! This is AFTER fire bombing the whole community. Satanic evil enemies of Life. Who admit to targeting any one who has ever so much as swept our streets, warranting bombs dropped on their Block(s). SEE! they are ENEMIES OF EVERYONE. EVERY LAST ONE OF US. INCLUDING GOD.

Riddle me Dumb

Hamas Workers and/or Troops? Out hiding in the mountains of Afghanistan you mean right? Satanic enemies of all Humanity I tell you. The most evil nazi sons-of-bitches who openly advocate tyranny and oppression through mass murder of ourselves as the innocent left targeted defenseless. Enemies of Jews everywhere, the Zionist cares not for facts on who's Life it destroys for stolen

gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.
It's a prison death camp, brought about by Israeli STEALING
OUR Homes as ungodly thieves. Thieves who leave a Jew
to starve to death in a garbage dump because, it'll
attract more charitable aid The Zionist can use
elsewhere. It's not a Jewish thing, it's a criminal
matter. They STEAL innocent Peoples Homes in that
country. God's Country? God would will such criminal
offense? Which God? Not the God of Abraham, nor by
the teachings of Hillel, Christ, Mohammad, or
Confusion? So which absent God do you speak where WE
can't speak as ourselves openly for Just Cause?
Cat got your tongue? How come your not saying anything?
The Israeli Zionist ENEMY wants US ALL in slave
labor prison death camps silenced away that's why!

Israeli War Crimes
http://bothwell.typepad.com/whos_your_nanny/2009/01/israeli-war-crimes.html

Well, maybe I'm wronger on Ron Paul than I needed to.
Hey, don't you EVER forget, I am a man also. We need
to meet on common grounds, to demand the start of
formal arrests for the bushmob crimes of 911, Iraq,
Afghanistan, South Osettia, and Palestine, as a group
together united by agreement for this one cause, and
then... we can later argue about how your ideas are
better than mine because I actually know of which
your speaking.. Hey! you could call me Daddio if you
wanted! To the telephones we go.

-

Israeli are attacking prisoners held criminally
in their own Death Camps!! GET ALEX JONES ON THIS!

Hmm... why wouldn't Alex? to support his fictions
over Our Rights to Live Free perhaps? A Hero adapting
to the deaths scene?, or, a Bush whore committed to
enslaving Humanity, all so he can say, he told US so.
Big hero or big hero. Your NOT powerless to his vision
of complete control over information. He refuses 911
info, Iraq war info, Israeli info. All so he doesn't
have to look the fool, while Humanity dies with his
insults against our wills to make something better
of ourselves. Justice is what I will. Masturbate on
your own time Mr. Alex Jones.

If he states again about how he knows everything,
and is always right, and those that criticize
him on ANYTHING are delusional, it's going about to
make everyone further sick with this obscene take on

what life means as Alex takes it. If I truly state
two nickels make a dime, does that mean therefor
they make a quarter also? If I say so like Alex
would? He is an idiot. Truly. George Noory figures
Hamas broke the truce, and that the Mideast solution
is that Jews should be separated with special rights,
as oppressors over the freedom of every Palestinian
Prisoner, and what's Alex Jones gonna say about
his 'truth telling freedom fighter' George to actual
'lame ass evil nazi traitor' George?, to YOU about
how George is just trying to murder millions of
helpless people as an offer for the final solution?
We can expect Alex now to claim, Zionists should
have special rights over Jews, all to maintain
his FICTIONS on Noory being anything but the
monster to Humanity he is. Just because Noory
doesn't growl when talking about murdering all
children in around the age of 15, or against
soldiers who refuse criminal orders, does still
make him a true fascist nazi enemy laughing at
your murderers escaping to live freedom in
our dying forsaken worlds. The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demands arrests of the culprits
responsible for high treason against Johnny's
America. Now, who's with yourself. I am! I am!
I am!

Alex Jones doesn't know squat of Social Security, but
pretends he does, like Ron Paul does when speaking
of the Federal Reserve, Health Care, IMF, World Bank
blahblahblah.. I mean even the expert of experts
Alex has on near twice a week, EVERY WEEK, to talk
all about how the Illuminati are doing everything,(give
me your money now for whatever), DOESN'T SAY TO KNOW,
it was Chris Cox who changed Investment Banker rules,
to cover instead one tenth of WORLD INCOME loans,
to one twentieth. MORE THAN DOUBLING THE ENTIRE GLOBAL
MARKET FOR LOOTING WITH HIS SIGNATURE! (And. that isn't
even a fifth of the TRUE trillions dollar fraud story.!)
Now, granted, I wouldn't expect one tenth of one percent
of America to have even a distant clue of which I am
speaking, but importantly, Alex's expert of experts has
never mentioned it. EVER. Why? He don't give a fuck, but
how much money he can get you to give him for investing
in things that are un-important to our struggles, but
for the fact, he states, you'll get free money for
nothing!! OUR ACTUAL PROBLEM. It reminds me of those

Ron Paul dollars... where Ron'll fix everything, cause we, as a private company, are going to make YOUR money instead... holy fuk mon.. Talk about the kettle calling American racists. Thank God the FBI stepped in. (The answer unfortunately is not nowhere as easy as Alex would blindly lead you) - again, so I guess it will be, Americans were just too far gone as illiterate chauvinists, who cared too little for your freedom as themselves degenerating. Why? To battle tyranny they knew not Justice wins the day, and blamed innocent groups gathered wherever, instead of following the crime scene leads at the real murder scenes - like was once done on TV and at the Movies. But even that was too far above their doped down heads, to raise their finger to dial a phone number.

How about stating "A lawless bushite enemy wars America as a traitor, to escape the neocons from the crimes of 911."

Then Alex states the head of GCN is giving out gold at less than it's value as a special treat, every second or third week. Below wholesale. Now, really think this thru. Do you think Alex is trying to con you here? you bet. That is the Gold Racket. Diamonds are another thing - where I've personally seen, about a decade ago, a huge press that makes Diamonds out of coal. Swear to God it's true. Costs to make diamonds are pennies to the thousands paid to Zionists who live in Israel calling for the murder of all innocent Peoples. Where is the rich Zionist, grave robbing Jew hater to demand Justice for our times? Where? Pressing coal into diamonds, while advocating the murder of our entire Human species. THEY WANT TO KILL GOD AS SATANIC ENEMIES OF LIFE. While I am last known to Life's enemies as Jesus Christ, the Zionist's end every time. I'll have brought more Zionists to their rightful dooms, than any other, of any time, anywhere. I HATE Zionist bushite LIARS to death, all because I Love Humanity too much, to watch US die undefended as the innocent forsaken. They can change their evil ways, but till now, often not, benefiting off our suffering as war criminals who simply lie as demons to steal our Human values. Let's change this for our betterments. I mean the Halo is a dead give away..

The head of GCN has a son warring God to rape American women as lawless enemy in Iraq for the Neocon - again NEVER mentioned as something worth fighting against for Freedom in America - soldiers are suppose to REFUSE criminal orders - but not when Alex is at the mike.

He will never mention the Bushmob doctoring the NIE to con America for death as exampled, because it doesn't fit his fictions, where all the bad guys escape because they are geniuses headed by secrets so powerful, nobody can ever know'em, except Alex. He tells us near every day, he knows everything already, and is never wrong, therefore you can't criticize him. Bullshit. It's like he wants to be wise like Johnny Gawd is, without doing anything like studying for a test where the teacher actually does know the issues. He told US today, the British came up with concentration camps, from the Indians - who spent all their lives murdering themselves. The British 'invented' false imprisonment? The British came up with the, Jews Killed Jesus? The British invented Pope Gregory VII? I suppose Alex has never heard of Ghettos. SEE? he just pulls shit out of his ass, and calls it like it's truly pure gold you'd wanna buy. Those, like your typical American have no clues, so they figure, Life must be sorta so that History is all one big Alex Jones NWO cartoon. What? that the NWO did 911, and everything else that use to instead, require criminal investigations to nab the actual evil doers? Alex Jones IS the NWO he tells US all we should be concerned about never stopping, like it was in the DARK AGES. Justice Alex, why is that hard for you as a "Conservative" to figure? Is it because you are cowardly in the face of true Liberty? Afraid that some People, on some Issues, ACTUALLY know a great deal better than you could even imagine presently? Don't like that do you?, where you don't rule this Universe as a lawless tyrant desperate to live in an illusion at the expense of everyone else dying victims to censorship? Does he try to find wise men or women? rarely. "Ron Paul [MUST] leads our truth movement" - like, fuck off already with the Ron Paul, The Truther, Bullshit Alex Jones. 1% is what YOU get on Social Security deposits - 1%. And.. Bush stole 700 billion. 700. Billion. That's 700 BILLION. It's a "Trust" account. A "Trust" Account. It's being held in "Trust" Alex. Ron Paul is asleep at the wheel. As, so are the rest of all you other fools.. I want Justice, and I want it now for all the victims of 911. Americans be damned, we want Justice, and We want it Now.

In Texas, child rapists are given the right to freely move about without fear that Texans will stand as armed Men in defense of their very own offspring. And Alex wants this for the rest of America. That some

how to own a gun, means an American would kill a cop
who beat a women near to death for pleasures that
he could never be Publicly arrested for, as a
sadistically evil nazi bushite fuck. Look, if YOU DID
kill that particular DEMON COP after the Chief
refused to arrest him, you couldn't possibly go to
jail in Johnny's America, because the truth would win
out in a fair verdict. And REAL cops would honor you
with great big, thank you. Nothing worse than a
cop (or bushite grunter) who believes the Law doesn't
apply to him while he drives drunk, tazers someone for
nothing, abuses Women, or kids, to sell drugs, or
kills good cops, who are good men. (Like mercs do in
Iraq officially for Rumsfeld's P2OG. Coming to an
American city near you!)

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

"Rice says it is 'hard' for Israel to spare civilians in Gaza"

We KNOW they are ONLY targeting innocent People,
the ungodly zionist Satanic enemies say so..

"Israel Rejected Hamas Cease-Fire Offer in December"

Livni has declared her country "is not going to show restraint"

"Her" country?

It's like she's admitting here, that they DO NOT
target the IDF's Hamas, but only our innocent lives
as a threat to LIFE and GOD. Remember: the Zionist
LIARS broke the truce.

THIS NAZI ZIONIST FUCK BREATHES THE AIR OF US
http://www.youtube.com/watch?v=lMxfEsooM5M&NR=1

/ / So, Hamas decides it's time to end the
cease fire and has begun shelling Israel again. \ \

This guy even sounds like the Satanic false
accusing enemy of God he is. Let US, as Humanity,
hunt these real devils down, try them, and have
them executed publicly for the benefit of God and
Man. Understand: this REAL DEMON knows he's lying,
no living man on Earth could spew the vile lies he
does to excuse indiscriminate mass murder, or starvation,
as this Zionist enemy of life sells to STEAL Your
HOME, your Family, YOUR LIFE. An open enemy of God
trying to STEAL the Title of Jew from Christ. EVIL

ENEMY OF LIFE. See, when a bushite dies, you served Life well in defending their next INNOCENT target. BILL HIM FOR STATING ISRAEL WAS STRUCK THOUSANDS OF TIMES. BILL HIM FOR STATING HAMAS BROKE THE TRUCE. BILL HIM FOR STATING bin Laden DID 911. BILL ANY Zionist FOR THIS TREASONOUS LIE. Why God asks? Because there isn't any evidence to support that Satanic lie. According to the FBI. And according to God, Zionists are not Jews, but of Satan as enemies of every life form in this Galaxy, Hunt him down, and bill him today for the love of God. You can 'hear' it in his voice.. how he lies TO YOU as a DEMON of a Hatred for Truth and Humanity. Facts, that are easily available, are not what he works to mislead others, others he hates, and wishes to murder for as ungodly sadistic pleasures as YOUR enemy. Bill him under American law for being pro-torture too while we're at it. Death to bushite, death to the murdering enemies of God's Love for Mankind, and enemies of TRUE Justice for Americans. The fuking demon enemy lies to you, as a con to STEAL your life, or just as soon, the life of another innocent other. Now, what are you going to do about it? Except his lies as exceptable, as he tries his hardest blatantly LYING to kill God and Justice in our Worlds? Not in mine, but perhaps Yours.

' In Civil-Contempt Cases, Jail Time Can Stretch On for Years for Americans, without Ever seeing a day in Court. '

Where are the arrests?, then firing squads for the Judges who 'judged' such criminality against freedom for US, the Peoples in America?

' Where Did Taxpayer Money Go? Panel Slams Treasury [FOR STILL REFUSING TO SAY] '

Where are the arrests?, they stole eight trillion and counting.. And Congress 'slams' them for disappearing OUR MONEY. Slams with what?, a, don't do that again please butt sqeeze? It should be massive slammer time, with a return of all STOLEN monies.

' THEREFORE, those pro-Israel politicians in Congress won their seats in part using stolen money. '

Where are the arrests? Amerikan bushite nazi grunts are assisting in the mass murder of innocent Christians in Palestine. War crimes demanding death sentences. It isn't an argument that can be turned around. Nazi Israeli

STEAL Peoples Homes without apology, as a function of
their SATANIC government, while colectively bombing the
INNOCENT victims who die because of it. It's a prison
camp! they are denied water, food, shelter.. since four
or five truces over that they've broken, every one. These
are Satanic enemies, willing War Crimes against God,
a God NOT loved by zionist American Nazis. And a Son
as powerful as the four winds, ridiculed by Zionists,
and American know nothings, for the continued debasement
of YOUR soul worth here dying.

Israel Attacks Iran News Station

Why does not Iran DEMAND arrests, and death sentences
for these blatant war crimes against Humanity committed
by Amerikan Nazi Israeli Zionists? Along with the
perpetrators of 911? WHYWHYWHYWHY. Russians! Can you
help US out?

-

THE NAZIS SHELLED THE HOUSE WHERE THEY HELD
INNOCENT CHRISTIAN PRISONERS
http://uruknet.info/?p=m50596&hd=&size=1&l=e

Rise up for Justice American Christian, or
die innocent victim the Son of God does say.

-

Pictures of Alex Jones masturbating
"we were right about it all."

It's the NWO! The Illuminati! Not Bush, Cheney,
Neocons Gone Wild, or any of many other REAL
criminals, for the war criminals are just
puppets to his EVIL fictions. Forget about
Bush escaping.. Socialists who design traffic
lights, and Liberals who will to share fairly are
Alex's enemy, because he's fearful the FACTS
would escape his denouncements against truth
tellers. George Noory, one of the most despicable
individuals on the face of our great Earth
- is exactly the kinda guy he wants returned
to send his wannabe Patriots nowhere but to die.
What about Justice America? The bushmob doctored
the NIE. TREASON. There is video of iron flowing
like water from the towers, seconds prior to
the collapse. Alex ain't there to help US, for
that is where TRUE Patriots fight for real
Justice. When WE phone with indisputable facts,
on Ron Paul the bush whore sell-out for example,
he lies to all (GOD), then hangs up on US. Is

that the kinda freedom you think the Founding Fathers had in mind to give Your rights to speak for Alex who blames anyone but the criminals directly responsible for your funeral? The private banker never covers our loans, so why give them trillions without questions offered without answered as, never mentioned by the guy who is 'right all along on everything under the sun', and.. he 'rules the Ocean of truth' too don't you know YOU have a steak going all rotten to hell here also? You'd think Alex would take our call just for the challenge on where we stand? I'm free!

He is not. And George Noory tells us openly, he's into killing innocent kids for profit. George's profit is that apparently, by murdering all children in around the age of 15, will stop them from getting a clue at anytime in the future, to take him out as an ENEMY of EVERYONE for censoring our cries for Justice. Why is it that Alex would invite obstructionist, Steve Quail, or Alan Watt, on to lead you nowhere while they jerk off, but where we gotta go to actually defend ourselves? Steve has been on with Noory more than a hundred times, and, we'd figure, Alex will soon be delving into the Alien questions also. Answerable by me in seconds, but ahhh.. like Noory, doesn't want the truth of such a subject uttered, just endless streams of illiterate bushite dumfuk losers sucking on each other. While they wrest from US the wonder; just why we can't stop criminals from robbing ourselves, while murdering our families? Alex wants to blame the unstoppable NWO, while I, want to blame those actually responsible, like Bush and the proven treasonous, Neocon terorist liars who are pro-torture. With arrest warrants. All of them. I'll do it for Reagan's, War Crimes Act, as an act of respect for my Great America, that's isn't always been dying dead wrong under the leaderships of criminals.

Israel hits Gaza after UN truce resolution

/ / AP Israel and Hamas responded to a UN peace demand by hammering away at each other with bombs \ \

The IDF's Hamas is hammering away with what at who? Is the AP referring to the tin can rockets that travel usually several miles, but in one case,

22 miles? To kill a Jew standing outside in his
yard, thinking on how he would defeat true evil in
his time? Tin can rockets that contain no explosive
charge? Have no mistake, if it hits you in the head,
your dead, but really, what do you think the odds
are on that? E=mcï¿½. Or is this another, amerikan
past time, of, who cares for the facts, we are at
war with God and Christ now? Joe is an American Zionist
"Plumber", who has amassed a multi-million dollar
fortune in the competitive industry by shit eating.
Every bushite death is a mercy given to God in defense
of all that is right and Just in this Universe. A
lawless bushite enemy wars America as a traitor to
escape the neocons from the crimes of 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Now or Never - One Peoples Rise to Power

J. Wizard "The fact that Bush gave you zero evidence can not be
denied"

http://cleveland.indymedia.org/uploads/2008/03/now-or-never.mp3
http://baltimore.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/03/now-or-never.mp3
http://newmexico.indymedia.org/uploads/2008/03/now-or-never.mp3
https://israel.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://www.indybay.org/uploads/2008/03/17/now-or-never.mp3
http://la.indymedia.org/uploads/2008/03/now-or-never.mp3
http://neworleans.media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://indymedia.nl/media/2008/03//50997.mp3
http://newjersey.indymedia.org/media/2008/03//20791.mp3
http://boston.indymedia.org/usermedia/audio/11/Now-or-Never.mp3
http://houston.indymedia.org/uploads/2008/02/now-or-never.mp3
http://imctj.espora.org/uploads/2008/02/now-or-never.mp3
http://argentina.indymedia.org/uploads/2008/03/now-or-never.mp3
http://canarias.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://istanbul.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indymedia.ie/attachments/feb2008/nowornever.mp3
http://media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://www.stlimc.org/usermedia/audio/10/now-or-never.mp3
http://peru.indymedia.org/uploads/2008/02/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indybay.org/uploads/2008/02/13/now-or-never.mp3
http://imctj.espora.org/uploads/2008/03/now-or-never.mp3

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Traitors to the Cause

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

UN: Israel Admits Claims About Attacked School Baseless

US military re-supplying Israel with ammunition through Greece

House and Senate Compete To See Who Can be Most Pro-Israel

This warrants the Death Sentence to Republicans
who have committed America to these war crimes
- DEATH SENTENCES. Christ DEMANDS these trials
to start tonight on America's Coast to Coast
radio program. It's called first degree mass
murder.

Israel broke the truce on Nov. 4th, yet state they
will continue to murder Humanity indiscriminately
until a truce can be found that they will break,
as always, Being the Satanic enemies of God and Man
according to the Bible:

The Bible "I know the blasphemy of them which say
they are Jews, and are not, but are the synagogue of
Satan."

/ / UN Call for investigation into shelling of
Civilian shelter \ \

Investigate that evil does exist in the thieving
LIAR name of godless Zionism? The enemies of God
and Jews everywhere?

-

Freedom Granted by Americans for Neocon Liberators

"Americans are having their heads velcroed to chairs
and forced to take in nutritional supplements by a
tube forcibly inserted through their noses by US guards."

These are People not charged with any criminal
offense don't forget. Die bushite die you know is
what I recommend, as does Reagan. A dead bushite
means you've saved the life of their next victim,
an Innocent Human Being guilty of no crimes. The
war criminal enemy is the bushite, the Zionist,
the LIAR neocon traitor to Life as this Universe,
along with every dumfuk grunt who serves tyranny
for the bushmob at Guantanamo, Iraq, or Afghanistan.
It is a soldier's oath to obey lawful orders only,
but Cheney they don't take out with American Law -
how come? cowardly fascist nazi whores for Zionism's
evil as the ungodly that's why. Cowards dying for

the escape of the Neocons from the 911 scene as
reported publicly. - Vs. US. That's we whoever
you are.

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever. The neoCON LIARS are the LIARS conning
you here on our TVs and Radio dramas, in where, they
don't want to openly take our public calls for real
Justice. Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression. So,
them being "puppets" is even all the reason more to
insist in their capture for trial by Jury. A Public
Jury of our Peers. Now, who's in with You? You can
count me in. and I bet willed to action, we will find
others to be something of ourselves too.. Justice
and Liberty for All. Equal rights given is what true
freedom is as measured. Translated from the 'Alien'
dialectic to Amereeze jank vibe; where is the fucking
evidence here Neocon traitors who false accuse to lead
us off the straight and narrow? It leads to Bush,
Cheney, Rumsfeld, and Condi that's why I figure, you
figure, they figure, we figure, so... what are WE
going to do about this sacrificing for godless tyranny
further then as unrepresented?

Gaza Mosque Struck as Targeted by Israel Air Force 1 Jan. 2009
(Why so you may wonder they've had this string going
now where a secondary something, then there! that proves
something absolutely apparently, without the intellect
to fairly judge anything, particularly themselves honestly
as dishonorable thieves and murderers, targeting prisoners
held hostage to their own camps. Death camps. Nazis are
they.

Humans for Coast to Coast Radio Hosts as Frequent
contributers to the mention of Justice by name. Your
Rights, Your Word, Your Future, Your Life, This World.
Join me in proclaiming victory over the enslavement
of Humanity, through Justice realized as practiced.

If Americans Knew What Israel Is Doing! VIDEO WAS CENSORED!
http://www.youtube.com/watch?v=ynWjYHP91gA&feature=channel

Views: 1,212,890

Israel Facts the Media Isn't Telling You
http://www.youtube.com/watch?v=QKq38COoTG8&feature=related

Views: 358,960

Maybe we know it, but we just don't know it yet?

-

Israel Attacks Jews,
Silence from Mainstream about Violation of Law
http://www.youtube.com/watch?v=K1kt8qi0M-M

They kill Jews for money. They bombed Jews in Lebanon
for money. They want to bomb the HUGE sacred Jewish
communities in Iran.. wonder why? Zionists are not
Jews, for Jews don't steal in God's good name. Nor
target innocent beings for stolen gains. A zionist is
a thief to life, and as such, needs to be formally
charged for their criminal offenses, given lawyers,
and upon a successful prosecution, rot in a prison
cell and/or pay restitutions. YES. why? so not another
innocent person must fall in their place as next
victim to a zionist's public commitment to lawless
tyranny for evil intentions.

Johnny for Coast to Coast Radio Host

-

Israel Phones 'Terrorists' Before they Bomb Homes
http://www.youtube.com/watch?v=K5wrwZlwAq8&feature=channel

Didn't the Nazis say something like, they weren't
there to take out Hamas directly? Well, after all,
it was founded by the Zionist IDF, so I guess that
must be why they target our children instead..

UN: "Israel knew they were bombing a school"
http://uk.youtube.com/watch?v=uWP0GU0wVSk

/ / The hospital, and other smaller hospitals and
clinics were previously shelled by the Israeli
warplanes and tanks, stressed Hassanein. He
also denied Israeli claims that medicine and
medical supplies had arrived to Gaza hospitals. \ \

The Zionist is a thief of Life as our enemy.

IDF VLOG UPDATE: IDF Hits Dozens of Hamas Terrorists
- Capt. Benjamin Rutland - 4 Jan. 2009
http://www.youtube.com/watch?v=q9Jt-pV5wuM&feature=related

This Zionist enemy of God speaks like a six year old.
"Hamas Terrorists", "4. Jan.", come on now, how evil
do you have to be to believe this ungodly demon sells

you righteousness. They STEAL our food. They are OUR criminal enemies who torture innocent Peoples. A godless criminal enemy who also steals Peoples Homes. And drops millions of land mines to murder Jews indiscriminately for decades. Commits war crime after war crime against Humanity. Vile bile.

They killed our innocents, and unless we kill theirs, they will go on killing ours.ï¿½

It is the crime of which they demand WE are outraged against. Welcome to Humanity's suffering world due to lacking communications skill. The term "they" are referring to is YOU. Your innocent life Israeli intend TO STEAL, TO MURDER, TO ROB YOU Your rights here granted by God. These are ungodly acts of mass murder, perpetrated by enemies of Life. They targeted a UN Girl School for Christ's sakes. please fight back by supporting my calls for open international dialog. Justice must win our Freedoms back, for there is no other lazy TV'ed ass, pop a pill to make it all go away, plan 'b'. Look at me! I'm not crazhey! We can handle this no prob.. I'm a perfect King for these times of wonder and horror. equal rights are found through open communications for a measured Justice we do contain. Evil is the deceived disguised. And i am a god... on a mission.. Ladies?

-

The Appropriate Response To Islamic Terror
http://revisionistreview.blogspot.com/2008/12/judaic-columnist-urges-kill-muslims.html

/ / an Orthodox Jewish Russian immigrant \ \

Let US never forget, the Zionists also would bomb some locations, then later, drop the warnings for the Jews to run for their lives. Didn't warn them though if they get into a car or truck they would be destroyed instantly by the Zionist flying the America paid for Apache. I did a big show of shows through that continued as, more 'un-resolved' crime scenes perpetrated by the treasonous, neocon Zionist terror merchants. It's like they think some dying fools are going to keep going to save'em in the end from ourselves as still suffering in Justice denied as enslaving into ungodly tyranny eh? These Zionists are not only the bad guys, but they're bad guys to even the bad guys as there is no found honor among murderous thieves. A Zionist will kill a Zionist for a stolen nickel, as do bushites today. Hey! it's only Your Life in the balance. Or are you one of those

who goes in America, it's okay, we're only murdering
innocent folks who don't live in Israel.

Doing what's right and just, or evil as dumb is
Your riddle. Get back to US on that.

We need People are Equals Power!

President and CEO of Shareware Earth Co.
King Johnny Wizard at your service me Lord.

-

/ / It is just unacceptable to apply two standards of
morality, one for Jews and another for non-Jews.
For if what Israel is doing in Gaza is right, as
Israel and her supporters maintain, then what the
Nazis did in Europe several decades ago must have
been right as well. And vice versa. \ \

The ungodly zionist enemies, are enemies of
God and Man. Don't think the NAZI Zionist like
Bolton doesn't know this, with his friends at
FoxNews.They WANT to rape, murder, and pillage
America all her freedoms for the bounties of
private banker frauds. The banker does not
ever cover our loans, we do. So, why give them
trillions of American worker waged dollars for
nothing?. THEY DON'T COVER LOANS. See? that is
what this war against God is all about. People
of Humanity just seem to truly hate a guy like
US as wise and Just. See, people hate US, because
they can't for their lives disagree with Facts.
Why won't YOU support these same rights and
champion our demands for open communications.
Johnny for Coast to Coast radio host.

US Again Stops UN Call for Gaza Truce

Who is this the "US" person?, and let's
put him to death with Bolton and Kalilazad
for the most serious of war crimes against
OUR Humanity. Remember, Bolton was NEVER
confirmed because, the Zionist could find
no man or woman to say a single kind thing
about him. FACT.

CNN: The Nazis Broke The Ceasefire!
http://www.youtube.com/watch?v=KntmpoRXFX4

Protest pictures from around the world (not on CNN)
http://www.rys2sense.com/anti-neocons/viewtopic.php?f=11&t=16496&start=0

Remember Israeli nazis to this day, insist as DEMONIC LIARS, Hamas broke the truce - as Hamas is responsible when they target school girls for slaughter. They said the UN were secretly attacking Jews, clearly a LIE as impossible to prove because it didn't happen. But facts are the furthest thing away from the godless false accuser Zionist con man or demon witch LIAR like Livini. FoxNews calls the demon witch a Jew! ANTISEMITES.

We can witness, Americans do not have the intellect to understand what this means. See, LIAR Nazi Israeli broke the truce to get killed Jews for money. A regular fair for Nazi Israeli. Now, they state they will continue to indiscriminately murder humanity until the tin can rockets that travel miles stop killing Jews who hate Zionists. But importantly, it is Israel that wants Jews to die, so they can make off as Satanic with our stolen values. Just like the Bush family did with Hitler, that the Nazi Nation has no probs working gun in hand to wipe out Jews everywhere still to this day. Again, Nazi Israeli MURDERED JEWS in Lebanon as targeted. And leave Jews to starve to Death in Israel for more charitable aid they can use elsewhere. Public knowledge not disputed by any living soul on this planet because, the Zionist government admits freely to this. Israeli think being Satanic is worth it, for all the money and lives they can steal as enemies to Christ, Hillel, Mohammad, YOU, blahblahblah.

And, as demonic thieves, they steal homes from innocent god loving folks. US. But see the McCainiac HATES you as being a virtuous man or women, so they call for more indiscriminate carnage against Humanity, on failed hopes, that we as God are not going to come down to hunt them to the ends of this earth, try them, and have them executed for the war crimes of Torture, Rape, and mass murders committed for the neocons escape of 911.

Joe the Plumber to cover Gaza op

/ / Wurzelbacher says he'll spend 10 days covering the fighting and explaining why Israeli forces are mounting attacks against Hamas. \ \

Don't want an intellectual who might have a clue of what is transpiring with the forces of Satan, fuk, CNN'll likely hire him also. Don't you just hate this treasonous lying nazi demon? He has no journey man's license, never did, isn't a plumber, and doesn't have the millions of dollars he claimed

he did to purchase a company that would have rolled over 250,000.00 a year for himself alone plumbing. Plumbers, as good as the job is, never generate that kind of money. Who cares though, right? A Nazi liar is what Zionist's want, and that is what America gets. TV'ed Americans couldn't care much less. Evil nazi McCainiac who's sworn existence, is to con teen soldiers for death to raise the fortunes on the un-elected Neocon bushmobsters now fancies himself a teacher on the struggles against evil. It's like that faggot at anotheruntoldstory.com, who's into murdering innocent Gays, while fucking his own brothers up the ass, who runs ads everyday at GCN, tells US now, all about how evil we all are for demanding Justice. How long do you think that'll run with the Alex Jones towners still raising no concerns? It's for the money as Ron Paul would say.. Again, it is to divide ourselves from true liberty, by demonizing the innocent on our radio and tv channels. Instead of Bush, Cheney, Rumsfeld, and Condi.

http://www.liveleak.com/view?i=ab0_1231290043

http://www.kuwaittimes.net/upload/img_pict/headline9637e7.jpg

Read of the bushite in my America who call this work of Satanic enemies, a good thing they support to war terrorism for the sadistically evil liars of the neocon. Then KNOW my friends, a bushite is the enemy of every living soul on this planet. Have no love for those in the Air Force, the enemies of Man who bomb our families without excuse, but to know, they hate US as Christ to speak free for Humanity. That DEMON George Noory was so happy last night about all the good the bankers AND CHENEY are doing for their hatred they spoke of for all Russians. SEE? not to protect America, but to kill you with their true commitment to the demonization of innocent people, all to escape the neocon terrorists. I HATE George Noory more than anyone alive in America. He is so openly evil to ourselves, that only those who wished to lie to you, (like Alex Jones does about Ron Paul), would say otherwise as bushite dumfuk enemies. Cowards committed to escaping Bush and Cheney for treason against Freedom. They doctored the NIE on Iraq, highest of war criminality. Alex Jones has never mentioned it, but for MAYBE in passing. Hey because all the bad guys are just puppets to ignore over the elites, globalists, socialists, liberals, gays maybe, Blacks, Mexicans, and anybody else smarter than NWOer Alex. Ron Paul is a coward as rarely if never has a clue of which he is speaking on.

Israeli PM says to end offensive if Gaza ends rocket attacks

Sarkozy urges Syria to press Hamas for Gaza truce

How does the ungodly get away with this obscenity?
Nobody can deny Nazi Israeli broke the truce, as
they always have done as Satanic for the last 60
years. Killing Jews for money is popular with the
Zionist Nazis don't you know us by now? FoxNews CONNED
Americans for DEATH with the unmentioned, TREASONOUS
doctoring of the NIE. To kill Americans for more
neocon gains, which Alex Jones never mentions either.
Do Americans even care enough to raise Humanity's
call? Do they demand public executions of sadistic
godless Zionist torturers? as the Standing Law of
America - The War Crimes Act - brought to be
by Reagan - DEMANDS by the Law of America? It is the
Law after all, yet, CNN, CBC, and FoxNews calls the
perpetrators of the most heinous evil against Mankind,
heroes. America is
a nation of godless cowards willing to die murdering
innocent Christians in Israel, all for the profits
of the 'magical' zionistic private bankers. Bushite
grunts are now supporting the indiscriminate carnage,
serving as police services forbidding any of the
prisoners in Gaza from fleeing the indiscriminate
slaughter. Again, as Satanic, they don't arrest the
"Suspects", for what could they truly charge them
with?, no instead demand we die helpless murder
victims by forbidding escape, as they did in Fallujah
murdering more than three hundred thousand innocent
souls. Die bushite die screams to all men on Earth
from the Son of God. Will you stand for YOUR life
as truly worth something here? Like lawless enemies
Policing your reality will bring you more happiness
and prosperity with the great truth teller HAPPY
George Noory? The demon who openly confesses the
will to want to murder all children in around the
age of 15? Too crazy for you to face such an enemy
of huge demonic origin, so, go the cowardly way
like Alex Jones as sell out slave instead, to cover
the demon with endless praise on his treachery to
not have our fight on everyday with open calls for
understanding Justice is freedom. Instead of a
constant stream of bushite dumfuk enemies of Living.
This isn't complicated. Or it doesn't have to be.

Israeli nazis state they will murder humanity
indiscriminately until rockets stop falling on
their country. Yet, they broke the truce.

Alex Jones told US as a deceiver, he's been
on Coast to Coast a hundred times. Not in these
last eight years he hasn't. I demand Alex prove
this, or be known by all far and wide a treasonous
liar, trying to take US off the tracking of
criminal action of his buddy, the demonic enemy
LIAR George Noory. bin Laden didn't do 911,
despite the facts that WE KNOW George Noory
knows better of but LIES to con the American
teen further for death at the profits of the
un-elected bushmob. See Alex wants you to blame
anyone but those directly involved in the crimes
of 911, or Iraq, or those responsible for it's
cover-up by Zionist propaganda. George Noory will
have as invited guests whos only function there
is to spread dis info as supporting more
indiscriminate warfare for the escape of the
neocon terrorists responsible for starting the
illegal wars to begin US at. Or those whom often
support torture, a war crime that only exists as
irrationally held by those who's minds have only
a blind hate for the indivisible rights of
another innocent other. And often truly hate men
and women for being Just as wise. The McCainiac
Zombie video is a perfect example. When the Zombie
is asked about the rights of Women, the McCainiac
Zombie cried out for raping more Women. The
position of authoritarian power, was only found
with the bushite as oppressor, rapist, torturer,
or Air Force Bomber, not liberation by freedom.
The bushite McCainiac KNOWS it can't compete
openly to defend it's criminal treasonous
actions! Remember, Alex "the Conservative"
thought McCain was the choice if you had to make
one, earlier on, then changed his position,
sort of, later by calling them all puppets not
worth the effort, but .. Obama's idea's matter
not, it's that his Birth Certificate is, no war
too be fawned. Palin? who's she? McCain
firebombed Vietnam as "war hero" for France?
The Banker doesn't cover our loans? Matters
little.

Norwegian doctor: Israel intentionally targeting civilians
http://rawstory.com/news/2008/Norwegian_doctor_in_Gaza_Israel_targeting_0105.html

"All that is happening in Gaza here now is against
international law, it is against humanity and I
think it is against what it means to be a decent
person. You don't treat other people like this.
Even if you disagree with himï¿½ maybe even if you
fight with them, you don't treat civilians, children

and women like this."

Israel deliberately targeting civilians in Gaza
http://www.youtube.com/watch?v=Ev6ojm62qwA

It was almost acknowledged on CBC radio that nazi Israelis, use the argument that a tin can rocket traveled miles, to kill some innocent Jew as a direct hit (likely a person who hated godless NEOCON), all because that nazi state has OPENLY, as PUBLIC policy, stolen water and food including baby formula, along with a huge list of other atrocities, to punish God and Humanity since way back before three of four truces. AGAIN, Nazi Israeli always, as ungodly, break their truces. Why? Because YOU, or Christ as any Jew's life means nothing, to all the 'free' billions they'll get from given American worker wages. Look, Americans refuse to call for the arrest of Bush on their national, "truth telling" Coast to Coast radio program. Why? Because, for one, George Noory, (Alex Jones' best buds), has told US he's into killing innocent kids as powerful, and that 'bin Laden did it', Is good enough for US. You don't get a say here however how you will live or die. George Noory calls all grunts heroes, and those who refuse criminal orders, those he wishes to go ballistic on. Yes, it's true, George Noory is still alive and happy as ever.

Rise Up for innocent Life, or don't and see where it'll get you in the end.

Again, every soldier in the Air Force serving for the neocon liar is a traitor warranting death, to save the lives of their next innocent victims. They have murdered more than two million people in Iraq. They are pushing heroin into America from Afghanistan. They are raping AMERICAN women as officially "LAWLESS" (can't be arrested but through Rumsfeld - who has not seeked any prosecutions for the raping of American Peoples. He, as Neocon, is TRYING to DESTROY FREEDOM For all Americans in America - while paying with American wages, South African death squads to murder Black men) and TV'ed Americans refuse to speak for Justice denied themselves. Zionist amerikans only see US as innocent others, not themselves to pay, but they do pay, they will pay.

God, nor John will not live in a world where
bushite grunts walk freely down our streets as
first degree mass murdering rapists, torturers,
and thieves. Celebrated by CNN, CBC, and FoxNews.
Especially when they DEMAND they have greater
rights than Human Beings. Mass Murderers deserve
immediate death sentence to defend ourselves
from their demon lies and betrayals to God and
Man. Every CBC and CNN reporter who reported
Russia attacked Georgia unprovoked will warrant
trial, then death sentences for their total
commitment to the Satanic NeoCON enemy war
criminals. Remember: they targeted for murder,
helpless innocent families. YOUR family. CNN
wants you to blindly believe, CNN personalities
like ENEMY George Noory are so happy, why would
we think they willed death against our great
Humanity by conning you for more stolen money
through the sacrifice of YOUR life for zionist
criminals who laugh at your powerlessness to
raise your voice for Justice.

-

Stealing the Title of Jew from Christ:

Fallujah by the Sea: Aping America, Israel Unleashes Chemical Weapons
in Gaza
http://uruknet.info/?p=m50412&hd=&size=1&l=e

Look at this picture of nazis indiscriminately slaughtering
our Humanity, while on MSNBC they reported that the Nazis
will continue to murder Humanity until a truce can be found,
A truce that the Satanic enemies of God will naturally break,
as they ALWAYS do. They are godless enemies of Life who wish
to steal the Title of Jew from Christ. They targeted Jews in
Lebanon with seven million land mines, and let Jews starve to
death in Israel for more charitable aid they can steal from
G-d's Good Will. When asked by Israeli newspapers why, it was
said to kill a Jew is rewarding for the godless Zionist.
Public record. Die bushite die.

http://lataan.blogspot.com/2009/01/israeli-zionists-guilty-of-deliberately.html

/ / In doing so, this makes Israel guilty of using
its own people as ï¿½victimsï¿½ for political purposes. \ \

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What Israel Does Not want God or Humanity to See
http://www.kawther.info/wpr/2009/01/04/what-israel-does-not-want-you-to-see

Look at the comments from bushite grunts glorifing
in this indiscriminate slaughter of Innocent Human
Beings. Evil enemies of God do breath our air.
Die bushite die.

Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus!

LEAKED: graphic, uncensored video shows carnage in Gaza
http://rawstory.com/news/2008/Leaked_graphic_video_shows_carnage_in_0104.html

Zionist Enemies of The Jew do not Care for The Truth
http://video.google.com/videosearch?hl=en&hs=0hK&resnum=0&q=911+missing+links&um=1&ie=UTF-
8&sa=X&oi=video_result_group&resnum=4&ct=title#
Zionist Enemies of The Jew do not Care for The Truth
-

FBI E-Mail Says Bush Authorized Abuse of Iraqi Detainees
http://uruknet.info/?p=m50369&hd=&size=1&l=e

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ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

Israel or Hamas who broke the truce
http://www.youtube.com/watch?v=KUfgULhac8c

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

-

a-mother-from-gaza.blogspot.com

This web site is the winner of greatest interest
internet site of the years 2000s.

Israeli plan to topple Hamas, re-instate Abbas
http://a-mother-from-gaza.blogspot.com/

/ / Breaking the truce Nov. 4, then, was Israel's
way of getting the gears rolling for this whole
sick game: the toppling of Hamas, and the
re-instating of the impotent Abbas into Gaza
so the "peace process" can remain forever in
formaldehyde, to quote wiseass, er., Weisglass. \ \

Nov 4th! - perfect!. We are dealing with Nazi war
criminals who refuse US, as a Species, Justice
for everyone. Especially The Jew's Jew, Johnny
America. Hint: they call us Love just to hide our
complete agreement with this Living Universe to
will Justice for God as every last bushite zionist
freely moving. Once all the neocon zionists are
rotting in a prison cell, or formally executed as
godless war criminals, we all will have one joyous
welcome in a heavenly future.. Until then, demand

Justice for US. That's YOU too. Angels included.
Who? I don't see no Johnny Wizard here anywhere,
We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.
The bushmob are traitors for closing official FBI
investigations into 911, immediately after the mass
murder of Americans occurred. Treason, of a, trust
WE don't have it in US to stand for our common
values as the Revolution will not be televised,
Johnny Who. Man, are we or no? Be Somebody, then
get on your phone to call in for Justice willed.
Alive I Say! - this must be where you'd raise the
dead and dying.. if you only could raise your finger
to dial the phone numbers - well guess what? - I Command
You Can! - snapoutofit - Speak for pursuing Justice
on 911, and show serious concern for publicly paying
private banker men trillions in worker wages for
nothing. This is seriously disturbing, yes, but
seriously important to address openly in our spaces
to remedy with a Johnny Wizard World Wide Work of
Wonder, Super CNN Special of Specials, with Your
Host, the One and Only, President and CEO of
Shareware Earth Co. John Himself. Hey everybody!
Wow eh? So a.. when is the good guys showing up?
Now. Justice. I want US to Host Coast to Coast for
open Public communications, where things get
solved because we know whats we're learning about.
We of god, this way comes, then men and women with
calculators to know: giving money to private bankers
on hopes they'll lend a small fraction some back
to ourselves at high interest is dumber than rocks.

Arab American rally in Dearborn for Gaza
http://www.youtube.com/watch?v=AVP4_-u6MV0&NR=1

Israel Drops White Phosphorus Bombs, Littlest Victims Suffer
http://www.apfn.org/apfn/DU_Israel.htm

My friends, demonic evil forces do exist to STEAL
the living rights from anyone of us, especially
including the Jews. Remember, it is the zionist who
steals God's good name through lies left unchallenged
by private corporate interests tied to the CON of
private banking in total. Christ is a Jew too.
Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus! Like starving
Jews do attest on a infomercial that ran for near
18 months across Canada. Then covered by the Israeli
press, that the Zionist officials there actually
enjoy the prospect of suffering Jews because it,
OUR SUFFERING, will attract more charitable aid the

ungodly criminal enemy can use elesewheres! Hitler revisited. I am the Son to God and I wouldn't lie to you about an issue as hughly Satanic as this.

White Phosphorous: Israel fires artillery shells into Gaza
http://www.sott.net/articles/show/172089-White-Phosphorous-Israel-fires-artillery-shells-into-Gaza

We can overcome this, and create a better world in the process. It's back to the simple things: open communications, and evidence, evidence, evidence to convince ourselves truly of anything. We are in a horrible dream right now, that we must arrive ourselves into for comforts. Arrest the Neocons for treason. That of course includes anti-gay faggot Bolton for his and Kalilizad's treasonous lies brodcasted on FoxNews these last few days. And Peter Powers for the London bombings while we are at it, then, we'll really being going places.

/ / My relative's neighbors- 3 young children- were all killed today \ \

-

Satanic Enemies of Christ

CNN with Blitzer allowed reported on Larry King that Hamas broke the truce, without any uttering of fact. While when the nazi israelis were accused, just minutes earlier, Mark Regev could say only silence. The zionist Satanic enemies of Jews speak only silence, because they know they are satanic enemies liars of Human will.

Again, these SATANIC enemies break their truces everytime, then state, it is Humanity's fault because CNN will never ALLOW the humans to know. They are murdering innocent People in hospitals for example, or those in a Church, just as amerikan bushite nazi grunts do for the escape of the neocon zionists responsible for 911. To hunt a lawless bushite nazi grunt, and kll it instantly is to defend it's next innocent bombing victims. Bush and Cheney closed 911 investigations on 911, therefore killing a lawless bushite traitor for our Humanity is just to get ourselves together to arrest those responsible for mass murder on 911. The deaths of bushite zionist liars is a mercy given for the love of God. Die bushite die.

Israel Nazi State

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce. They always break their truces. Understand these Satanic enemies of God, dropped seven million land mines on Lebanon when learning the conflict was over. They will kill Jews for money, THEY are the Nazis. Nazi Mark Regev is clearly insane. 'It wasn't israel that started this' He could not stand with any man without instantly being exposed to All of Humanity as a war criminal in need of immediate public trial for death sentence. These are only innocent people being bombed. In a concentration refugee camp. Look, it's a prison camp. And if YOU
were a prisoner there, and Texan child rapists are something you'd wish to defend your community from, you'd maybe join the Gazan police force, run by Hamas, a political group democratically elected. All police officers in Gaza, Nazi israeli claims warrant 1000 lb bombs, not warrants for arrest for a criminal offense. Remember, it was Israel that broke the truce, as so is spoken by Palestinian government officials speaking internationally - using the example from November. But understand, as Satanic fraudsters, they always fuck over Our Innocent Humanity this way.

What kind of "Human" would commit such crimes against Life? Cheating Liars for Satan God tells YOU.

The Bible "I know the blasphemy of them which say they are Jews, and are not, but are the synagogue of Satan."

Look, these enemies of Life steal INNOCENT PEOPLES HOMES as thieves of The King of Jew's simple philosophy.

The Reality of Zionist War Crimes in Gaza
http://www.youtube.com/watch?v=GDjthFt6EZg

The zionists aligned with Bolton are using radio-active weaponry against all Christians. What do "Christians" in America on Coast to Coast have to say? Nothing because that demon enemy of Life George Noory, the pro child killer, insists as Truth's closest most bestest friend, bin Laden did it.

most moral army in the world:

Our reign of terror, by the Israeli army
http://www.ifamericansknew.org/cur_sit/rot.html

Glorified by CNN, CBC, and FoxNews:

ï¿½do the Gazans know that only Hamas is to
blame for their sufferings?ï¿½

Remember those same news groups will KILL
Americans too with poisons in our foods
while smiling as George Norry does Daily

-

Gray Ghost

/ / Funny thing noone ever shows pictures of
the scumbag Hamas rockets falling on Israeli
civilians, but the nooz is full of Palies
suffering. Fuck you all I hope Israel
exterminates the vermin. \ \ He can advocate
the MURDER of innocent people for the neocon
liars, and Google doesn't destroy his account?

Remember Zionist Nazi Israeli started all their
murder rampages against Innocent Peoples for
'free' welfare money, as broke the truce with,
IDF funded Hamas on Nov. 4th. They have been
indiscriminately bombing People with excuses
that never do add up. Example: Nazi Israeli
stated they were in the right to murder ANYONE
in a car or truck in the entire nation of
Lebanon, (especially in the Jewish communities)
because like enemy "Gray Ghost" would say, all
those innocent Peoples deserve TO DIE AS MURDER
VICTIMS for his sadistic ungodly pleasures.
Remember, Nazi Israeli didn't mention this until
thousands has already been murdered, then even
still, without radio, TV, or newspapers, telephones,
or sky writing how were ONLY THE INNOCENT JEWS
as officially targeted to know? Then the seven
million land mines to kill innocent kids for
generations. To the enemy of Life, Gray Ghost
it matters not that Israeli started the conflict
by sacrificing nazi vermined trashed as Satanic
dumfuk enemy soldiers sent across the border,
to Grey Ghost, all it knows, is Justice must not
be allowed to win this game for our human race,
for he would be truly seen as a sadistic enemy
of Freedom, powerless, or rightly dead for
his proud treasons against life in this universe.

ZIONIST DEMON LIARS TO SHOW HIT ON TRUCK FULL OF ROCKETS ACTUALLY HIT
TRUCK FULL OF WELDING TANKS

http://english.aljazeera.net/news/middleeast/2009/01/20091117737115874.html

Please John begs all People's of Humanity,
Americans do not have the courage to even speak
concerns for their dying as evil state of godless
private banker ruled blind tyranny. 'Duh, yeah
give billionaires trillions, trillions, TRILLIONS
to help the poor homeless mothers poisoned by
FoxNews CRIMINALLY.' Gawly je, I dunt no y dat
detnt work-ed' - o wel, cary ohn my wayward Son.

Livni: Gaza truce would give Hamas legitimacy

See? this is why NAZI I$raeli thinks they have
an excuse for bombing people indiscriminately
to break a truce they signed on to. This isn't
a one time, maybe two time occurrence, but every
time in the last 60 plus years the zionists
aligned with Hitler have. Satanic enemies
of Humanity.

ANTI-SEMITE is FoxNews every time they assault God
with "Israel, the Jewish State" to torture, steal,
and murder.?. ANTI-SEMITE!

The Ungodly Zionist - a report from the front

/ / The most recent victim of Israeli airstrikes
was 10-year-old Ismail Hamdan \ \

To the Satanic enemies of Man, the Ungodly Zionist,
an innocent murder victim's life can not be allowed
a defense such as the charge of first degree murder
against Netanyaho because, he states no Justice to
any who believe in the Jewish cause, as Hillel, of
freedom as Liberty for all. If Jews ran Israel,
Netanyaho would be chastised publicly by the Humans,
for sanctioning the criminal acts of first degree
murder. The nation of Nazi Israel STEALS Peoples
HOMES. What other nation on this Earth commits
such willful crimes against innocent Human beings
OFFICIALLY? Steals homes from god loving innocent
folks and labels it our 'Justice system'? Who? Neocon
Amerika, the nation that gave trillions to bankers
recently on only prayers that their gods will maybe
lend some of their own money back to them at high
interest. But alas, evil is the deceived disguised,
as in their deep ignorance of money and virtue, they
do not understand, the private banker never covers
the loan. Never does a private banker reach into
it's pocket to borrow US to begin with - so as a
consequence, the bankers have just pocketed all the

'free' loot for nothing, TRILLIONS, and are not
saying why should they help anyone else with charity?
it's the amerikan way. Instead, hate the wise socialist
who designed a working good traffic signal system,
where lives are saved and congestion is eased, or
hate the white man, the black man, different People.
But never Mr. Bush, Mr. Cheney, or Rumsfeld, the
neocon traitors who closed criminal investigations
immediately after the crimes of 911 occurred, who
doctored the NIE to con America into death, and
never slight the trillioniare private banker gods,
who have stolen/taken our public authority through
war criminals in Congress. Taken from all others
to bring us a much poorer world suffering due to
our speakings of contempt for Justice as christians
in America - who claim in silence only indignation
for real Christian families robbed or murdered
Officially by the zionist state of ungodly Israeli,
paid for by dying America. Americans refuse to raise
their phones for the arrest of the bushmob for capital
mass murder, so, what's private trillioniare bankers
walking away with the entire economy in free fall
going to do for them, when they are already to
death for the glorious Zionist Neocon thieves of
Civilization? Proudly in hatred for Innocent
Humanity. Again, Hamas was founded by Zionists
in the IDF, to kill Jews for money - public record.
Jews starve near death in Garbage dumps of Israel,
all because the Nazi Zionist UNGODLY government
states it is beneficial to starve Jews, for, they
will receive more humanitarian aid THEY can use
elsewhere. Public knowledge. Zionist liars murder
innocent Jews for money, like they did in Lebanon,
and like the zionists did on 911 by forbidding the
pursuit of the terrorists by following the crimes
scene leads at the real murder scene. Unjust
enemies of Man.

To arrest those responsible for 911, we are going
to need to form a public warrant for a person or
persons. Bush and Cheney are guilty of closing
investigations on 911, treason, called obstruction.

UnHoly Nazi Israeli Racists are Greater
than the censored words of Messiah!

IDF's YouTube Gaza channel to Correct Ourselves

/ / it will disseminate footage of precision
bombing operations \ \

Precision? They dropped seven million land mines in Lebanon, after having seeked out where the Jews lived, (Northern Lebanon), and murdered them firstly! JEWS. They, as enemies of God, like those of FoxNews, will refuse these type of FACTS on their hatred for Love and Justice. Their hatred for Jews, real Jews, like me. Understand: American baby formula has been contaminated with poisons, and FoxNews doesn't think it's important to their corporate responsibilities to kill ourselves further for profit. The Zionist will murder anyone just to steal your belief in God as Love. They HATE me for being wise and Just. Hate. For, why wouldn't America support my demands for open radio communications on the Coast to Coast radio network? Americans would rather murder Humanity before Justice succeeds beyond their illusions of grandeur through the mass murdering of ourselves for stolen gains. The banker does not cover our loans! Giving them trillions for free unquestioningly is dumber than rocks. Enough.

Fake Rocket Attack
http://xymphora.blogspot.com/2005/02/fake-rocket-attack.html

Remember however, the Zionist has no qualms about killing Innocent Jews too if it means Americans will get it more free welfare to murder ourselves. They openly STEAL Peoples homes in that nation run as thieves don't You know? Or as it is just open public knowledge that the Zionist excepts that 911 was actually a good thing for them as war criminals reaping the cash rewards for continuing capital murders?

/ / Ehud Barak promised that the war would continue ï¿½to the bitter end.ï¿½ \ \

That is you there Barak promises to end bitterly as the innocent the demon targets for ungodly murder. How could ANY REAL MAN steal food from a Christian baby? How do they do it?, as the inhuman. (Like bushite do in Iraq, while on CNN in interview tell US, they are there war criming for neocon traitors to steal everything as "helping the Iraqi children". They offer no clean water, no food, just indiscriminate bombing campaigns of evil incarnate. True fascist nazi enemies of true freedom in America who advance censorship to

anyone like myself. Why? They lose. They are not men but Satanic enemies of the King to Jews, the Messiah. I Am. Thieves to the scriptures of Hillel, and of Moses. Thieves to the intent of every true religious person, for God is everywhere. God is the Word, and the Word is Holy. So, fuck you and die bushite nazi traitors to American Justice, those of them who refuse US open free words to resolve their war criminal behaviors as is done in godless Israel today against INNOCENT Christians. Done before another innocent other has our homes stolen, or is murdered by the lawless grunting bushite dumfuk enemies of Jesus Christ. I am King already, always have been, always will be. Live with it. The Koran is filled with great understandings on this relationship. Christ is mentioned more than Mohammad - and Mary can be understood as the mother of all being before we are. a virgin.)

Look humans, you've
had your fun murdering yourselves, now the wise people will compete for bettering ourselves by understanding. Who the fuck are these illiterate monsters at CTV national television? and how can they willingly keep our soldiers in the dark dying that way by simply smiling? Are they experts in anything? are they respected researchers? writers?, politicians?, civil rights lawyers? - do they even respect ourselves enough to be warned of vaccines? NO, instead they LIE with such contempt for Humanity I am surprised Canadians, don't speak out more.. perhaps they do, it's just CBC, CJOB, and the Winnipeg Free Presses of our World make no attempt to inform ourselves about it. They don't take my thousands of calls, how about Yours?

Life is real to know, if you seek, and not go so freaked out as Living is as it always has been. Knowing God is cool, 'amazing', yeah, whatever, but we are of too this real world suffering for our lack of respect for a wise person speaking. I WANT FREE PUBLIC DEBATE FOR JUSTICE AS ALL INCLUDED. Now really, is that too much for US to ask freely? What say you Googler? Afraid I will truly make your banker gods look like fools?, the gods we all give more than half our lives to for nothing? Don't want to look truly dumb as deathly ignorant, so censor US all themmers you are

too in command of your Fate. So be it. See? Stand in. I didn't even really do anything there, yet it's written, it's done. A Miracle! Imagine: your Christ! YOU. now what are you going to do.. time is ending for you remember, now what are you going to do? Will you pick up your magic phone and call likewise for Justice denied, or will you crawl up on your cross and die in silence for the glorious Zionist aligned with trillioniare private bankers and Satan? Christ is of all peoples. Your on a mountain.. You've raised yourself from death already, and your here to do something greater for the love of God.. what's your plan for the common man? Welcome to the real world my friend.

Morpheus 'Nobody can tell you what the Matrix is, you have to see it for yourselves. .. all I am offering is the truth Neo, nothing more'

Lawless Police to Defend Who Again?

They Call it Terrorism

"Israeli nazi enemies call bombing people, like they do without apology, terrorism. What can't you figure?"

CNN TODAY

/ / Stand down 'Christian' nation. It's not your babies. Ethnic cleansing is not a 'sin' as long as the 'chosen ones' of Israel do it. \ \

Israel, the nazi enemies of God nation broke the ceasefire on November 4th. Now, as demon liars claim they want to honor a ceasefire again to further steal ourselves from the Love of Justice. Why do the godless Zionist do this always as first degree murderers? Because they can't win an open debate on their treasons against God and Man. The private bankers DO NOT cover our loans. Again, these SATANIC ENEMIES OF GOD dropped seven million land mines on Lebanon while target killing JEWS. INNOCENT JEWS. Targeted. Northern Lebanon, look it up. Israeli MURDERED Jews. Innocent Jews as targeted for more stolen charity. I again, beg you to support my call for war crime trials against the bushmob, including

CNN demons who report a total contempt for
YOUR life dying. Your call loser.

ISRAEL: No civilian casualties in Gaza!
http://uk.youtube.com/watch?v=RlZd3vR6Kzk

Satanic enemies of God as anyone included.
Think: who buys these demon lies to steal
further from our innocent Humanity? Zionists
do at CBC and CNN, who will murder America
by openly lying to destroy freedom. Example:
CNN reports Georgian nazis who targeted
children schools, churches and threw grenades
into our homes to murder as minions for Satan
are called freedom fighters. Just like the
Third Infantry, the new lawless police officers
of California, who can't be charged with rape
for example, because ONLY Rumsfeld can okay
such prosecutions. Hey who cares for Iraqi Rights
right?, for TV America's CNN with FoxNews and
George Norry doesn't, for it's only American
women and children now right nazi enemies? And
WE ALL KNOW, cowardly America refuses to even raise
their phones for these dying concerns. How can
George Norry continue to live happily dying
America for the neocons? How? they let them.
Alex Jones thinks George Norry is just
fantastic, so no, don't encourage the NWOers
to demand free communications, because if we
did, Alex Jones and the like, would factually
look like the idiots he is. (better to die
America than face this foolishness?) The
banker doesn't cover our loans, we do Alex.
So giving them trillions in American worker
wages is a bank robbery in progress. Simple.
NOT a diabolical ingenious plan, we, the simple
folk can't figure without the Alex Jonesers
geniuses of thought control developed by the
CFR, builderberg, the Boners and NASA.

Obama stated all lawless soldiers who war for
godless Zionism are heroes, which includes South
African death squad goons who murder my nigger
friends. AEGIS. I call them lawless enemies of
God, deserving death sentences to save the lives
of their next innocent victims, Obama calls them
heroes warring for the escape of the neocon
traitors responsible for 911. Who are you going
to believe?

Look, I plead

http://news.bbc.co.uk/2/hi/south_asia/7771243.stm

/ / Calcutta police arrested Mukhtar Ahmed
for procuring SIM cards for the group without
knowing that he was an undercover operative.

He was on a long-term mission with police
in Indian-administered Kashmir. \ \

His cover was blown?

This is a guilty\accused party to the offense,
and blind men of state plate, 'we're going to
maybe let him go, so they can start a war of
mass suffering and death.'? Who is "we" enemy?
Why is this story not where it should be? Who's
interest does it serve by further dying
Humanity to: we don't care about not stopping
terrorist crimes in progress then? Don't be a
Nazi. Why? Just because. THE 'suspect' WAS IN
ON THE MASS MURDER OF US. Justice for All
there you nitwits. Under who's command was he
working?, and does Condi figure in there some
where by sending TV America elsewhere? Who is
set to gain money in the planned indiscriminate
murderous bombings, and let's try, then execute
them instead of US as innocent victims how about?
King of Earth I am,

An American Patriot

FDNY Lieutenant Admitted Plan To ï¿½Take Downï¿½ WTC 7
http://www.prisonplanet.com/fdny-lieutenant-admitted-plan-to-take-down-wtc-7.html

Protect Elections, Prosecute Rove
http://www.velvetrevolution.us/prosecute_rove/

/ / The GAO reached the estimate of 190,000 missing
arms - 110,000 AK-47s and 80,000 pistols - by
comparing the property records of the MNSTC-I against
records US General David Petraeus maintained \ \

Understand this: Saudi commander Buford Blount, gave
out 170 tons of explosives for looting, all so they
could, shoot us up in Baghdad. A Saudi commands the
Third Infantry as traitors to the cause of Freedom.
Cowardly dying Americans are so due to self contempt.
Cowardly.

9/11's a lie
http://www.youtube.com/watch?v=tAkWNxhBWjs

Creating a nation of zombies
http://www.brasschecktv.com/page/506.html

-

In a Normal World

"It's not that we're Jewish, it's that they are
war criminals."

IAF plans to hit targets in 24 hours
http://www.nation.com.pk/pakistan-news-newspaper-daily-english-online/Politics/23-Dec-2008
/IAF-plans-to-hit-targets-in-24-hours/2

"General Mullen is pressing our authorities to
allow India to hit certain targets,"

In a normal world, Mullen would be questioned,
then arrested, tried, and executed with Gates for
trying TO KILL INNOCENT PEOPLE for cash profits
stolen from God's America. But the nation is filled
with cowardly know nothings.. how do we know this?
They refuse to even pick up their phones to complain
about DYING needlessly for the un-elected Zionist
neocons. The TRAITORS who did their part to carry
out 911. America only PRAISE real demon George
Norry who openly lies to the ears of America, while
advocating the indiscriminate slaughter of all
children in around 15, because he claims, that way,
you reduce the risk that they might sometime in the
future own a gun to kill himself as a REAL bad guy.
These REAL monsters will kill your American kids for
cash. Why? Because YOU refuse to even raise your
phones for concern. It's "just" your neighbor's kid
who'll get the vaccine shot filled with toxins, drink
the American Milk, chew the bubble gum, eat the
Campbell's Soup, or drink the tainted water. The
poisonous water containing sodium fluoride is in
soft drinks, beer, and bottled purified water costing
near 3 dollars that Pepsi openly confessed, they just
get right from the poisoned public taps of Boston,
unfiltered. TV America? where are you man? Why do you
still refuse to raise your phones? You go in faith
WITHOUT science, with reason?, without God, or even
crave my words as the Great Son. Why do you forsake
yourselves? Are you not worth the effort to say your
own lives are worth something too?

Charlie Manson "Yes, your honor, I did authorize
the killing of Sharon Tate and the rest, but you know,
we need to focus on the future rather than the past!"

Bushite Nazi grunts of the Air Force have bombed
more than a many innocent persons, claiming we as
Humanity can't hold them to account for their
murderous crimes of STEALING our lives. It is an

oath soldiers give to obey lawful orders only,
yet, a bushite's word means nothing. They bombed
Samara for no reason but to die. They bombed
Fallujah for no reason but to die. No honor,
no courage, no manhood.

-

Jewish Rabbi: Zionists are Godless Criminal Thugs
http://www.youtube.com/watch?v=T1NLdRVkJiA&feature=related

-

Where's MY Bailout???

"It's must be good to be too big to
fail, or be a fat cat too big for jail."

In who's world?

-

http://www.sundayherald.com/international/shinternational/display.var.2476912.0.bulldozing
_bedouin.php

/ / Where does Israel think these people are
supposed to go, after evicting them and
torching their homes??? \ \

See, the thing is, these Satanic enemies of
both you and me, (along with every other
life form is this Galaxy), seem to think hurting
innocent People, murdering ourselves actually,
will destroy God's Good Work for Justice
in our times, while they make of as terrorist
thieves.
It's not that we're Jewish, it's that they are
war criminals. How could any living Man, On
Earth, STEAL food from innocent infants and
mothers? Randomly send in Military rockets
into refugee camps? Who? SATANIC CRIMINALS WHO
HATE JEWS. Jews, Real People, like me. To all
be fair is my motto, as was countless others
- as also known as The Golden Rule. (look for
Johnny's The_Golden_rule.mp3) and don't forget
about Confucius!

-

CONDI DID IT ?

"In other words, Washington exerts more control
over the ISI than the duly elected civilian
government of Pakistan."

Now, that's bizarre. Imagine doing it, then
blaming yourself for it on hopes one thing
doesn't lead to another. All are innocent.
Justice is freedom. Lawlessness is evil dumb
man. Sorry, but that is now the world turns.

-

Will Congress listen? IMPEACH NOW! Bush is a Threat to Peace
http://www.youtube.com/watch?v=vOV78w2MPT0&feature=PlayList&p=78D7AD665B2B029D&index=1

-

CNN Don't Want to Take our Questions

Cheney worked immediately after 911 to close
police investigations, as so reported
on Meet the Press, with the late Tim Russert.
Simple. Or cowardly like Alex Jones call him
just a puppet, and blame the NWO geniuses
hid away in far off places, manipulating to
secret out the blind idiots who don't truly
believe in elementary logic. This isn't
complicated.

Fed Refuses to Disclose Recipients of $2 Trillion
http://globalresearch.ca/index.php?context=va&aid=11416

Bernard Madoff -- The $50 Billion Thief
http://www.youtube.com/watch?v=0IhJJXjxmHU

This spot where the Jews laugh at law men,
then get all their life savings stolen, is
THE classic in the halls of Zionist History.

Some say, Christ, the Jew, is a law man
too don't you know.

This is What Americans Are?

/ / the United States has refused to sign
a declaration presented Thursday at the
United Nations calling for worldwide
decriminalization of homosexuality. \ \

Again, this Zionist infiltration is
designed to divide our populations through
demonizations against the Innocent. There
is no crime in loving people despite what
GCN advertizes.

"The concessions made by the Olmert-Livni
government to the Syrians do not and will
not obligate a government that I shall head,"
Netanyahu said. The concessions of indiscriminately

murdering US repeatedly? Understand to know:
The Zionist is a Satanic demon enemy of Humanity
according to God, in the Bibles all timelessly.
Netanyahu, the demon, is so ungodly as evil
criminal, he will likely "win" Istraeli the Zionist
election on a public platform of godless tyranical
theft and murder. Remember, Israeli Zionists
funded the creation of Hamas to kill Jews in
Israel, and TRUE Jews also live in Lebanon, Iran,
Etheopia, Canada, and the North Pole, and we're
the "niggers" there too that Israeli despise -
like as they who PUBLICLY supported South Africa's
oppression of Innocent South Africans for stolen
monies. Satanic I tell you. Don't believe? in
innocence? That's the power of Peres, the devil.
Evil a zionist criminal is proudly. Peres will
tell you, all about when Zionists target to murder
little old ladies as he did on Larry King, it's
really not Satanic, because they'll blame the
murders on someone else completely different,
as US, the innocent. blatantly. In your face.
While CNN goes, uhuh, gotta kill those Jews in
Northern Lebanon. As Syrians too! Israeli dropped
seven million land mines on more than 170 towns
and villages given to them from Condi! a godly
nation of Jews? ANTI-SEMITE is FoxNews everytime
they assault God with "Israel, the Jewish State"
to torture, steal, and murder.?. ANTI-SEMITE!

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

-

MY LIFE HAS VALUE

"You can't count on Congress or the Courts to save yourselves"
Ron Paul - The oUtRAgiOuS fUnnY MaN

Ron Paul is a traitor. He didn't support arresting
Bush for 911, or for the killing of American teens by
doctoring the NIE. Now, Alex sells Ron Paul, is
his leader of OUR truth movement because he says
there's nothing he's going to do but blame poor
people, or socialists,

"The Liberals and the Socialists, along with
the Communists and the Gays, with the Muslims,
and Community Organizers with the freaks different
that me did the murders", said near all the retard

bigot Conservatives blindly false accusing.
Example: Condi says Pakistan's ISI committed the
murders, the FBI says no, there isn't a scintilla
of evidence to substantiate that. Condi says
Pakistan's ISI FOR SURE did the murders, the FBI
says no, there is not a whisper of fact to form
that conclusion. The "Army" says for sure Pakistan
did the murders, the FBI says no.. There is not
a thread of fact a zionist offers to form YOUR own
mind in respect for your rights being equal to ours.
Condi only tries to hypnotize the "Conservatives"
into believing something without understanding,
without knowing. Sean Hannity does this everyday
on purpose to kill innocent American teens.
Conservatives are universally ignorant People,
and sometimes, serious war criminals like Condi.
Taking US off the target of following the crime
scene leads at the real murder scene. The
"Conservative" mostly doesn't have the mind to
understand Justice is freedom, like the NWOers,
so they false accuse US as Innocent others, for
crimes they don't speak for as Our true defense.

I'm counting on you kids eating right, and
knowing you belong free here. I'm King Johnny.
Hi.

Anyway,

Imagine: Alex doesn't ask 'hero truth
teller' Ron Paul for a million or three for
advertising on Bush and Rumsfeld's prior plan
to invade Afghanistan for Enron. Why not?
Who's money is it still anyway? Ours. In
God we Trust. Wanna see a card trick?

Christ Loves Everyone!!

I can FIX Monstanto's GMO assualt.

How? by understanding the science
involved, that Monsanto DOES NOT, and Alex, not enough.
(look for works I've done A DECADE AGO FOR ANSWERS -
Google however has removed more than 20,000 documents
referencing my writings as of last month - do you care?
That a man such as great as I, will not be allowed to
give my works for free to Humanity any longer? -
People of Earth: undertand, many in America say YES!
here, because they truly HATE Humanity's cause of
Liberty and Justice for ALL. Google closed my
Jew_Boy_Johnny account, all because of vermin like
"shitskin Moslem", who openly message in the

hundreds daily for murdering innocent Moslems,
who pirate all of Google Groups with racist
nazi slurs, just needs simply complain I am anti-Semitic
- The Son Of Man - no trial, no questions, no answers!
I can not post more than three times every four to six
hours, otherwise, they close my accounts, while at the
same time then, go through years of my writing to
sadistically destroy more. They figure they have
something in our Courts to support their treason of
assisting in mass murder against America by Zionist
theives who steal the title Jew, as in godly? while
shitskin posts hundreds daily pirating everyone's
threads with his EVIL hatred for God and Humanity, if
not even more from Israel) Not the Alex Jonesers way,
but the actual way logically understood as where the
problem resides. DNA, as is life, is multi-dimensional.

Where is this
"Christ" that CBC, CNN, GCN, and RBN harp on
that speaks nothing for real Justice to the victims
of 911, or Iraq, or Afghanistan? Or the children of
South Osettia? Alex is near fit, but he is far from
sufficiant. Jack Blood was great, but Alex we guess
doesn't want him looking like he Rulez like US
too though. RBN has it's moments, yes, I guess that's
true.. Things do seem to be improving, what with
all the torturers and rapists wanting to come home
as brain damaged Zombie police officers. They don't
want the laws of freedom though, too complicated.
They'd rather hunt down our families from the
sky with bombs actually.. fuk, I hate EVERYONE
in America's Air Force, every last evil fuk. They
watch these videos and celebrate their complete
indiscriminate murderings that get killed so many
GIs - they celebrate the slaughter of our innocent
Humanity . George Noory will kill your American kids,
have no doubt, for, he already has.

CBC and CNN only smile to tell you all the great
things they do by denying OUR Humanity these truths.

America is a cowardly evil nation desperate
for excuses as still being run under by zionist
thieves.

-

Israeli Settlers call Ethiopian Jews "Niggers"
http://www.ynetnews.com/articles/0%2C7340%2CL-3633163%2C00.html

This isn't isolated. The Jews of Ethiopia, are
the actual Jews of the Bible. These monstrosities

that God knows as Israeli, are Satanic enemies of Man. They steal our homes, rape or torture our INNOCENT families, and bomb Jews as the did in Lebanon TARGETED as an OFFICIAL function of their evil "government". They actually, a few years ago, gathered all the darker skinned toddlers, and murdered them as an OFFICIAL government of SATANIC action. More than 100,000 "Nigger" toddlers, Jews, they murdered with radiation poisonings. Officially. Now, Americans GIVE them money to bomb innocent Christian families indiscriminately guilty of nothing. They steal their desperately needed food and medicine. They are thieves of the most vile evil natures. Example: the Zionist who STOLE 50 billion dollars from American Jews will not be ordered to give back the money! Sure, they tell you that SOME of the suckered Jews, will get a small portion of their investment returned, but only through the wages of American citizens, NOT by the Zionist THIEF, T-H-I-E-F, who you are told OFFICIALLY "lost" the money. (will he even spend a day in jail?) He lost it, ah shucks, just like the trillions "lost" to criminal trillioniare speculators. And like the banksters, who never covered a dime of the money for the fraudulent loans, but get to STEAL your homes, and now wish to charge US a renter, for a home Americans, the illiterate suckers, actually paid for, and will continue to until they speak above the laughter of a George Noory, or con man Bill O'Really, the true demon enemy. Or will instead? cowardly, will go like Alex Jones, naw, George Noory is a good guy, a happy guy, sure he speaks of the enjoyment in slaughtering defenseless innocent children, so what?, he's pleasantly happy to state all is well going ballistic against soldiers who refuse criminal orders from the Zionist neocon. Not a fuking dime!! Understand, this isn't just a, let's get the info out for People to know as Alex Jones sells to near overdose.. (we are mere mortals who work nine to nine Alex The Great.) CBC managers, all of them, have known since shortly after 911, that Bush and Cheney closed FBI investigations, they know that iron is on video flowing like water from the towers, THEY KNOW THIS because I personally told them. Yet, they smile as demon liars to die our teen soldiers CONNED deliberately. We need some serious police action in arrests of treason against all news

celebs, who of course will get lawyers, (what
they deny in happy silence to not mention
against American torture victims) but will
be shown conviction for their real contempt
for the value of YOUR life my friend, our lives
they watch indiscriminately die for lies they sell
happily for stolen cash profits.

Dead Babies Can Take Care of Themselves
http://bellaciao.org/en/spip.php?article17872

/ / The FDA may not know a safe level but I damn
sure do, that level is zero! \ \

But will Americans of America, even lift their
phones against happy George Noory, CNN, and all
that sees fit, to sit idly silently dying US
victim in their corporate extravaganzas? I hear
the magic money bag guys are in running the show
from our central banking offices, in as a debasing
culture of indifference to their own cowardly
sacrifice. That's if we believe what we know of
the fictions they sell ourselves. Georgia, Iraq,
Afghanistan, and so on.. they lie to our world
for criminal gains, gains they've seen near to
overtaking them. Demand the arrest of Bush and
Cheney for closing criminal investigations on
911 immediately after the crimes occurred. Then,
without evidence, falsely accused an innocent
man of the crime. A crime they knew enough of,
to plan before hand the invasion of Afghanistan
for Enron. Speak now, or, suffer to die in
tyranny you nation of fascist cowards.. your move.
Your baby.

-

My video removed for no reason
http://www.youtube.com/watch?v=UthzF35SdbQ

-

Does this Work if The Judge is a Criminal?

http://rawstory.com/news/2008/DoJ_blocking_Obama_team_from_docs_1212.html

/ / The Justice Department has evaded a request
from President-elect Barack Obama's transition team
for documents about the secret programs of U.S.
intelligence agencies. \ \ Torturing innocent People
to death as guilty of nothing, or escaping bushite
rapists who target American women in Uniform,
while pushing heroin to enslave American teens for

zionist grave robbers. Not in Johnny's America I'll
tell you that right now.

It actually doesn't work that way though..
Justice is man.

NASDAQ chairman Bernard L. Madof STEALS 50 BILLION ! !! !!!!!!!
http://www.youtube.com/watch?v=MrcBazJ5Xas&eurl=http://www.brasschecktv.com/page/497.html&
feature=player_embedded

/ / CNBC's Davif Faber reports on the $50 billion
Ponzi scheme run bu ex-NASDAQ chairman Bernard L. Madoff. \ \

A Zionist STEALING from Innocent Jewish Peoples targeted
SPECIFICALLY. Somethings never change... Do you have
any ideas on the fact, that a great many Zionists
have been arrested over the decades for putting Nazi
Swastikas on their own grave stones? Also, did you
know an estimated more than 20 million Russians died
to defeat madman Hitler? Who's banker was Zionist George
W. Bush's grandfather? Do you know this yet?? Well,
now we know we know, to be King I am here your servant.
Just don't therefore figure I'm going to wash your
feet now. Be American.

http://www.worldnetdaily.com/index.php?fa=PAGE.view&pageId=83477

/ / New rules published in the Federal Register
would allow certain civilians to call American
soldiers into action inside the U.S. to prevent
environmental damage \ \

This is why it is outlawed by the American
Constitution(s). Demon thieves must not be allowed
to command mindless grunts who shoot people
randomly for fun. As AEGIS and Blackwater,
KBR enslavement camps along with Campbellï¿½s Soup,
is in part, their acceptable Business partners,
warring Humanity as US innocent for stolen profits
with poison. Teen grunts are admittingly from any
you honestly ask, portrayed ignorant low life
failures, drop out bushite vermins who want to in
turn, victimize the innocent as they accept America,
as them, must tyranny as cowards for traitor war
criminals. Criminals like them in Afghanistan, who
openly defend poppy fields to imprison American
citizens say nothing on their trailer trashcan
talk, internet forays for blatant complete
disregard for suffering Mankind. These grunts of
far off military dictator shipping nations, that
the TV neocon wants patrolling our Americans
streets, don't instead fight proud for our

honorable Police Service successes - of whom play
our Freedom game for the law books sighted as rights
heretowin. A force that claims they are lawlessly
un-accountable, is a force of evil against our
great lands. Friends, they hide nowhere in
darkness, ready to be exposed for Public
questioning. Soldiers were caught dressed as
al-Qaida, murdering police officers, and when
they were in jail, awaiting trial, the bushite
grunters, broke them out!! With "American" Tanks
commanded by a Saudi in some likelihood. (Buford
'where's the billions?' Blount is a Saudi
military commander, who in his off time, also
commands, the Third Infantry!) Posse Comitatus
will be a good thing to impose as standing
Law..?. You're the American Patriot Soldier.
Need help? Well, I could be your make believe
King for the time being.. by just simply,
forwarding these life and death concerns as our
own. We have some rights here Soldier to have
Justice prevail as our benefaction. The bushmob
did 911. Your call.. Don't be dumb now.
Your call..

Lawless enemy world of enslavement though
naked ungodly tyranny?, or American Liberty as
Justice believed for the victims of Guantanamo?
False capital accusers who take our concern awry
are our problem in fair Governance here, when we
understand this, we will have conquered the
world as the new orders. No evidence, person
innocent. Torture? fuk you and die then. These
be the glorious tales we tell of times ago, where
men were men, and war criminal zionist nazis were
hunted down to defend Life ourselves. When a
bushite enemy of America dies, it's a glorious
moment for all innocent Peoples defended from
it's lawless terrorism. They are traitors who war
for the escape of the neocons responsible for 911.
Cowardly traitors who LIE to America to con
further more from the American victims.

The CNN political team chooses the videos, not YOU.
http://www.youtube.com/watch?v=sEJTd0oSB7k&feature=PlayList&p=86DBD53BE904238D&index=0&pla
ynext=1

Why do you forsake me, your wise great King? - your
took by crooks falling in thievery by silence for us
deafening. Enough. We Need Real Leadership.

World calls on bringing Israeli [ZIONIST/NAZI] leaders to Courts of
Justice
http://www.uruknet.de/?p=m49523&hd=&size=1&l=e

McCainiac "We got to have our head examined!"

The bushmob doctored the NIE on Iraq to con
America for death.

-

Give Free to Banker.. Loan Back Maybe? Paleeze..

Why We Do the Things We Do

Sales pitch: Mankind takes on the world as One
with the calculators. Civilization DID happen!
Correct math scores are not impossible to find as
an answer to: why we do the things we do. Americans
gave private interest bankers trillions on only
Hopes that these, the most obscenely wealthy of all
the upper classes, are going to graciously lend
some of our own money, (we just gave them,) back
to us... in dire need. at interest! It's for our
benefit baby, don't you cry. This is just plain
dumber than rocks Johnny Wizard says okay. And
simply going to a gold standard is not the easy
made NWO answer, it is accounting for ourselves
that is going without questions. The private
banker is highjacking our public authority for
their private interest of exploitation.

Our governments are not holding Private Bankers
to some kind of public authority to question who's
interests are being devalued here. This is why
the thing has been messed around for so long, We,
the People, have been too foggy on super basic
math skills as pronounced by, truly effective
Jewish leadership. "The Private Banker DOES NOT
cover our loans, we do." Read that again now.
And acknowledging, we, as conscious, can succumb
to suggestion without knowing what we are even
saying sometimes really. Everyone wants to play
the lead, but few are wanting guitar practices.

It get's easier as you try..

Answers: we need a tax on every buy and sell to
limit speculation in the stock markets as it was
prior, while openly discussing how the
investigations are going, in returning the 700
mill that was given through for another means by
Congress. For the private bankers to take that
money elsewhere, is to neglect the problem

persisting of home owners, and that mortgage
issue they forgot US about. Why Americans
desperately, at peril, gave the money to begin at.
Look, while arrests are transpiring, we'll then
discuss using the re-cooped stolen money to finance
all remaining mortgages on family homes at zero
interest levels, upto, let's say for now: $500,000.
It's an idea I'm putting out there to dialog on
with you guys and Obama. Obama!! How's it going!!
Hey man, we can work it out.. You don't seem like an
impossible person to reach. Hey, make life interesting
in ushering in a new peace plan by communicating. Now
I know your all pals with everyone as government, as
that is what a successful politician can do sometimes
good, sometimes criminal. Obama, we can't let these
con men go. These have been times of lawless wars
against God as indiscriminate bombings, of torture,
of slavery, of heroin pushing, of national looting of
a Peoples Treasures. How much is too much for you my
poorer brothers and sisters of the faith? Obama, let's
believe in ourselves. These bankers are stuck crooks
for no faulty but our own. It's still our money however.

King Johnny Earth, White House Jester. !

Our dreams have come true... Boo!

913. Re: TV distribution equipment (advert)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 13:31:04 UTC
From: Bill Wright <insertmybusinessname@f2s.com>
Message-ID: <RrydnVQ0d7G2rQ3UnZ2dnUVZ8rmWnZ2d@pipex.net>
Source record: 17737

"D. Stussy" <spam@bde-arc.ampr.org> wrote in message
news:gmnlo4ruk1@snarked.org...
> "Bill Wright" <insertmybusinessname@f2s.com> wrote in message
> news:BuydnQIuau1-oxLUnZ2dnUVZ8rydnZ2d@pipex.net...
>> There's a sale of second-hand TV distribution equipment here.
>
> Wrong group - SPAMMER.
Well actually, no. The stuff is likely to be of interest to some radio
amateurs. It is RF gear after all. Many amateurs have electronics abilities
which would enable them to use the equipment for its intended purpose, or
modify it for amateur radio use.

Bill

914. Re: Traitor Bush closed 911 investigations immediately according to the FBI and Senator Daschle - Man, Mr. Bush Jr.'s WHORES sure are wicked evil letting the demon enemy of Life escape eh? - Bushite War LIFE Itself - 'Alpha company patrols the poppy fields.'

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 14:15:02 UTC
From: Usenet User <liberalsrcrap@gmail.com>
Message-ID: <TTWjl.8808$E67.6647@newsfe12.iad>
Source record: 17738
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Yeah, Like we want to believe a liar and a tax evader Tom Daschle!

915. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 14:29:18 UTC
From: Robert Lacoste <see-alciom-dot-com>
Message-ID: <49903dbf$0$18401$ba4acef3@news.orange.fr>
Source record: 17739
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

"Wimpie" <wimabctel@tetech.nl> a crit dans le message de news:
e5e82d7b-3778-4338-bc57-f1ed93e8ce3f@f3g2000yqf.googlegroups.com...
> On 6 feb, 18:44, "Robert Lacoste" <see-alciom-dot-com> wrote:
>> Hello,
>>
>> I am looking for the antenna factors table for a Eaton 94455-1 biconical
>> antenna (20MHz to 200MHz). Does someone have a calibration table for a
>> similar antenna around, or a manual for this antenna model ?
>>
>> More exactly I have found some K factors for it but they seems wrong,
>> except
>> if I'm wrong with the units somewhere. I have a table with figures
>> ranging
>> from "47" (65MHz) up to "59" (200MHz). Assuming these figures are in dB/m
>> this would give a gain of -44dBi at 160MHz (K = 20 log(F in MHz) - G -
>> 29.8
>> isn't it ?). The result is not reasonnable... and not at all compatible
>> with
>> the measurements.
>>
>> Are my K factor figures wrong, or is my calculation wrong somewhere ?
>>
>> Thanks for your help !
>> Yours,
>> Robert
>
> Hello Robert,
>
> AF (K) for Eaton 94455-1 as a receive antenna:
>
> 30, 13.7
> 40, 13.5
> 50, 12.4
> 70, 7.7
> 100, 10.2
> 140, 16.0
> 160, 17.5
> 200, 12.5
> Frequency in MHz, K in dB/m.
>
> I don't have the manual, values are from a report, original source
> unknown. It would be nice when somebody could confirm these values.

>
> Hope this helps you a bit.
>
> Best regards,
>
> Wim
> PA3DJS
> www.tetech.nl

Many thanks Tim, that's exactly what I was looking for !
Robert

916. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 14:45:28 UTC
From: Robert Lacoste <see-alciom-dot-com>
Message-ID: <4990418a$0$4083$ba4acef3@news.orange.fr>
Source record: 17740
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

Thanks to all for your answers, all figures converge and seems to give an approximate gain of 0dBi around 160MHz, consistent with our measurements.
Many thanks again !
Robert

917. Re: Eaton 94455-1 biconical EMC antenna. Antenna factor ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 14:55:58 UTC
From: dave <dave@dave.dave>
Message-ID: <ApmdnWoldKli3g3UnZ2dnUVZ_j2dnZ2d@earthlink.com>
Source record: 17741
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.equipment

Robert Lacoste wrote:
> Thanks to all for your answers, all figures converge and seems to give an
> approximate gain of 0dBi around 160MHz, consistent with our measurements.
> Many thanks again !
> Robert
>
>
Unity?

918. Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 16:47:15 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <n6Zjl.2197$eK2.123@nwrddc01.gnilink.net>
Source record: 17742

I read that old 78 LP's broken into pieces & mixed with a particular solvent was used as coil dope. Does anybody remember which solvent was used & how affective it was?

919. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 17:29:12 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <ooo0p4tpit567n7rk1o9lsboi41t55da7h@4ax.com>
Source record: 17743

On Mon, 09 Feb 2009 16:47:15 GMT, "Spin" <noemail@alone.invalid>
wrote:

>I read that old 78 LP's broken into pieces & mixed with a particular solvent
>was used as coil dope. Does anybody remember which solvent was used & how
>affective it was?

Coil dope can be made from polystyrene packing peanuts dissolved in
acetone. Q-Dope is some kind of cellulose polymer broken down in the
same solvents. If you're planning on making your own, it does take
several days and plenty of agitation to produce a suitable sticky
mess.

The very old 78 rpm records were originally made from Bakelite, which
is quite resistant to chlorinated hydrocarbon solvents. During WWII,
Vinyl records appeared as a substitute for Bakelite. It's easy to
tell the difference. Bakelite is thermosetting plastic and is
unaffected by acetone. Vinyl is thermoplastic and is softened by
acetone.

My guess is that whomever suggested dissolving records wanted to trick
you into breaking your 78 rpm records. (Note: I'm slooooly
transcribbling my record collection to various digital formats).

You don't state what you're trying to accomplish. If it's cleaning
the Q-Dope off old coils, acetone softens it nicely. Wipe clean and
you're done.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

920. Re: Traitor Bush closed 911 investigations immediately according to the FBI and Senator Daschle - Man, Mr. Bush Jr.'s WHORES sure are wicked evil letting the demon enemy of Life escape eh? - Bushite War LIFE Itself - 'Alpha company patrols the poppy fields.'

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 17:31:11 UTC
From: mopeyzakween@yahoo.com
Message-ID: <978a6946-acda-4b1f-ab97-580efc723c68@p23g2000prp.googlegroups.com>
Source record: 17744
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Feb 9, 7:25 am, Johnny America - No evidence against an accused is
US being truly abused <nomailhere...@hotmail.com> wrote:
> Private Banking Made Simple
>
> http://www.megaupload.com/?d=0K03GAVYhttp://www.mediafire.com/?xo9w32zmfox
>
> I must be on crazy pillshttp://www.uruknet.de/?p=m51615&hd=&size=1&l=e
>
> / / Well, why haven't the banks just returned
> the money?... \ \
>
> People who know they defeat all "Conservatives"
> in seconds with indisputable simple logic, will
> eventually rule the Universe, if CNN, CBC, and
> Alex Jones allow open communications on what is
> understood by all as high acts of treason openly
> committed without a defense of smart people
> explaining why/how we are being rooked as idiots
> on purpose. Crazy man, crazy. Oh.. anda..
> justwondrin', would be the first name Reza be that
> of the feminine or, echem.. masculine? Just
> curious on language that's all..
>
> Oh, logic like, "Buying in bulk is cheaper."
>
> -
>
> Godsmack - I Fucking Hate Youhttp://www.youtube.com/watch?v=FiPtHkfDXus
>
> Hey! Johnny's new theme song playing when
> I be bagging the bushite zionist whores of
> the demon antichrist, Our Mr. Bush Jr. Bush
> closed 911 investigations, Bush lied about
> Saddam not letting inspectors in, Bush never won an
> word fairly in his entire war crime life of
> game rigging with naked deceit and betrayal to
> the cause of Man, die bushite die. Rock on
> my friends, rock on.
>

> "Army deserter deported from Canada, now in U.S. jail"
>
> This is a for real war crime. Why? there was/is
> no cause for the Iraq war. Truly. Example: why
> bomb if you can go anywhere without delay? To
> only murder innocent People INCLUDING SOLDIERS
> to thieve from ourselves as war criminals is what
> any rational person comes to understand. When you
> destroy bushite grunts who war God for rape, torture,
> and enslavement of our species, you save the
> innocent lives of their next victims. To hunt
> the godless bushite enemy, is to love Justice
> as our glorious Humanity winning over the lawless
> nazi grunts of the Third Infantry - who'll shoot
> anybody, blindly as cowards, led by a Saudi, Buford
> Blount. Their "leader" who left Iraqi's largest
> weapons depot undefended for looting. Qaqaa. Killed
> many a bushite nazi grunting lawless coward by his own
> treasonous brand. And mumbling bushite nazi grunts have
> what to say about American teens made valueless
> victims for Neocon bounties? "whore yay" That's
> about it..
>
> LIFE IN PRISON FOR AMERICAN VICTIMS
>
> [godless bushite enemy] Marines ignore Afghan opium so as not to upset
> localshttp://rawstory.com/news/2008/Marines_ignore_Afghan_opium_so_as_0507....
>
> 9/11: Total Proof That Bombs Were Planted In The
Buildings!http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1
>
> VIEWS: 10,100,000
>
> King Johnny Speaks Coast to Coast! Answers
Everything!http://www.mediafire.com/?myz0etmzx1y
>
> Five Dancing Israelis Arrested On 9/11http://www.youtube.com/watch?v=tRfhUezbKLw&e
>
> TWO CENTS FROM JOHNNY
>
> http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3http://www.mediafire.
com/?sharekey=bba3db86f772190bd2db6fb9a8902bdahttp://boston.indymedia.org/usermedia/audio/
10/Two_Cents_from_Johnny.mp3http://milwaukee.indymedia.org/media/2008/07//210039.mp3http:/
/miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3http://argentina.indymedia.o
rg/uploads/2008/07/two_cents_from_johnny.mp3http://media.indypgh.org/uploads/2008/07/two_c
ents_from_johnny.mp3
>
> LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
> Evidencehttp://www.democraticunderground.com/discuss/duboard.php?az=view_all&...
>

> This is called ungodly nazi war crimes against
> innocent Human beings.
>
> Obama Gets Tough to Shield Bush
Torturershttp://chris-floyd.com/component/content/article/3/1694-protection-ra...
>
> Who does Obama think we are as 'United' together
> on pro lawless torture against innocent 'others'?
> Wake up people, we are under attack by those
> who refuse US Justice to win Freedom for
> anyone. "Conservative" retards are completely
> lost here, because they do not have the
> intellectual skills necessary to understand:
> a person accused of a criminal offense without
> any evidence is innocent. Or, how about, No one
> deserves to be tortured for confessions on
> crimes left then unresolved for actual
> retribution. [Aegis OPENLY murders innocent
> families for more American paying for zionist
> monies - P2OG - YOUR Spouse, YOUR Child, YOUR
> family].
>
> Following the crime scene leads of 911 to nab
> the actual evil doers is beyond the will of the
> deaf, dumb and blind? with lawlessness gaining
> for monetary loses due America as corporate
> cheaters. We are Brilliant, of that much I am
> certain. Conservatives are minimally, idiots.
>
> Worst Person in American Broadcast
Journalismhttp://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel
>
> This is like, so profound. Gibson's condemnation
> is directly aimed at his own ideas of the subject
> he has no grasp of. Wow. profound. See though..
> this "popular" FoxsNews celeb has zero interest in
> helping America succeed to defend freedom through
> lawful actions, because he has no sight of a better
> world blindly destroying itself. Hey Gibson! why
> don't you try and be a good guy for a change! No
> joke. Wow. Profound.
>
> -
>
> Israelis forced mother to choose which of her children would
diehttp://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-...
>
> / / the soldiers told her she had to choose five of
> her children to “give as a gift to Israel.” As
> she screamed in horror they repeated the demand

> and told her she could choose or they would choose
> for her. Then these soldiers murdered five of her
> children in front of her. \ \
>
> Funded by the American tax payers as a gift to
> God as our stolen Humanity. Equal rights for all,
> especially the Taliban's position in defense of
> America, demanding evidence to form our guilty
> verdicts.
>
> -
>
> Obama Accused of Blackmail over Terror Trial
Evidencehttp://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-te...
>
> Again, Obama is taking a position to torture innocent
> people here as a traitor to Just cause. Just cause to
> live in a free society. Torture warrants the death
> penalty under American STANDING Law.
>
> Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
> Bikehttp://www.liveleak.com/view?i=99c_1233639102
>
> Top Cop Johnny Judge rules: Ten years in prison.
> Maybe fifteen if the dumfuk grunt, back from the
> war against Iraqi children as a traitor to American
> values, shows no remorse for his crimes against an
> American women either. Absolutely any cop or soldier
> who disagrees as true contempt for our freedoms with
> punishment against this nazi trash pirating our
> police uniform, WILL WARRANT death sentences all
> around to ACTUALLY defend liberty in my America.
> Any American father who prides in killing innocent
> Iraqis for the escape of the neocons for 911 is no
> father. And a wife should get the hell away from
> a male who enjoys murdering helpless innocent others.
> Children in such families should be challenged
> by relatives through the Courts to save the lives
> of our endangered offspring. Again, without water
> or food, Iraqi children are murdered by Neoconner
> grunts irrationally everyday with nothing to say,
> aka, without reason but as Satanic Bush whores, to
> make our God as Humanity suffer further for their
> escapes as actually selling freely, lawless zionist
> savagery.
>
> KILLING MORE OF THEM - reporting war crimes to the
Policehttp://www.youtube.com/watch?v=gB-KaIBDNJw
>
> Again, a bushite has no commitment to defend

> America, for it speaks nothing for the arrest of
> the neocon traitors. traitors like themselves whom
> will murder innocent folks like your Self to steal
> our common values. Wouldn't you glory in seeing
> these savage grunts who on video, indiscriminately
> shoot innocent families, or bomb a city entirely,
> executed by Christian Patriot firing squads? or
> televised to fry in the electric chair for these
> documented war crimes? I sure would. It would make
> our world a much safer place to raise a family
> secure in knowing, bushite grunts as enemies of
> everyone, were hunted to extinction for their
> crimes against our Humanity. Hunted by Johnny Law,
> the True Spirit of America.
>
> Johnny Law for Coast to Coast radio Host!
>
> yaahhh im a real person! Wow eh? Now,
> let US bag some bushite scum for the Gipper.
>
> UK judges accuse Obama Administration of suppressing torture
claimhttp://www.timesonline.co.uk/tol/news/uk/article5661291.ece
>
> Yeah really. What kinda world does Obama take US
> for here? Does he actually believe we hold no
> interest in being attacked as ourselves, the
> innocent forsaken? A reminder: an American was
> executed under Iraqi law without any evidence
> brought against the accused, while the grunts
> were offered an excuse to seek not the culprits
> at the terror scene. The case was lightly reviewed
> at democracynow, a year or two ago, and can be
> found by searching for a grunt pretending to be
> an ambassador to Romania. A case where the Judge's
> life was threatened by a "General", where if he
> didn't order the death of the innocent American
> citizen, the grunt with the General would murder
> US all right then and there. The Innocent American
> was murdered as forsaken for value shared by
> free men.
>
> -
>
> (pet bed cat trees...)http://www.petbed-cattree.com/cat.html
>
> Hey! this stuff for cats and dogs looks pretty
> coool. Check it out if your a pet lover!
>
> Near Impossible to believe!
>

> / / "similar themes go through all our streams. And it all
> comes back as Confucius says, "Do unto others, as you would
> have them do unto you." And Christ said that, Hillel said
> that, Buddha said that, everybody says that, cause that's all
> it is. But bushite, he wants to accuse People of criminal
> offenses without any evidence, and indiscriminately slaughter
> everybody in countries, for no good reason but to be OUR
> ENEMY, an ENEMY OF ALL PEOPLE." \ \
>
> -
>
> AG Holder-- First, Jail All Bush's Lawyershttp://www.consortiumnews.com/2009/020309.html
>
> For actual documented criminal actions against
> American interests in defending ourselves from
> indiscriminate ...
>
> read more »

fuck you dickhead. Go get cancer of the throat and die a lingering
painful death.

921. Re: Traitor Bush closed 911 investigations immediately according to the FBI and Senator Daschle - Man, Mr. Bush Jr.'s WHORES sure are wicked evil letting the demon enemy of Life escape eh? - Bushite War LIFE Itself - 'Alpha company patrols the poppy fields

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 18:17:46 UTC
From: Dave <Dave@mediacom.net>
Message-ID: <gr_jl.15785$YU2.7939@nlpi066.nbdc.sbc.com>
Source record: 17745
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

WHY DON'T YOU ALL GET A LIFE AND USE THIS NEWSGROUP FOR WHAT IT'S INTENDED FOR!!!!!! HAM RADIO I THOUGHT!

<mopeyzakween@yahoo.com> wrote in message news:978a6946-acda-4b1f-ab97-580efc723c68@p23g2000prp.googlegroups.com...
On Feb 9, 7:25 am, Johnny America - No evidence against an accused is US being truly abused <nomailhere...@hotmail.com> wrote:
> Private Banking Made Simple
>
> http://www.megaupload.com/?d=0K03GAVYhttp://www.mediafire.com/?xo9w32zmfox
>
> I must be on crazy pillshttp://www.uruknet.de/?p=m51615&hd=&size=1&l=e
>
> / / Well, why haven't the banks just returned
> the money?... \ \
>
> People who know they defeat all "Conservatives"
> in seconds with indisputable simple logic, will
> eventually rule the Universe, if CNN, CBC, and
> Alex Jones allow open communications on what is
> understood by all as high acts of treason openly
> committed without a defense of smart people
> explaining why/how we are being rooked as idiots
> on purpose. Crazy man, crazy. Oh.. anda..
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> Oh, logic like, "Buying in bulk is cheaper."
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> Hey! Johnny's new theme song playing when
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> Saddam not letting inspectors in, Bush never won an
> word fairly in his entire war crime life of

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> the godless bushite enemy, is to love Justice
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> 9/11: Total Proof That Bombs Were Planted In The
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> VIEWS: 10,100,000
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> King Johnny Speaks Coast to Coast! Answers
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>
> Five Dancing Israelis Arrested On
> 9/11http://www.youtube.com/watch?v=tRfhUezbKLw&e
>
> TWO CENTS FROM JOHNNY
>
> http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3http://www.mediafire.
com/?sharekey=bba3db86f772190bd2db6fb9a8902bdahttp://boston.indymedia.org/usermedia/audio/
10/Two_Cents_from_Johnny.mp3http://milwaukee.indymedia.org/media/2008/07//210039.mp3http:/
/miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3http://argentina.indymedia.o
rg/uploads/2008/07/two_cents_from_johnny.mp3http://media.indypgh.org/uploads/2008/07/two_c

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> LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
> Evidencehttp://www.democraticunderground.com/discuss/duboard.php?az=view_all&...
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> innocent Human beings.
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> joke. Wow. Profound.
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> -
>
> Israelis forced mother to choose which of her children would
> diehttp://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-...

>
> / / the soldiers told her she had to choose five of
> her children to ï¿½give as a gift to Israel.ï¿½ As
> she screamed in horror they repeated the demand
> and told her she could choose or they would choose
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> children in front of her. \ \
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> Funded by the American tax payers as a gift to
> God as our stolen Humanity. Equal rights for all,
> especially the Taliban's position in defense of
> America, demanding evidence to form our guilty
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>
> -
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> Obama Accused of Blackmail over Terror Trial
> Evidencehttp://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-te...
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> penalty under American STANDING Law.
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> Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
> Bikehttp://www.liveleak.com/view?i=99c_1233639102
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> Maybe fifteen if the dumfuk grunt, back from the
> war against Iraqi children as a traitor to American
> values, shows no remorse for his crimes against an
> American women either. Absolutely any cop or soldier
> who disagrees as true contempt for our freedoms with
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> Iraqis for the escape of the neocons for 911 is no
> father. And a wife should get the hell away from
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> Children in such families should be challenged
> by relatives through the Courts to save the lives
> of our endangered offspring. Again, without water
> or food, Iraqi children are murdered by Neoconner
> grunts irrationally everyday with nothing to say,
> aka, without reason but as Satanic Bush whores, to
> make our God as Humanity suffer further for their
> escapes as actually selling freely, lawless zionist
> savagery.
>

> KILLING MORE OF THEM - reporting war crimes to the
> Policehttp://www.youtube.com/watch?v=gB-KaIBDNJw
>
> Again, a bushite has no commitment to defend
> America, for it speaks nothing for the arrest of
> the neocon traitors. traitors like themselves whom
> will murder innocent folks like your Self to steal
> our common values. Wouldn't you glory in seeing
> these savage grunts who on video, indiscriminately
> shoot innocent families, or bomb a city entirely,
> executed by Christian Patriot firing squads? or
> televised to fry in the electric chair for these
> documented war crimes? I sure would. It would make
> our world a much safer place to raise a family
> secure in knowing, bushite grunts as enemies of
> everyone, were hunted to extinction for their
> crimes against our Humanity. Hunted by Johnny Law,
> the True Spirit of America.
>
> Johnny Law for Coast to Coast radio Host!
>
> yaahhh im a real person! Wow eh? Now,
> let US bag some bushite scum for the Gipper.
>
> UK judges accuse Obama Administration of suppressing torture
> claimhttp://www.timesonline.co.uk/tol/news/uk/article5661291.ece
>
> Yeah really. What kinda world does Obama take US
> for here? Does he actually believe we hold no
> interest in being attacked as ourselves, the
> innocent forsaken? A reminder: an American was
> executed under Iraqi law without any evidence
> brought against the accused, while the grunts
> were offered an excuse to seek not the culprits
> at the terror scene. The case was lightly reviewed
> at democracynow, a year or two ago, and can be
> found by searching for a grunt pretending to be
> an ambassador to Romania. A case where the Judge's
> life was threatened by a "General", where if he
> didn't order the death of the innocent American
> citizen, the grunt with the General would murder
> US all right then and there. The Innocent American
> was murdered as forsaken for value shared by
> free men.
>
> -
>
> (pet bed cat trees...)http://www.petbed-cattree.com/cat.html
>
> Hey! this stuff for cats and dogs looks pretty

> coool. Check it out if your a pet lover!
>
> Near Impossible to believe!
>
> / / "similar themes go through all our streams. And it all
> comes back as Confucius says, "Do unto others, as you would
> have them do unto you." And Christ said that, Hillel said
> that, Buddha said that, everybody says that, cause that's all
> it is. But bushite, he wants to accuse People of criminal
> offenses without any evidence, and indiscriminately slaughter
> everybody in countries, for no good reason but to be OUR
> ENEMY, an ENEMY OF ALL PEOPLE." \ \
>
> -
>
> AG Holder-- First, Jail All Bush's
> Lawyershttp://www.consortiumnews.com/2009/020309.html
>
> For actual documented criminal actions against
> American interests in defending ourselves from
> indiscriminate ...
>
> read more ï¿½

fuck you dickhead. Go get cancer of the throat and die a lingering
painful death.

922. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 18:51:16 UTC
From: dplatt@radagast.org
Message-ID: <4ia666-1t3.ln1@radagast.org>
Source record: 17747

>I read that old 78 LP's broken into pieces & mixed with a particular solvent
>was used as coil dope. Does anybody remember which solvent was used & how
>affective it was?

78s were often made of shellac, and the usual solvent for shellac is
denatured alcohol. I believe that some other 78s were made from
cellulose acetate... for this material I believe that acetone would be
a usable solvent.

My understanding is that commercial Q-dope uses polystyrene, dissolved
in a suitable solvent.

According to an article by Barry Ornitz WA4VQZ (the text is at
http://yarchive.net/electr/coil_dope.html), a very acceptable coil
dope can be home-brewed by dissolving ordinary polystyrene "packing
peanuts" in either toluene or acetone (the latter is less toxic).

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

923. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 18:54:57 UTC
From: dloydlavies@gmail.com
Message-ID: <q17vo4tog9fb3dsoap83gvu79v566bfb8f@4ax.com>
Source record: 17746
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

924. Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 21:26:47 UTC
From: Howard Kowall <hkowall@shaw.ca>
Message-ID: <za1kl.5909$_A2.1419@newsfe22.iad>
Source record: 17748

Hello all
What determines the Velocity Factor of a coax cable.
Is it the center conductor awg,dielectric,shield or all combined
I am building a
Lindenblad Antenna for 2 Meters

its asked to use

RG-59 polyethylene foam coax with stranded center conductor

I think the VF is .66

I cant find any stranded center cond where I am,so I want to try it with
Solid,but it seems all the solid is VF .88

anyone have any input on this

thanx

howard

925. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 21:30:50 UTC
From: Howard Kowall <hkowall@shaw.ca>
Message-ID: <oe1kl.5910$_A2.5384@newsfe22.iad>
Source record: 17749

sorry I should mention the RG-59 is used for impedance matching not feed
line
thanks again
Howard

"Howard Kowall" <hkowall@shaw.ca> wrote in message
news:za1kl.5909$_A2.1419@newsfe22.iad...
> Hello all
> What determines the Velocity Factor of a coax cable.
> Is it the center conductor awg,dielectric,shield or all combined
> I am building a
> Lindenblad Antenna for 2 Meters
>
> its asked to use
>
> RG-59 polyethylene foam coax with stranded center conductor
>
> I think the VF is .66
>
> I cant find any stranded center cond where I am,so I want to try it with
> Solid,but it seems all the solid is VF .88
>
> anyone have any input on this
>
> thanx
>
> howard
>
>
>
>
>
>

926. Re: TV distribution equipment (advert)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 22:23:21 UTC
From: "D. Stussy" <spam@bde-arc.ampr.org>
Message-ID: <gmqad1lql1@snarked.org>
Source record: 17750

"Bill Wright" <insertmybusinessname@f2s.com> wrote in message
news:RrydnVQ0d7G2rQ3UnZ2dnUVZ8rmWnZ2d@pipex.net...
> "D. Stussy" <spam@bde-arc.ampr.org> wrote in message
> news:gmnlo4ruk1@snarked.org...
> > "Bill Wright" <insertmybusinessname@f2s.com> wrote in message
> > news:BuydnQIuau1-oxLUnZ2dnUVZ8rydnZ2d@pipex.net...
> >> There's a sale of second-hand TV distribution equipment here.
> >
> > Wrong group - SPAMMER.
>
> Well actually, no. The stuff is likely to be of interest to some radio
> amateurs. It is RF gear after all. Many amateurs have electronics
abilities
> which would enable them to use the equipment for its intended purpose, or
> modify it for amateur radio use.

"Rec.radio.swap" is the group it should have been posted in according to
your explanation above. It's still SPAM in this group.

927. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 22:37:52 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <udydnUdkUd_bLQ3UnZ2dnUVZ8gOdnZ2d@bt.com>
Source record: 17551

"Howard Kowall" <hkowall@shaw.ca> wrote in message
news:oe1kl.5910$_A2.5384@newsfe22.iad...
> sorry I should mention the RG-59 is used for impedance matching not feed
> line
> thanks again
> Howard
>
> "Howard Kowall" <hkowall@shaw.ca> wrote in message
> news:za1kl.5909$_A2.1419@newsfe22.iad...
>> Hello all
>> What determines the Velocity Factor of a coax cable.
>> Is it the center conductor awg,dielectric,shield or all combined
>> I am building a
>> Lindenblad Antenna for 2 Meters
>>
>> its asked to use
>>
>> RG-59 polyethylene foam coax with stranded center conductor
>>
>> I think the VF is .66
>>
>> I cant find any stranded center cond where I am,so I want to try it with
>> Solid,but it seems all the solid is VF .88
>>
>> anyone have any input on this
>>
>> thanx
>>
>> howard

It's principally the relative permittivity of the dielectric that determines the velocity factor. Air alone would yield a value of unity but the presence of a spacer of some sort means practical values are smaller. Foam can get close to air.

I wonder why you need a Lindenblad for 2 metres - do you really need good circular polarisation over a range of elevation angles (and omni HRP, of course)?

Chris

928. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 23:09:17 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <4990b851$0$7377$afc38c87@news.optusnet.com.au>
Source record: 17552

Jeff Liebermann wrote:
> Coil dope can be made from polystyrene packing peanuts dissolved in
> acetone.

Beware; this produces significant quantities of styrene monomer,
a known carcinogen.

929. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-09 23:24:34 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <8a2735d5-d1e3-4c75-ae72-45971983af0e@i24g2000prf.googlegroups.com>
Source record: 17553

On Feb 9, 3:26 pm, "Howard Kowall" wrote:
> What determines the Velocity Factor of a coax cable.
> Is it the center conductor awg,dielectric,shield or all combined
> I am building a Lindenblad Antenna for 2 Meters.

The velocity of propagation (v.p.) in each branch of the feed harness won't affect the relative field radiation pattern of such an antenna array as long as the same electrical lengths of coax are used between the power divider outputs and the feedpoint of each element of the array.

The v.p. of the main transmission line from the tx to the input of of the antenna power divider in this scenario is irrelevant.

RF

930. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 00:22:49 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <0T3kl.15845$YU2.8449@nlpi066.nbdc.sbc.com>
Source record: 17554

Clifford Heath wrote:
> Jeff Liebermann wrote:
>> Coil dope can be made from polystyrene packing peanuts dissolved in
>> acetone.
>
> Beware; this produces significant quantities of styrene monomer,
> a known carcinogen.
only in Canadian rats

931. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 00:44:57 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <d64kl.2257$eK2.1971@nwrddc01.gnilink.net>
Source record: 17555

"Howard Kowall" <hkowall@shaw.ca> wrote in message
news:za1kl.5909$_A2.1419@newsfe22.iad...
> Hello all
> What determines the Velocity Factor of a coax cable.
> Is it the center conductor awg,dielectric,shield or all combined
> I am building a
> Lindenblad Antenna for 2 Meters
>
> its asked to use
>
> RG-59 polyethylene foam coax with stranded center conductor
>
> I think the VF is .66
>
> I cant find any stranded center cond where I am,so I want to try it with
> Solid,but it seems all the solid is VF .88
>
> anyone have any input on this
>
> thanx
>
> howard

Hi Howard

I am interested in reception of CP signals from all points within the
upper hemisphere. I am curious about your purpose for this Lindenblad.

Jerry KD6JDJ

932. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 01:10:28 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <5L-dnVu0tpGXSQ3UnZ2dnUVZ8hmdnZ2d@bt.com>
Source record: 17556

```
"Jerry" <jerrymartes@verizon.net> wrote in message
news:d64kl.2257$eK2.1971@nwrddc01.gnilink.net...
>
> "Howard Kowall" <hkowall@shaw.ca> wrote in message
> news:za1kl.5909$_A2.1419@newsfe22.iad...
>> Hello all
>> What determines the Velocity Factor of a coax cable.
>> Is it the center conductor awg,dielectric,shield or all combined
>> I am building a
>> Lindenblad Antenna for 2 Meters
>>
>> its asked to use
>>
>> RG-59 polyethylene foam coax with stranded center conductor
>>
>> I think the VF is .66
>>
>> I cant find any stranded center cond where I am,so I want to try it with
>> Solid,but it seems all the solid is VF .88
>>
>> anyone have any input on this
>>
>> thanx
>>
>> howard
>
> Hi Howard
>
> I am interested in reception of CP signals from all points within the
> upper hemisphere. I am curious about your purpose for this Lindenblad.
>
> Jerry KD6JDJ

Ever tried crossed 'wilted' dipoles?

Chris
```

933. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 03:13:29 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <keh1p49d76arib828idinl7uu234i64ahb@4ax.com>
Source record: 17557

On Mon, 9 Feb 2009 15:30:50 -0600, "Howard Kowall" <hkowall@shaw.ca>
wrote:

>sorry I should mention the RG-59 is used for impedance matching not feed
>line
>thanks again
>Howard
>
>"Howard Kowall" <hkowall@shaw.ca> wrote in message
>news:za1kl.5909$_A2.1419@newsfe22.iad...
>> Hello all
>> What determines the Velocity Factor of a coax cable.
>> Is it the center conductor awg,dielectric,shield or all combined
>> I am building a
>> Lindenblad Antenna for 2 Meters
>>
>> its asked to use
>>
>> RG-59 polyethylene foam coax with stranded center conductor
>>
>> I think the VF is .66
>>
>> I cant find any stranded center cond where I am,so I want to try it with
>> Solid,but it seems all the solid is VF .88

You might want to consider using RG-6/u instead of RG-59. These daze,
the quality of RG-59 coax is rather marginal. I've seen 80% coverage
shielding and cable unsuitable for outdoor use. Meanwhile, the CATV
people have switched to RG-6/u for everything. Much of it is quad
shielded and UV resistant. Velocity factor is usually 0.66 for solid
dielectric and anywhere between 0.7 and 0.9 for various foam
dielectric mixes. When you find a suitable piece of cable, grab the
manufacturer and full part number. Then, lookup the VF on the mfg
data sheet.

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

934. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 03:25:41 UTC
From: Howard Kowall <hkowall@shaw.ca>
Message-ID: <3r6kl.8554$wF7.5883@newsfe16.iad>
Source record: 17558

hello all
thanks all who read and emailed back
lot of good info came in and I have a good handle on it
I am building this antenna for rhcp portable satellite antenna for LEO Ham
Radio Sat
thanks again
Howard

"Howard Kowall" <hkowall@shaw.ca> wrote in message
news:za1kl.5909$_A2.1419@newsfe22.iad...
> Hello all
> What determines the Velocity Factor of a coax cable.
> Is it the center conductor awg,dielectric,shield or all combined
> I am building a
> Lindenblad Antenna for 2 Meters
>
> its asked to use
>
> RG-59 polyethylene foam coax with stranded center conductor
>
> I think the VF is .66
>
> I cant find any stranded center cond where I am,so I want to try it with
> Solid,but it seems all the solid is VF .88
>
> anyone have any input on this
>
> thanx
>
> howard
>
>
>
>
>
>

935. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 03:37:27 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <VbGdnaP3gdFlaA3UnZ2dnUVZ_s3inZ2d@posted.easystreetonline>
Source record: 17559

I've found quite a variation in foamed dielectric cable velocity factor from lot to lot of the same brand and type, even with major brands. Apparently they don't control the density of the dielectric very well. So if you're planning on using foamed dielectric cable in an application where VF is important, I highly recommend that you measure the VF of a sample from the same piece you'll be using.

Roy Lewallen, W7EL

936. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 04:09:13 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <J57kl.2325$eK2.946@nwrddc01.gnilink.net>
Source record: 17560

"Howard Kowall" <hkowall@shaw.ca> wrote in message
news:3r6kl.8554$wF7.5883@newsfe16.iad...
> hello all
> thanks all who read and emailed back
> lot of good info came in and I have a good handle on it
> I am building this antenna for rhcp portable satellite antenna for LEO
> Ham Radio Sat
> thanks again
> Howard
>
> "Howard Kowall" <hkowall@shaw.ca> wrote in message
> news:za1kl.5909$_A2.1419@newsfe22.iad...
>> Hello all
>> What determines the Velocity Factor of a coax cable.
>> Is it the center conductor awg,dielectric,shield or all combined
>> I am building a
>> Lindenblad Antenna for 2 Meters
>>
>> its asked to use
>>
>> RG-59 polyethylene foam coax with stranded center conductor
>>
>> I think the VF is .66
>>
>> I cant find any stranded center cond where I am,so I want to try it with
>> Solid,but it seems all the solid is VF .88
>>
>> anyone have any input on this
>>
>> thanx
>>
>> howard

Hi Howard

The Lindenblad has an overhead null that you might find anoying for some
high elevation passes of LEOs.
Are you open to trying to build a DCA (which is an antenna that I
developed)? I make the claim that there is no other hemispheric coverage
antenna design that performs better than a DCA. But, I sure am open to
being corrected.
The Feb 2008 QST contains an article on the DCA antenna design concept.
It is my claim that a DCA is extreemely forgiving of construction errors
and uses 4 wire dipoles and 50 ohm coax with 5 RFI type ferrites as
"baluns'.

Jerry KD6JDJ

937. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 04:14:02 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <qiv1p4lvsgk3krl853kg2aua48f290s2d3@4ax.com>
Source record: 17561

On Tue, 10 Feb 2009 10:09:17 +1100, Clifford Heath
<no@spam.please.net> wrote:

>Jeff Liebermann wrote:
>> Coil dope can be made from polystyrene packing peanuts dissolved in
>> acetone.

>Beware; this produces significant quantities of styrene monomer,
>a known carcinogen.

That seems to be debatable:
<http://www.styrenemonomer.org/3.5.html>
Of course, that comes from the Styrene Products Association, which
might be slightly biased.

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

938. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 05:47:24 UTC
From: Harry H <harryharms@hotmail.com>
Message-ID: <Mx8kl.19129$cu.18448@news-server.bigpond.net.au>
Source record: 17562

>
> The Lindenblad has an overhead null that you might find anoying for some
> high elevation passes of LEOs.
> Are you open to trying to build a DCA (which is an antenna that I
> developed)? I make the claim that there is no other hemispheric coverage
> antenna design that performs better than a DCA. But, I sure am open to
> being corrected.
> The Feb 2008 QST contains an article on the DCA antenna design concept.
> It is my claim that a DCA is extreemely forgiving of construction errors
> and uses 4 wire dipoles and 50 ohm coax with 5 RFI type ferrites as
> "baluns'.
>
> Jerry KD6JDJ
Given the fact I don't subscribe to QST, domicile Australia, would you have
a copy of the article?

HH

939. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 05:54:23 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <jE8kl.2350$eK2.537@nwrddc01.gnilink.net>
Source record: 17563

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:VbGdnaP3gdFlaA3UnZ2dnUVZ_s3inZ2d@posted.easystreetonline...
> I've found quite a variation in foamed dielectric cable velocity factor
> from lot to lot of the same brand and type, even with major brands.
> Apparently they don't control the density of the dielectric very well. So
> if you're planning on using foamed dielectric cable in an application
> where VF is important, I highly recommend that you measure the VF of a
> sample from the same piece you'll be using.
>
> Roy Lewallen, W7EL

I second that Roy,
Each time we start a new spool (same mfg) we have to remeasure the V.F.-
RG-11U foam.
I too believe it is the foam density that is not well controlled.

Dale W4OP

940. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 06:07:15 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <iQ8kl.22187$Dx3.18344@newsfe21.iad>
Source record: 17564

"Dave Platt" <dplatt@radagast.org> wrote in message
news:4ia666-1t3.ln1@radagast.org...
> >I read that old 78 LP's broken into pieces & mixed with a particular
> >solvent
>>was used as coil dope. Does anybody remember which solvent was used & how
>>affective it was?
>
> 78s were often made of shellac, and the usual solvent for shellac is
> denatured alcohol. I believe that some other 78s were made from
> cellulose acetate... for this material I believe that acetone would be
> a usable solvent.
>
> My understanding is that commercial Q-dope uses polystyrene, dissolved
> in a suitable solvent.

Toluene.

> According to an article by Barry Ornitz WA4VQZ (the text is at
> http://yarchive.net/electr/coil_dope.html), a very acceptable coil
> dope can be home-brewed by dissolving ordinary polystyrene "packing
> peanuts" in either toluene or acetone (the latter is less toxic).

Thanks for mentioning this archive Dave. I strongly suggest that before anyone tries making their own Q-dope, they read ALL the safety information given there. And yes it really does take several weeks for the "cotton balls" to fully dissolve.

What I think that "Spin" was referring to was that early pressings were made from cellulose acetate. Acetone would be the solvent of choice here. I was not aware that phenol formaldehyde thermoset resins were ever used for records, but if you find any, they won't dissolve in anything!

As for the worry that when Styrofoam is dissolved in a solvent, styrene is released - forget about it. Styrene is rather volatile and has a VERY distinctive odor. You would smell it if more than a trace amount were left in the peanuts. Polystyrene does not depolymerize by dissolving it in a solvent.

Devcon's Duco Cement is nitrocellulose dissolved in acetone with a little camphor as a plasticizer and with small amounts of isopropanol and 1-methoxy-2-propanol acetate thrown in for good measure. If you only need a few ounces of Q-dope, Duco Cement is a suitable substitute.

Roy Lewallen, W7EL, dipped a number of coils in various materials (RTV silicone, epoxy cement, Q-dope, hot melt adhesive, etc.) a while back and then measured their losses with a Q-meter. If Roy can find his old

article, perhaps he can post it again.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

941. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:45:52 UTC
From: k3vr@hotmail.com
Message-ID: <c5c2p4lgg87i9eovaoog5vrv7qh5dgqs09@4ax.com>
Source record: 17565
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

942. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:46:19 UTC
From: dloydlavies@gmail.com
Message-ID: <66c2p456o5nf7nvliggk6g1da391rtnc3k@4ax.com>
Source record: 17566
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sun, 08 Feb 2009 21:44:17 -0500, dloydlavies@gmail.com wrote:

>On Sat, 7 Feb 2009 22:00:19 -0800 (PST), "w4nti@live.com"
><w4nti@live.com> wrote:
>
>>On Feb 6, 8:51ï¿½pm, "Not Mark" <anon@anon> wrote:
>>> Roger's taxes on his Castle just went down. Mark wants to buy the house
>>> across the street so he and Roger can be closer.
>>>
>>> http://whywogersucks.blogspot.com
>>radio content

943. Re: Better then Tele-Zapper(tm)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:50:41 UTC
From: k3vr@hotmail.com
Message-ID: <7ec2p4hqb356sebqdenbac979s4tqbi30c@4ax.com>
Source record: 17567
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 25 Jan 2009 16:35:25 -0500, dloydlavies@hotmail.com wrote:

>On Sun, 14 Dec 2003 05:09:00 -0500, Radioman <radio@ptt.edu> wrote:
>
>>> Cheapest spam killer I've yet found and I don't have to get on anyone's
>>> list either.
>>
>>
>>I find starting my message with the three-tone wrong number sound works real good.
>>
>>No ID, to the message you go...
>>
>>
>>Snowing like a big dog here. We're at the inch an hour rate.

944. Re: Cash for 'net connection.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:51:22 UTC
From: k3vr@hotmail.com
Message-ID: <jfc2p4ha8gj13mnk6otrbmun9ed5qqo2j3@4ax.com>
Source record: 17568
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 25 Jan 2009 16:35:24 -0500, dloydlavies@hotmail.com wrote:

>On Sun, 07 Dec 2003 05:36:35 -0700, Dean Arthur
><dearthur@silverstar.com> wrote:
>
>>"Dee D. Flint" wrote:
>>>
>>> "Guy P. Distaffen" <guypd@bigfoot.com> wrote in message
>>>...
>>>...
>>>
>>> By law ALL must [accept payment in cash]. However it is generally very inconvenient.
For
>>> example the offices of my "local" ISP are 50 miles away.
>>>
>>Mine is only eight miles away for recumbent mobile, KA6SQD, here in Star
>>Valley on western border of Wyoming. A good heart and muscle exercising
>>pedal from Etna to Thayne and back on BikeE.

945. Re: Radio Shack® demands SSN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:51:33 UTC
From: k3vr@hotmail.com
Message-ID: <vfc2p4lp1d6snolk2ofcsvkj3225aaq7vt@4ax.com>
Source record: 17569
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 25 Jan 2009 16:35:24 -0500, dloydlavies@hotmail.com wrote:

>On Tue, 25 Nov 2003 16:08:15 GMT, Gnarlodious
><gnarlodiousNULL@VOID.invalid.yahoo.com> wrote:
>
>>Entity Topaz305RK spoke thus:
>>
>>> In Montana your SSN is your drivers license number
>>Expect that to change as Identity Theft takes its toll.
>>Washington AND New Mexico outlawed it, now you have a Motor Vehicle assigned
>>ID.
>>
>>http://www.qsl.net/k5zn/

946. Re: KC8QJP and N8WWM Glory Hole Party - KC8QJP will be offering discount tax consulting through the gloryhole while N8WWM is on his knees

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:51:45 UTC
From: k3vr@hotmail.com
Message-ID: <agc2p4l6gk2f6apeumgbi8re2a3c18uodn@4ax.com>
Source record: 17570
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Wed, 21 Jan 2009 14:00:37 -0500, "RF BURNS" <rfburns33@hotmail.com>
wrote:

>
>"zoltan" <zoltan@zoltan.com> wrote in message
>news:6jgVk.11173$qh4.10597@newsfe04.iad...
>>
>> "n8wwm mrbindwell (fatboy)" <dougay@nospam.com> wrote in message
>> news:gcgpfa$ct7$1@news.mixmin.net...
>>>
>>> "Leland C Scott" <kc8ldo@madisonhts.com> wrote in message
>>> news:gc086k$u0v$1@news.tornevall.net...
>>>> "n8wwm mrbindwell (fatboy)" wrote:
>>>>
>>>> http://img254.imageshack.us/my.php?image=dougpetro3yk1.jpg
>>>>
>>>>> Pick up some crisco on your way over tonight, KC8QJP needs a good
>>>>> slathering on her hind quarters.
>>>>>
>>>>> She's also getting ready to start her tax return posts again like she
>>>>> does every year. You remember those..
>>>>>
>>>>> http://tinyurl.com/46teqq
>>>>>
>>>>> She says she wants to add some pics of her and me to them this year.
>>>>>
>>>>>
>>>>>
>>>> Cool!
>>>>
>>> they're having it over here, queerboy.
>>>
>>> Lance & Lisa Adair
>>> 10431 Jackman Rd
>>> Temperance, MI 48182-9629
>>> (734) 854-2426
>>>
>>>
>> n8wwm is a convicted criminal
>>
>>
>N8WWM is a shut in loser.

>

947. Re: New Coaxial Products Catalog

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:51:54 UTC
From: k3vr@hotmail.com
Message-ID: <kgc2p455piajdj7d0p41jqgtmmpdj7er55@4ax.com>
Source record: 17571
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 20 Jan 2009 11:13:59 -0800 (PST), RF King
<TravisCurrier@gmail.com> wrote:

>New Coaxial Products Catalog
>
>**CABLE ASSEMBLIES**CONNECTORS**ADAPTERS**ATTENUATORS**RF
>COMPONENTS**TOOLS**BULK COAX CABLE**
>
>
>NEW CATALOG:
>
>http://www.aaarfproducts.com/catalog/CATALOGSmallFile.pdf
>
>INVENTORY CLEARANCE SALE:
>
>http://www.aaarfproducts.com/catalog/CSAAARF4.pdf
>
>
>AAA RF Products
>Phone: 949-481-3154
>Email:sales@aaarfproducts.com
>Website: www.aaarfproducts.com
>Location: San Clemente, CA

948. Re: Tech Classes to start in Chesapeake, VA

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:52:02 UTC
From: k3vr@hotmail.com
Message-ID: <sgc2p4prt1s7dk6t3kg8m5qjm191r0um54@4ax.com>
Source record: 17572
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Mon, 19 Jan 2009 12:59:29 -0500, dloydlavies@hotmail.com wrote:

>On Sun, 25 Sep 2005 19:38:14 -0400, "Keith Ainsley" <kg4zxk@gmail.com>
>wrote:
>
>>Interested in Ham Radio?
>>
>>Would you like to become an FCC Licensed Amateur Radio Operator?
>>
>>The Chesapeake Amateur Radio Service (C.A.R.S.) is sponsoring a FREE
>>beginning level Amateur Radio Class.
>>
>>NO MORSE CODE REQUIRED
>>
>>This will be a FREE instructor lead four week course. Students will be
>>responsible for the cost of the book which is approximately $20.00
>>
>>Classes will be held 7:00 PM to 9:00 PM TUESDAY and THURSDAY evenings at the
>>CARS club house located at 116 Reservation Road, Chesapeake, VA.
>>
>>The club house is located just one block west of the Great Bridge, Bridge.
>>
>>Classes convene Tuesday, October 11, 2005 and conclude with a testing
>>session on Saturday, November 5th 9:00 AM. at the club house. There is an
>>FCC required fee of $14.00 for the test.
>>
>>For more information on Amateur Radio visit http://www.arrl.org
>>For more information on CARS please visit our web site at
>>http://www.w4car.org
>>
>>Limited seating available. Please reserve your seat by calling 757-484-6047
>>or 757-641-8625 (If no answer at either number please leave message).
>>
>>Or email us at w4car@yahoo.com
>>
>>73
>>Keith Ainsley, KG4ZXK
>>President
>>Chesapeake Amateur Radio Service
>>
>>

949. Re: New 50 MHz Contest - Correction.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:52:11 UTC
From: k3vr@hotmail.com
Message-ID: <5hc2p49hl6ge2uvvqdkb0mo93ddvebaus5@4ax.com>
Source record: 17573
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Mon, 19 Jan 2009 12:59:28 -0500, dloydlavies@hotmail.com wrote:

>On Fri, 21 Jan 2005 00:25:38 +0100, "OZ50MHz Group" <oz50mhz@sol.dk>
>wrote:
>
>>SM6YOU have kindly made us aware that our calender does not match between 4 th. tuesday and the date announced.
>>We apollogise the fault - and brings the right calendar here:
>>
>> Contest calendar 2005.
>>
>> January 25 th.
>> February 22 nd.
>> March 22 nd.
>> April 26 th.
>> May 24 th.
>> June 28 th.
>>
>> July 26 th.
>> August 23 rd.
>> September 27 th.
>> October 25 th.
>> November 22 nd.
>> December 27 th.
>>
>>
>>
>>vy 73 de OZ50MHz Group.
>>
>> Contest - Accumulative.
>>
>> As from new year 2005 the Nordic activity contest (NAC 50 MHz) will move from 4 th tuesday in the month, to give space to a microwave contest ???, with very few contestants and NO open class. - This have been decided by the Nordic VHF committees lead by the EDR (OZ) VHF committee.
>> As this contest have been round for 12 years at the present date/time, we feel a valuable activity will be lost by moving it. Therefor the OZ50MHz Group have decided to establish an accumulative contest at the present evening so "business as usual" can be maintained.
>> To keep things as simple as possible, we will have rules very close to the NAC. This means a Open class high power and a open class low power section, a OZ high power and a OZ low power section.
>>

>> Contest calendar 2005.
>>
>> January 27 th.
>> February 24 th.
>> March 23 rd.
>> April 27 th.
>> May 25 th.
>> June 22 nd.
>>
>> July 27 th.
>> August 24 th.
>> September 28 th.
>> October 26 th.
>> November 23 rd.
>> December 28 th.
>>
>>
>>
>>
>> OZ50MHz Accumulative - Open Class section rules 2005.
>> OZ50MHz Accumulative - National section rules 2005.
>>
>> OZ50MHz Accumulative - Contest results. (up as soon as first results arrives)
>>
>> Please feel free to visit our website at http://oz50mhz.qrz.dk

950. Re: I passed my Technician Class Test.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:52:20 UTC
From: k3vr@hotmail.com
Message-ID: <ehc2p4l7l20jjhgkck0mtuqhcaecph9l2d@4ax.com>
Source record: 17574
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 18 Jan 2009 22:42:26 -0500, dloydlavies@gmail.com wrote:

>On Tue, 06 Jul 2004 14:24:55 -0500, David Fuller
><drfuller@hotmail.com> wrote:
>
>>I am very proud to announce that I have passed my Technician Class Exam
>>and since I previously had a novice class I also got the credit for that
>> as well.
>>
>>Dave F
>congrat a little late

951. Re: FS: Yaesu VX-1R Dual Band Micro Talkie

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:52:32 UTC
From: k3vr@hotmail.com
Message-ID: <phc2p4dgqcfd5h758fllkajmk6pf99bdo7@4ax.com>
Source record: 17575
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 18 Jan 2009 15:51:18 -0500, dloydlavies@gmail.com wrote:

>On Wed, 16 Jul 2003 00:46:14 GMT, "Anthony Mikulastik"
><wb5tty@hotmail.com> wrote:
>
>>I have a very clean Yaesu VX-1R Micro Talkie with 2 Lit-Ion batteries for
>>sale for only $99 shipped in USA. Contact Anthony, WB5TTY at
>>wb5tty@hotmail.com .
>>

952. Re: HTX-200

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:52:43 UTC
From: k3vr@hotmail.com
Message-ID: <5ic2p49hsbc22ku9u1611s0iv4s5luu3t3@4ax.com>
Source record: 17576
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 18 Jan 2009 15:51:17 -0500, dloydlavies@gmail.com wrote:

>On Tue, 1 Jul 2003 20:51:52 -0400, "Mike Yetsko" <joe@user.com> wrote:
>
>>
>>"Matt" <emt18325@bellsouth.net> wrote in message
>>news:Xns93ABA3ACCF912emt18325bellsouthnet@65.82.44.187...
>>> Only hours left!
>>>
>>> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3032460731
>>>
>>
>>Geesh, if you're going to be obnoxious enough to flood the groups with
>>your auction, at least be honest enough to say it's an auction in the
>>subject line.
>>
>>Or are you just as misleading about the radios condition?
>>

953. Re: Help!Need Spare for Emotator Rotator

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:52:54 UTC
From: k3vr@hotmail.com
Message-ID: <gic2p49ts71pjhjkndl9k4ts76659c68tl@4ax.com>
Source record: 17577
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 18 Jan 2009 15:51:17 -0500, dloydlavies@gmail.com wrote:

>On Sat, 5 Jul 2003 19:15:13 +0100, "Roger Wilson"
><rdwilson@dsl.pipex.com> wrote:
>
>>Hi All,
>>Thanks for looking
>>I am after a 600 ohm pot 1.5 watt so that a repair can be made to an
>>Emotator rotator (Model 103LBX) I believe that the same pot in used in all
>>there models.
>>It is made by a company called Violet Electric Co. Ltd in Japan (model 281)
>>this pot is rather unusual because it has no end stop & rotates 360 deg.
>>Should you have one surplus to requirement this would be great.
>>Or perhaps you might know of a source for some.
>>Any information will be appreciated.
>>
>>73's
>>
>>Roger G4IPE
>>
>>

954. Re: CQ ham vets: reminisce about dxing in the 1960s?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:53:33 UTC
From: k3vr@hotmail.com
Message-ID: <mjc2p45t7j8b94dndb6g8osa1ukt99ipj4@4ax.com>
Source record: 17578
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sat, 17 Jan 2009 23:44:10 -0500, dloydlavies@gmail.com wrote:

>On 12 Sep 2004 00:57:07 -0700, peter_donahue@hotmail.com (Milo Hearst)
>wrote:
>
>>Hello everyone:
>>I'm a young writer writing a story set in 1968 where one character, a
>>17 year old motorhead and ham, spends most of his time dxing--most of
>>his social life transpires on the air. If anyone has any memories of
>>the atmosphere or culture of ham radio in the late 1960s, I would
>>appreciate your input! I have done some reading, but nothing helps
>>like hearing it from the source.
>>Does anyone have any good stories? you know, anything like being
>>instrumental in an important nation-wide relay concerning an
>>emergency, etc? or making life-long friends with another ham in
>>siberia or algeria, etc.??? what sort of things would one talk about
>>on the air?
>>were more people keying and using phillips code, or using microphones?
>>was it "cool" in your hometown, or the arena of the "nerd"?
>>is there any way i could assign my fictional character call letters
>>without accidently using someone else's? (you know how on TV all phone
>>numbers have a 555 exchange so's not to accidently use someone's
>>number...)
>>any and all memories anyone can share would be greatly appreicated,
>>and of course I will acknowledge your help in the preface to the
>>story.
>>thanks and 73,
>> p. donahue

955. Re: Latest DX News (Corr.)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:53:42 UTC
From: k3vr@hotmail.com
Message-ID: <vjc2p4lg6dfc6kupaofianrak0peb0dlc9@4ax.com>
Source record: 17579
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sat, 17 Jan 2009 23:44:10 -0500, dloydlavies@gmail.com wrote:

>On Wed, 17 Nov 2004 18:21:18 +0100, "Madsen" <obmadsen@sol.dk> wrote:
>
>>CQ readerï¿½s.
>>
>>The DX information, General, Band reports & Editorial information sections of the DX info & QSPï¿½s at
>>
>>http://www.qsl.net/oz6om
>>
>>have just been updated (Nov 17 th.)
>>
>>vy 73 de OZ6OM "Matt"

956. Re: Latest DX News

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:53:54 UTC
From: k3vr@hotmail.com
Message-ID: <bkc2p4ds7vs1sgq34444e5l7otti6fcav3@4ax.com>
Source record: 17580
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sat, 17 Jan 2009 23:44:10 -0500, dloydlavies@gmail.com wrote:

>On Wed, 17 Nov 2004 17:11:06 +0100, "Madsen" <obmadsen@sol.dk> wrote:
>
>>CQ readerï¿½s.
>>
>>The DX information, General, Band reports & Editorial information sections of the DX info & QSPï¿½s at
>>
>>http://qsl.net/oz6om
>>
>>have just been updated (Nov 17 th.)
>>
>>vy 73 de OZ6OM "Matt"

957. Re: Help with 2 Meters

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:54:09 UTC
From: k3vr@hotmail.com
Message-ID: <qkc2p4t9lcg4vhr3qil7rnap0aacss0dcn@4ax.com>
Source record: 17581
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 16 Jan 2009 19:32:41 -0500, dloyd@gmail.com wrote:

>On Fri, 20 Oct 2006 22:38:39 -0400, SR <mercury@mfire.com> wrote:
>
>>Hello I am a new ham and i have a friend in
>>Parkersburg, West Virginia. He has a 2 meter radio and echolink.
>>
>>I do not have echolink.
>>
>>Does anyone know of a repeater close to where I am, that I
>>would be able to hit with my 2 meter radio Radio Shack HTX 202 144-148 MHZ.
>>
>>I live in Queens County NY.
>>
>>Any information or suggestions would be greatly appreciated.
>>
>>Thank you,
>>
>>73
>>
>>Steven

958. Re: crapathon conitues

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:54:48 UTC
From: k3vr@hotmail.com
Message-ID: <1mc2p49oq5bn0caj5439dnhrcrlabqmm9a@4ax.com>
Source record: 17582
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

```
On Fri, 16 Jan 2009 19:32:41 -0500, dloyd@gmail.com wrote:

>On Sun, 12 Nov 2006 00:42:49 -0500, Mark@kb9rqz.aprs wrote:
>
>>On Sun, 12 Nov 2006 01:18:41 GMT, Slow Code <my.mail@no.spam> wrote:
>>
>>>"Pat Stevens" <patstevens2@rochester.rr.com> wrote in
>>>news:DBj5h.11125$zB4.943@twister.nyroc.rr.com:
>>>
>>>>
>>>> "Slow Code" <my.mail@no.spam> wrote in message
>>>> news:L795h.5463$ig4.1314@newsread2.news.pas.earthlink.net...
>>>>> SR <mercury@mfire.com> wrote in
>>>>> news:12jj21865l0hed0@corp.supernews.com:
>>>> <snip>
>>>>> I'd check with people on repeaters you can hear and ask them. Someone
>>>>> should know unless they're also clueless no-coders.
>>>> <snip>
>>>>> SC
>>>>
>>>> Usually the no-code techs have a better idea as to how echolink and IRLP
>>>> work than most of the old-timers, because it is the only way that they
>>>> can access "long distance" radio. Most of the old-timers don't consider
>>>> it to be "real" radio and as such, are often stuck in their ways and
>>>> slow to accept the new form of communication on the service.
>>>
>>>
>>>Echolink isn't real radio, it's Retard DX.
>>
>>stop the crap sc
>>http://kb9rqz.blogspot.com/
```

959. Re: Modify old cell-phones for LOS TxRx ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:54:56 UTC
From: k3vr@hotmail.com
Message-ID: <bmc2p45ger46sqsclhhhh1h76tr8e6fvvm@4ax.com>
Source record: 17583
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 16 Jan 2009 19:32:40 -0500, dloyd@gmail.com wrote:

>On Thu, 18 May 2006 08:31:48 -0500, news@absamail.co.za wrote:
>
>>Why don't people modify old cell-phones for line-of-sight
>>TransCeivers ?
>>
>>Possibly for a network in 3rd world locations ?
>>
>>Thanks for info.
>>
>>== Chris Glur.

960. Re: FA: YAESU FT-847 ultra-compact satellite transceiver

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:55:07 UTC
From: k3vr@hotmail.com
Message-ID: <kmc2p4hlh4tbb4fftkkbbs2ud9fvmf2fdv@4ax.com>
Source record: 17584
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 16 Jan 2009 18:50:33 -0500, dloyd@gmail.com wrote:

>On Thu, 11 Dec 2008 08:46:51 -0700 (MST), DC
><nobody@pseudo.borked.net> wrote:
>
>>http://atu.ca/YaesuFT847

961. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 07:57:28 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <Irakl.2355$eK2.206@nwrddc01.gnilink.net>
Source record: 17585

"Harry H" <harryharms@hotmail.com> wrote in message
news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
> >
>> The Lindenblad has an overhead null that you might find anoying for some
>> high elevation passes of LEOs.
>> Are you open to trying to build a DCA (which is an antenna that I
>> developed)? I make the claim that there is no other hemispheric
>> coverage antenna design that performs better than a DCA. But, I sure am
>> open to being corrected.
>> The Feb 2008 QST contains an article on the DCA antenna design concept.
>> It is my claim that a DCA is extreemely forgiving of construction errors
>> and uses 4 wire dipoles and 50 ohm coax with 5 RFI type ferrites as
>> "baluns'.
>>
>> Jerry KD6JDJ
> Given the fact I don't subscribe to QST, domicile Australia, would you
> have a copy of the article?
>
> HH

Hi HH

It would be my pleasure to disclose any/all the information I have
relating to the DCA antenna design concept. It is simple. It is two pairs
of crossed dipoles. Each pair is spaced 1/4 wave apart and fed in phase.
One pair is physically mounted 90 degrees from the other pair. All four
dipoles are tilted 30 degtrees from vertical. One pair is fed 90 degrees
later than the other pair.
The concept is so simple and straightfoeward that it is probable that the
concept has been developed before I thought of it. But, I have been unable
to find anything published related to this simple "Double Cross Antenna"
I told my *Internet buddy*, Patrik Tast, in Finland about the concept and
he found it to be exactly what he needed for reception of NOAA weather
satellite signals. Patrik publishes alot of what I send him related to the
antenna. Patrik shows a section of his web page to describe the DCA to
anyone interested. You can find the QST article in the section Patrik
identifies as ANTENNAS on the first page of his site
http://www.poes-weather.com/index.php.

If you have any questions about the DCA concept you are free to E-mail me,
anytime. Or, if you have any facts or data to show where I am wrong about
how well this antenna performs, or know of something that performs better,
please set me straight.

Jerry KD6JDJ

962. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 10:53:49 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <QMydnby0CPygwQzUnZ2dnUVZ_h2WnZ2d@posted.easystreetonline>
Source record: 17586

Dr. Barry L. Ornitz wrote:
> . . .
> Roy Lewallen, W7EL, dipped a number of coils in various materials (RTV
> silicone, epoxy cement, Q-dope, hot melt adhesive, etc.) a while back
> and then measured their losses with a Q-meter. If Roy can find his old
> article, perhaps he can post it again.

Great memory, Barry! It was posted on Dec. 16, 1998. A copy of the original posting follows. I didn't do any other experiments as I said I would, and I've gotten very little confirming or contradictory feedback.

I recall you and some other folks posting some very good information about RTV, the general thrust of which was that there's a very wide range of formulations, so results might vary a lot from what I measured.

Spurred by recent comments and questions on this newsgroup, I made some inductors last weekend and measured them. Results follow.

Toroidal Inductor Measurements

Roy Lewallen, W7EL
December, 1998

Test Equipment

Inductance: GR 1606-A impedance meter. Stray series impedance was removed by initial calibration. Stray shunt capacitance was separately measured and removed mathematically. Repeatability is within about +/- 2%. No attempt was made to establish accuracy.

Q: A home-made fixture was used. This is simply an air-variable capacitor which the inductor is connected across. Coupling into and out of the fixture with signal generator and oscilloscope is done with very small capacitors. The Q is calculated from the center frequency and 3 dB bandwidth. Use of frequency counter, built-in oscilloscope voltmeter, and switchable 3 dB pad allow repeatability of about +/- 2%. Checks against a commercial Q meter show agreement within a few percent.

All measurements were made at 10 MHz.

Experiment 1: Coatings

Several identical inductors were fabricated, then coated with various compounds. Inductance and Q were measured before and after coating. The inductors were wound on Micrometals T-50-6 cores (Carbonyl SF

material, relative permeability 8.5) with 25 turns of #22 wire. This just fits on a single layer.

Ind. # Uncoated Coated Coating
L(uH) Q L(uH) Q

1 2.54 281 2.54 284 None (control)
2 2.52 286 2.54 218 Duco cement
3 2.51 267 2.52 265 Standard RTV
4 2.52 280
5 2.54 279 2.55 255 Clear hot melt glue
6 2.48 268 2.55 164 "Sealing tape"
7 2.51 283 2.51 262 Paraffin
8 2.55 262
9 2.56 281 2.59 278 GE Silicone II
10 2.50 283
11 2.51 277

Notes (by inductor number):

Unless otherwise noted, coatings covered the entire core and winding, extending more than a wire diameter beyond the outside of the wire, and the center of the core was filled.

Inductances within about 0.3 uH and Q's within less than about 5 should be considered equal.

1. Inductor Q was measured several times over several days to establish repeatability. Results were 280, 281, 283, 286, 284. (The apparent trend is interesting, but not conclusive.)
2. Devcon Duco(R) Cement, allowed to dry for 24 hours. Although a generous coating was applied, the dried coating was less than a wire diameter in thickness, and the center of the core wasn't filled.
3. Dap Dow Corning 100% Silicone Sealant, Clear, allowed to cure for 24 hours. This is standard acetic-acid (vinegar) curing RTV.
5. Stanley All Purpose GlueSticks, claimed set time 25-30 seconds. These are nearly clear, translucent white, and not tan or brown colored.
6. This was some stuff I got surplus. It's a black, sticky, rubbery compound something like Coax Seal, but may be of entirely different composition. It's in the form of a thick tape. It's soluble in naphtha (and the solution dyes everything black it gets on), but acetone doesn't touch it.
7. Household canning paraffin. (I don't know what it's called in Britain, but I'm not referring to the liquid -- kerosene to us -- you call paraffin. This is a common wax made from petroleum.)
9. GE Silicone II Household Glue & Seal, Clear. This is a non-acetic-acid curing RTV. Allowed to cure for two days. Still just a little soft even after this much curing.
11. This is the same core as #6. After the coated #6 was measured, the core was cleaned, the winding cut off, the core further cleaned, then a new winding put on.

Comments:

I had made some measurements years ago, but couldn't locate the results. I recall that standard RTV was poor (lowered Q noticeably) but that an industrial non-acetic-acid curing RTV was good. The results with standard RTV in this test were striking. Either a) the formulation of standard RTV has changed over the years, b) there are major differences among brands, or c) my memory is faulty.

I recall from my earlier tests that epoxy was quite poor, but this has to be qualified after the experience with RTV. There's a huge number of different types of epoxy, and some may be much worse than others. I might test some in the future, but didn't during this test.

I intend to test Q-dope in the future, but didn't have any on hand.

Conclusions:

Of the materials tested, both types of RTV stand out as having a negligible effect on inductor Q. Hot melt glue and paraffin have a small enough effect that they should be tolerable for many applications. Duco cement seriously degrades Q, even in a much thinner layer than the other coatings. The "sealing tape", tested out of curiosity, shows just how great a degradation can be caused by a poor coating.

None of the coatings made much of a change in apparent inductance. This implies that the reduction in Q is due primarily to dielectric loss rather than simple increase in capacitance due to the material's dielectric constant.

Note the difference in inductance and Q between inductors 6 and 11, which were wound on the same core. Apparently physical differences in the windings (perhaps such as tightness and conformance to the core, or uniformity of turn spacing) are a major contributor to differences between inductors. All the cores used in the test were ordered at the same time, so they may have come from the same batch and have relatively little variation. On the basis of just the comparison between numbers 6 and 11, it's entirely possible that most of the variation between inductors in this experiment is due to winding differences. The variation might be less if smaller wire with less stiffness is used.

Experiment 2: Turn Spacing

I believe it's well established that even a partial second layer can greatly reduce the Q of a toroidal inductor. But I had recently heard that optimum Q is achieved when the first layer isn't quite full, but rather has about a 30 degree gap in the winding, to reduce the capacitance between winding ends. To test this, I wound 23 turns of #22 wire on a T-50-6 core, and measured the Q with the turns pushed close together to make a gap (of about 30 degrees), and then spread to evenly distribute the turns completely around the core. Measured 10 MHz Q's were 272 and 284, respectively. (Inductances were 2.21 and

2.11 uH.) This one test doesn't by any means exhaust all the possibilities of core geometries, permeabilities, number of turns, and wire size, all of which may play a role. But if there's any advantage to leaving a gap, I believe it would be a small one. And in at least one case, it's slightly better not to.

Another test was run using 10 turns of the same size wire on the same core. With the turns pushed together (the winding covering less than half the core), Q was 213, L was 841 nH. With the turns spread evenly around the core, Q was 209 but the L had dropped to 505 nH. I reasoned that a more fair comparison would be with a winding of about the same inductance as the original close-spaced one. This required 15 turns when distributed around the core, and resulted in a Q of 257 and L of 924 uH. Here again, the Q is best when the turns are evenly distributed. Note that type 6 powdered iron has a very low relative permeability (8.5), so results might be different with higher-permeability materials. However, this is the material I usually use for high-Q inductors at HF, so I'm most interested in how it's affected.

Experiment 3: "Regressive" Winding

In the past, I've found what I thought was a moderate improvement in Q by "regressively" winding an inductor. To do this, you wind half the turns in the normal manner. Then you pass the wire through the hole, but to the opposite side of the inductor (with it ending up beside the first turn), then completing the winding from the vicinity of the first turn back toward the origination of the crossover. The result is an inductor with the two leads coming from points directly opposite each other. Stray capacitance is allegedly reduced by keeping the ends of the winding apart. An inductor wound in this manner with 25 turns of #22 wire measured Q = 285, L = 2.48 uH. This Q is on the high side, and the L on the low side, of the uncoated inductors measured in Experiment 1. I didn't try comparing with a standard winding on the same core, since the same number of turns wound on the same core at different times (e.g., inductors 6 and 11 in Experiment 1) were shown to come out differently from each other. My conclusion is that any Q improvement due to "regressive" winding is slight. Another claim for "regressive" winding is that it eliminates the "single turn" effect of toroidal inductors. A normal toroid will couple into its surroundings as though it consists of a single turn the size of the core. In the "regressively" wound inductor, there are two half-turns in opposite directions, so coupling should be reduced. I haven't tested this in any way, but it may be an argument in favor of the method. The relatively long wire of the crossover turn would contribute to coupling, however.

I'll undertake more experiments and measurements as time permits. I'd love to hear from anyone who has made either supporting or contradictory quantitative measurements.

Roy Lewallen, W7EL

963. Re: Traitor Bush closed 911 investigations immediately according to the FBI and Senator Daschle - Man, Mr. Bush Jr.'s WHORES sure are wicked evil letting the demon enemy of Life escape eh? - Bushite War LIFE Itself - 'Alpha company patrols the poppy fields

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 13:08:58 UTC
From: mopeyzakween@yahoo.com
Message-ID: <f0e5fb60-7223-458b-81d1-661e7f2a8142@w39g2000prb.googlegroups.com>
Source record: 17587
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Feb 9, 1:17 pm, "Dave" <D...@mediacom.net> wrote:
> WHY DON'T YOU ALL GET A LIFE AND USE THIS NEWSGROUP FOR WHAT IT'S INTENDED
> FOR!!!!!! HAM RADIO I THOUGHT!

Because we like seeing clowns like you type in caps and use
exclamation points.

964. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 13:32:33 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <2LadnRjKfbllHAzUnZ2dnUVZ8qydnZ2d@bt.com>
Source record: 17588

"Jerry" <jerrymartes@verizon.net> wrote in message
news:Irakl.2355$eK2.206@nwrddc01.gnilink.net...
>
> "Harry H" <harryharms@hotmail.com> wrote in message
> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>> >
>>> The Lindenblad has an overhead null that you might find anoying for
>>> some high elevation passes of LEOs.
>>> Are you open to trying to build a DCA (which is an antenna that I
>>> developed)? I make the claim that there is no other hemispheric
>>> coverage antenna design that performs better than a DCA. But, I sure
>>> am open to being corrected.
>>> The Feb 2008 QST contains an article on the DCA antenna design concept.
>>> It is my claim that a DCA is extreemely forgiving of construction
>>> errors and uses 4 wire dipoles and 50 ohm coax with 5 RFI type ferrites
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>> have a copy of the article?
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>> HH
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> Hi HH
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> relating to the DCA antenna design concept. It is simple. It is two
> pairs of crossed dipoles. Each pair is spaced 1/4 wave apart and fed in
> phase. One pair is physically mounted 90 degrees from the other pair.
> All four dipoles are tilted 30 degtrees from vertical. One pair is fed
> 90 degrees later than the other pair.
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> he found it to be exactly what he needed for reception of NOAA weather
> satellite signals. Patrik publishes alot of what I send him related to
> the antenna. Patrik shows a section of his web page to describe the DCA
> to anyone interested. You can find the QST article in the section Patrik
> identifies as ANTENNAS on the first page of his site
> http://www.poes-weather.com/index.php.
>

> If you have any questions about the DCA concept you are free to E-mail
> me, anytime. Or, if you have any facts or data to show where I am wrong
> about how well this antenna performs, or know of something that performs
> better, please set me straight.
>
> Jerry KD6JDJ

... but surely this is the same as a Lindenblad array? The tilt of the dipoles was always a parameter in the Lindenblad, so I wonder how your DCA differs from what N. E. Lindenblad described in the April 1941 edition of 'Communications'.

Chris

965. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 15:14:10 UTC
From: Ron <apositiveplace@netscape.net>
Message-ID: <4Rgkl.6008$5B.4382@newsfe20.iad>
Source record: 17589
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

dloydlavies@gmail.com wrote:
> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
> <assemblywizard@gmail.com> wrote:
>
>> K4YZ wrote:
>>> Nope.
>>>
>>> The IP Address and servers are complete proof that I do NOT share
>>> any annonymous character's "address".
>>>
>>> Sounds like Lennie, to me....
>>>
>>> Steve, K4YZ
>>>
>> To anyone with even an elementary understanding of anonymous proxies,
>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>> IP address and header details is simplistic, indeed, with little time
>> spent anyone can appear to be "coming" from anywhere in the world.
>>
>> You waste my time. Worse, you think us all idiots here. You remind me
>> of the "street smart" prosecutors and defense attorneys who stack jurys
>> with members of little or no technical knowledge and then call in
>> "expert witnesses" and propose arguments of technical details to boggle
>> their minds.
>>
>> You have only proven that you, yourself are either ignorant to such
>> technical details, or else you are indeed street smart, I favor the
>> latter in this case (however, if you in the dark about such things, 15
>> minutes on google will enlighten you.)
>>
>> JS

Are you about done spamming this stuff? Can we please get back to the
discussions that these news groups were designed for? Please?

Ron

966. Re: Modify old cell-phones for LOS TxRx ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 15:32:50 UTC
From: ltdoc@yahoo.com
Message-ID: <0fd0fb45-0dc2-431d-8cd7-029e0511058e@y38g2000prg.googlegroups.com>
Source record: 17590
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

Chris,
I would think that the primary reason is the complexity of the thing
and the small size. I can't even see some of the parts, how could I
possibly modify them?
- 'Doc

967. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 15:51:16 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <Unhkl.6$2N2.2@nwrddc02.gnilink.net>
Source record: 17591

"christofire" <christofire@btinternet.com> wrote in message
news:2LadnRjKfbllHAzUnZ2dnUVZ8qydnZ2d@bt.com...
> "Jerry" <jerrymartes@verizon.net> wrote in message
> news:Irakl.2355$eK2.206@nwrddc01.gnilink.net...
>>
>> "Harry H" <harryharms@hotmail.com> wrote in message
>> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>>> >
>>>> The Lindenblad has an overhead null that you might find anoying for
>>>> some high elevation passes of LEOs.
>>>> Are you open to trying to build a DCA (which is an antenna that I
>>>> developed)? I make the claim that there is no other hemispheric
>>>> coverage antenna design that performs better than a DCA. But, I sure
>>>> am open to being corrected.
>>>> The Feb 2008 QST contains an article on the DCA antenna design
>>>> concept.
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>> relating to the DCA antenna design concept. It is simple. It is two
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>> better, please set me straight.
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>> Jerry KD6JDJ
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>
> ... but surely this is the same as a Lindenblad array? The tilt of the
> dipoles was always a parameter in the Lindenblad, so I wonder how your DCA
> differs from what N. E. Lindenblad described in the April 1941 edition of
> 'Communications'.
>
> Chris

Hi Chris

Several, well educated, antenna experts insist that the DCA is actually a Lindenblad. If you thought the DCA is a Lindenblad, you are not alone. The DCA is not a Lindenblad. The array of four dipoles in a Lindenblad are fed to produce an overhead null. The four dipoles in a DCA are fed to produce no overhead null. The DCA is a hemispheric coverage CP antenna. The Lindenblad is not.
Let me know if you have reason to consider the DCA to be the same as a Lindenblad. I knew nothing about Lindenblad until after recognizing the DCA concept.

Jerry m KD6JDJ

Jerry

968. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 16:04:16 UTC
From: JB <nospam@goofball.net>
Message-ID: <4Ahkl.10$2N2.4@nwrddc02.gnilink.net>
Source record: 17592

> You might want to consider using RG-6/u instead of RG-59. These daze,
> the quality of RG-59 coax is rather marginal. I've seen 80% coverage

Beware of the Aluminum foil and shields though. Once it gets wet there is no stopping the internal corrosion and will generate broadband noise under power. This includes both RG6 and 9913 and LMR types. They have been banned from all commercial sites around here.

Bring a knife with you and inspect before you buy. Tinned Copper braid is better, Silver clad rigid is best.

969. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 16:36:47 UTC
From: JB <nospam@goofball.net>
Message-ID: <z2ikl.8$7o5.0@nwrddc01.gnilink.net>
Source record: 17593

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:QMydnby0CPygwQzUnZ2dnUVZ_h2WnZ2d@posted.easystreetonline...
> Dr. Barry L. Ornitz wrote:
> > . . .
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> original posting follows. I didn't do any other experiments as I said I
> would, and I've gotten very little confirming or contradictory feedback.
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> about RTV, the general thrust of which was that there's a very wide
> range of formulations, so results might vary a lot from what I measured.
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> Spurred by recent comments and questions on this newsgroup, I made
> some inductors last weekend and measured them. Results follow.
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> Roy Lewallen, W7EL
> December, 1998
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> Test Equipment
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> Inductance: GR 1606-A impedance meter. Stray series impedance was
> removed by initial calibration. Stray shunt capacitance was separately
> measured and removed mathematically. Repeatability is within about +/-
> 2%. No attempt was made to establish accuracy.
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> Q: A home-made fixture was used. This is simply an air-variable
> capacitor which the inductor is connected across. Coupling into and
> out of the fixture with signal generator and oscilloscope is done with
> very small capacitors. The Q is calculated from the center frequency
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> between inductors. All the cores used in the test were ordered at the
> same time, so they may have come from the same batch and have
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>
> Experiment 2: Turn Spacing
>
> I believe it's well established that even a partial second layer can
> greatly reduce the Q of a toroidal inductor. But I had recently heard
> that optimum Q is achieved when the first layer isn't quite full, but
> rather has about a 30 degree gap in the winding, to reduce the
> capacitance between winding ends. To test this, I wound 23 turns of
> #22 wire on a T-50-6 core, and measured the Q with the turns pushed
> close together to make a gap (of about 30 degrees), and then spread to
> evenly distribute the turns completely around the core. Measured 10
> MHz Q's were 272 and 284, respectively. (Inductances were 2.21 and
> 2.11 uH.) This one test doesn't by any means exhaust all the
> possibilities of core geometries, permeabilities, number of turns, and
> wire size, all of which may play a role. But if there's any advantage
> to leaving a gap, I believe it would be a small one. And in at least
> one case, it's slightly better not to.
>
> Another test was run using 10 turns of the same size wire on the same
> core. With the turns pushed together (the winding covering less than
> half the core), Q was 213, L was 841 nH. With the turns spread evenly
> around the core, Q was 209 but the L had dropped to 505 nH. I reasoned
> that a more fair comparison would be with a winding of about the same
> inductance as the original close-spaced one. This required 15 turns
> when distributed around the core, and resulted in a Q of 257 and L of
> 924 uH. Here again, the Q is best when the turns are evenly
> distributed. Note that type 6 powdered iron has a very low relative
> permeability (8.5), so results might be different with
> higher-permeability materials. However, this is the material I usually
> use for high-Q inductors at HF, so I'm most interested in how it's
> affected.
>
> Experiment 3: "Regressive" Winding
>
> In the past, I've found what I thought was a moderate improvement in Q
> by "regressively" winding an inductor. To do this, you wind half the
> turns in the normal manner. Then you pass the wire through the hole,
> but to the opposite side of the inductor (with it ending up beside the
> first turn), then completing the winding from the vicinity of the
> first turn back toward the origination of the crossover. The result is
> an inductor with the two leads coming from points directly opposite
> each other. Stray capacitance is allegedly reduced by keeping the ends
> of the winding apart. An inductor wound in this manner with 25 turns
> of #22 wire measured Q = 285, L = 2.48 uH. This Q is on the high side,
> and the L on the low side, of the uncoated inductors measured in
> Experiment 1. I didn't try comparing with a standard winding on the
> same core, since the same number of turns wound on the same core at
> different times (e.g., inductors 6 and 11 in Experiment 1) were shown

> to come out differently from each other. My conclusion is that any Q
> improvement due to "regressive" winding is slight. Another claim for
> "regressive" winding is that it eliminates the "single turn" effect of
> toroidal inductors. A normal toroid will couple into its surroundings
> as though it consists of a single turn the size of the core. In the
> "regressively" wound inductor, there are two half-turns in opposite
> directions, so coupling should be reduced. I haven't tested this in
> any way, but it may be an argument in favor of the method. The
> relatively long wire of the crossover turn would contribute to
> coupling, however.
>
> I'll undertake more experiments and measurements as time permits. I'd
> love to hear from anyone who has made either supporting or
> contradictory quantitative measurements.
>
> Roy Lewallen, W7EL

I seem to recall reading that Styrene had the best dielectric properties of the plastics.

I did some similar experiments building 1/4 wave spikes in a BNC connector for 2m HTs and found that glues would heat up from the RF. Clear epoxy worked best and JB weld, Pipe dope, Silicone sealers and Hot glue were poor performers. I still have some fiberglass tape that I use for torroids.

970. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 16:47:36 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2732c7d2-ea47-4933-8d5d-7a154c814ccb@s9g2000prg.googlegroups.com>
Source record: 17594

On Feb 10, 1:57 am, "Jerry" <jerrymar...@verizon.net> wrote:
> "Harry H" <harryha...@hotmail.com> wrote in message
>
> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>
>
>
>
>
> >> The Lindenblad has an overhead null that you might find anoying for some
> >> high elevation passes of LEOs.
> >> Are you open to trying to build a DCA (which is an antenna that I
> >> developed)? I make the claim that there is no other hemispheric
> >> coverage antenna design that performs better than a DCA. But, I sure am
> >> open to being corrected.
> >> The Feb 2008 QST contains an article on the DCA antenna design concept.
> >> It is my claim that a DCA is extreemely forgiving of construction errors
> >> and uses 4 wire dipoles and 50 ohm coax with 5 RFI type ferrites as
> >> "baluns'.
>
> >>   Jerry KD6JDJ
> > Given the fact I don't subscribe to QST, domicile Australia, would you
> > have a copy of the article?
>
> > HH
>
> Hi HH
>
> It would be my pleasure to disclose any/all the information I have
> relating to the DCA antenna design concept. It is simple. It is two pairs
> of crossed dipoles. Each pair is spaced 1/4 wave apart and fed in phase.
> One pair is physically mounted 90 degrees from the other pair. All four
> dipoles are tilted 30 degtrees from vertical. One pair is fed 90 degrees
> later than the other pair.
> The concept is so simple and straightfoeward that it is probable that the
> concept has been developed before I thought of it. But, I have been unable
> to find anything published related to this simple "Double Cross Antenna"
> I told my *Internet buddy*, Patrik Tast, in Finland about the concept and
> he found it to be exactly what he needed for reception of NOAA weather
> satellite signals. Patrik publishes alot of what I send him related to the
> antenna. Patrik shows a section of his web page to describe the DCA to
> anyone interested. You can find the QST article in the section Patrik
> identifies as ANTENNAS on the first page of his
sitehttp://www.poes-weather.com/index.php.

>
> If you have any questions about the DCA concept you are free to E-mail me,
> anytime. Or, if you have any facts or data to show where I am wrong about
> how well this antenna performs, or know of something that performs better,
> please set me straight.
>
>   Jerry   KD6JDJ

Looked at the URL
What this antenna is doing is to aproach equilibrium by taking into
account the "weak force" which demands a tilting away from parallelism
or the verticle position away from the surface of the earth, without
which the radiation pattern will not be balanced.
When a U.S.naval base tipped all its verticle antennas at an angle
referenced to earth this prior null must have been of great
inconvenience with respect to defense alertness.

971. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 18:06:31 UTC
From: k3vr@hotmail.com
Message-ID: <cgg3p4t1d9hkc53fm6b3paavu24he0m3b7@4ax.com>
Source record: 17595
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
wrote:

>dloydlavies@gmail.com wrote:
>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>> <assemblywizard@gmail.com> wrote:
>>
>>> K4YZ wrote:
>>>> Nope.
>>>>
>>>> The IP Address and servers are complete proof that I do NOT share
>>>> any annonymous character's "address".
>>>>
>>>> Sounds like Lennie, to me....
>>>>
>>>> Steve, K4YZ
>>>>
>>> To anyone with even an elementary understanding of anonymous proxies,
>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>> IP address and header details is simplistic, indeed, with little time
>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>
>>> You waste my time. Worse, you think us all idiots here. You remind me
>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>> with members of little or no technical knowledge and then call in
>>> "expert witnesses" and propose arguments of technical details to boggle
>>> their minds.
>>>
>>> You have only proven that you, yourself are either ignorant to such
>>> technical details, or else you are indeed street smart, I favor the
>>> latter in this case (however, if you in the dark about such things, 15
>>> minutes on google will enlighten you.)
>>>
>>> JS
>
>Are you about done spamming this stuff? Can we please get back to the
>discussions that these news groups were designed for? Please?
>
>Ron
id love to but sme folks just will not alow not my fault and thye need
tohe reminder

972. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 18:12:26 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <S62dnb0KVZgMXgzUnZ2dnUVZ8vidnZ2d@bt.com>
Source record: 17596

```
"Jerry" <jerrymartes@verizon.net> wrote in message
news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>
> "christofire" <christofire@btinternet.com> wrote in message
> news:2LadnRjKfbllHAzUnZ2dnUVZ8qydnZ2d@bt.com...
>> "Jerry" <jerrymartes@verizon.net> wrote in message
>> news:Irakl.2355$eK2.206@nwrddc01.gnilink.net...
>>>
>>> "Harry H" <harryharms@hotmail.com> wrote in message
>>> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>>>> >
>>>>> The Lindenblad has an overhead null that you might find anoying for
>>>>> some high elevation passes of LEOs.
>>>>> Are you open to trying to build a DCA (which is an antenna that I
>>>>> developed)? I make the claim that there is no other hemispheric
>>>>> coverage antenna design that performs better than a DCA. But, I sure
>>>>> am open to being corrected.
>>>>> The Feb 2008 QST contains an article on the DCA antenna design
>>>>> concept.
>>>>> It is my claim that a DCA is extreemely forgiving of construction
>>>>> errors and uses 4 wire dipoles and 50 ohm coax with 5 RFI type
>>>>> ferrites as "baluns'.
>>>>>
>>>>> Jerry KD6JDJ
>>>> Given the fact I don't subscribe to QST, domicile Australia, would you
>>>> have a copy of the article?
>>>>
>>>> HH
>>>
>>>
>>> Hi HH
>>>
>>> It would be my pleasure to disclose any/all the information I have
>>> relating to the DCA antenna design concept. It is simple. It is two
>>> pairs of crossed dipoles. Each pair is spaced 1/4 wave apart and fed
>>> in phase. One pair is physically mounted 90 degrees from the other pair.
>>> All four dipoles are tilted 30 degtrees from vertical. One pair is fed
>>> 90 degrees later than the other pair.
>>> The concept is so simple and straightfoeward that it is probable that
>>> the concept has been developed before I thought of it. But, I have
>>> been unable to find anything published related to this simple "Double
>>> Cross Antenna"
>>> I told my *Internet buddy*, Patrik Tast, in Finland about the concept
>>> and he found it to be exactly what he needed for reception of NOAA
```

>>> weather satellite signals. Patrik publishes alot of what I send him
>>> related to the antenna. Patrik shows a section of his web page to
>>> describe the DCA to anyone interested. You can find the QST article in
>>> the section Patrik identifies as ANTENNAS on the first page of his site
>>> http://www.poes-weather.com/index.php.
>>>
>>> If you have any questions about the DCA concept you are free to E-mail
>>> me, anytime. Or, if you have any facts or data to show where I am
>>> wrong about how well this antenna performs, or know of something that
>>> performs better, please set me straight.
>>>
>>> Jerry KD6JDJ
>>
>>
>> ... but surely this is the same as a Lindenblad array? The tilt of the
>> dipoles was always a parameter in the Lindenblad, so I wonder how your
>> DCA differs from what N. E. Lindenblad described in the April 1941
>> edition of 'Communications'.
>>
>> Chris
>
>
> Hi Chris
>
> Several, well educated, antenna experts insist that the DCA is actually a
> Lindenblad. If you thought the DCA is a Lindenblad, you are not alone.
> The DCA is not a Lindenblad. The array of four dipoles in a Lindenblad
> are fed to produce an overhead null. The four dipoles in a DCA are fed
> to produce no overhead null. The DCA is a hemispheric coverage CP
> antenna. The Lindenblad is not.
> Let me know if you have reason to consider the DCA to be the same as a
> Lindenblad. I knew nothing about Lindenblad until after recognizing the
> DCA concept.
>
> Jerry m KD6JDJ
>
> Jerry

Perhaps it's a rather fine distinction to say an antenna that has the same physical form as the Lindenblad array is something different because the elements are driven differently. The original version that he patented didn't have rod elements at all (see, for example, www.coe.montana.edu/ee/rwolff/EE548/EE548-S06/UWB/History_UWB_antennas.pdf) but it was the configuration of four slanted dipoles around a central pole that appears to have borne his name since 1941. Henry Jasik's 'Antenna Engineering Handbook' (now by John L. Volakis, Richard C. Johnson and Henry Jasik, Chapter 29, Page 34) refers to the configuration as a Lindenblad array, without being specific about the way the dipoles are driven. However, applying new names to antennas that exploit well known configurations seems fairly commonplace in the professional field,

particularly in broadcasting.

Of course you can name your antenna as you please, but there might be some value in mentioning that it is a development of the Lindenblad array - you'd certainly need to demonstrate awareness of, and distinction from, the prior art if you were to seek a patent.

Chris

973. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 18:19:57 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <s8qdncdGDdDJWAzUnZ2dnUVZ8oKdnZ2d@bt.com>
Source record: 17597

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:2732c7d2-ea47-4933-8d5d-7a154c814ccb@s9g2000prg.googlegroups.com...
On Feb 10, 1:57 am, "Jerry" <jerrymar...@verizon.net> wrote:
> "Harry H" <harryha...@hotmail.com> wrote in message
>
> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>
>
>
>
>
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> >> "baluns'.
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> >> Jerry KD6JDJ
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> > HH
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> Hi HH
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> relating to the DCA antenna design concept. It is simple. It is two pairs
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> how well this antenna performs, or know of something that performs better,
> please set me straight.
>
> Jerry KD6JDJ

Looked at the URL
What this antenna is doing is to aproach equilibrium by taking into
account the "weak force" which demands a tilting away from parallelism
or the verticle position away from the surface of the earth, without
which the radiation pattern will not be balanced.
When a U.S.naval base tipped all its verticle antennas at an angle
referenced to earth this prior null must have been of great
inconvenience with respect to defense alertness.

- - - -

A simpler explanation is that the tilt is there to provide a
horizontally-polarised component in the radiated field around the antenna,
as well as a vertically-polarised component, in order to achieve circular
polarisation. The angle of tilt is a design parameter which, along with the
radius of the centres of the dipoles and, in this case, the choice of how
they are phased, collectively determine the axial ratio. The radiation
patterns and match of such an antenna are not affected by its orientation
with respect to the surface of the earth!

Chris

974. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 18:52:18 UTC
From: Ron <apositiveplace@netscape.net>
Message-ID: <A1kkl.25252$Dx3.10084@newsfe21.iad>
Source record: 17598
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

k3vr@hotmail.com wrote:
> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
> wrote:
>
>> dloydlavies@gmail.com wrote:
>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>> <assemblywizard@gmail.com> wrote:
>>>
>>>> K4YZ wrote:
>>>>> Nope.
>>>>>
>>>>> The IP Address and servers are complete proof that I do NOT share
>>>>> any annonymous character's "address".
>>>>>
>>>>> Sounds like Lennie, to me....
>>>>>
>>>>> Steve, K4YZ
>>>>>
>>>> To anyone with even an elementary understanding of anonymous proxies,
>>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>>> IP address and header details is simplistic, indeed, with little time
>>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>>
>>>> You waste my time. Worse, you think us all idiots here. You remind me
>>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>>> with members of little or no technical knowledge and then call in
>>>> "expert witnesses" and propose arguments of technical details to boggle
>>>> their minds.
>>>>
>>>> You have only proven that you, yourself are either ignorant to such
>>>> technical details, or else you are indeed street smart, I favor the
>>>> latter in this case (however, if you in the dark about such things, 15
>>>> minutes on google will enlighten you.)
>>>>
>>>> JS
>> Are you about done spamming this stuff? Can we please get back to the
>> discussions that these news groups were designed for? Please?
>>
>> Ron
> id love to but sme folks just will not alow not my fault and thye need
> tohe reminder

I suppose in English that means "No".

Most of have no need of a reminder, thanks. Maybe you feel the need to remind others, and now that you have done so please refrain from further spam.

Ron

975. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 19:41:26 UTC
From: k3vr@hotmail.com
Message-ID: <sul3p4tsetgkrn2da78e4slh1vf3ibs6md@4ax.com>
Source record: 17599
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
wrote:

>k3vr@hotmail.com wrote:
>> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
>> wrote:
>>
>>> dloydlavies@gmail.com wrote:
>>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>>> <assemblywizard@gmail.com> wrote:
>>>>
>>>>> K4YZ wrote:
>>>>>> Nope.
>>>>>>
>>>>>> The IP Address and servers are complete proof that I do NOT share
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>>>>>>
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>>>>>> Steve, K4YZ
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>>>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
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>>>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>>>> with members of little or no technical knowledge and then call in
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>>>>> You have only proven that you, yourself are either ignorant to such
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>>>>> latter in this case (however, if you in the dark about such things, 15
>>>>> minutes on google will enlighten you.)
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>>> Are you about done spamming this stuff? Can we please get back to the
>>> discussions that these news groups were designed for? Please?
>>>
>>> Ron
>> id love to but sme folks just will not alow not my fault and thye need

>> tohe reminder
>
>I suppose in English that means "No".

it means ask someone else

>
>Most of have no need of a reminder, thanks. Maybe you feel the need to
>remind others, and now that you have done so please refrain from further
>spam.

well again that depend on other when they make it clear they don't get
then they will reminded yes along with yourself and other sadly that
is the way the usenet works

indeed as certain of those that seem to need reminders are the
subjects of FCC enforcement actions I help to generate I sadly expect
that they will ned more remidners in the near future but that is up to
them
>
>Ron

976. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 20:15:57 UTC
From: k3vr@hotmail.com
Message-ID: <l3o3p41enmg6t588jmsdsqhi7inlrtibpn@4ax.com>
Source record: 17600
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy
Body handling: HTML body converted to readable text

On Sat, 7 Feb 2009 21:57:29 -0800 (PST), "w4nti@live.com"
wrote:

>On Feb 7, 2:02ï¿½pm, Pink Pimpernel wrote:
>> The substitute U.P. hot spot, Applebee's Grill and Bar, is tonite's "in"
>> place and all kewl pple know it. ï¿½For a good time watching local
>> thespians and magickal pple, come to
>>
>> Applebee's Grill & Bar
>> 980 Razorback Dr
>> Houghton, MI 49931
>> (906) 482-2800
>>
>> Be sure to bring yer cents of humor with you.
>>
>> Instead of karaoke, Applebee's has a "shoot your own video" contest that
>> will be an exciting substitute. ï¿½Come to Applebee's, get drunk, disrobe,
>> and make a sex video of yourself suitable for the internet.
>>
>> http://www.applebees.com/realvideos/default.aspx
>>
>> It's what all kewl Houghton pple do.
>>
>> Besides that, Applebee's has set up a temporary enema room with its own
>> beer keg and floor drain so that you can enjoy beer yer own way. ï¿½This
>> is a feature which normally can be found only in the Greenlight Lounge,
>> but this weekend Applebee's is making an exception.
>>
>> We have fun, fun, fun, fun, fun ever Saturday night, so put on yer
>> leotards or yer spandex and get to stepping. ï¿½Be thier or be square.
>
>get a life

977. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 21:01:25 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <4991ebd8$0$19982$afc38c87@news.optusnet.com.au>
Source record: 17601

Jim Higgins wrote:
> On Tue, 10 Feb 2009 10:09:17 +1100, Clifford Heath
>> Beware; this produces significant quantities of styrene monomer,
>> a known carcinogen.
> No it doesn't. It's purely a dissolution process with no chemical
> reaction.

Glad to hear it - I forget who scared me off using a batch I made
and held on to, unable to decide how to even dispose of it.

978. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 21:34:11 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <kNCdneUr8OLLbwzUnZ2dnUVZ_qadnZ2d@posted.easystreetonline>
Source record: 17602

JB wrote:
>
> I seem to recall reading that Styrene had the best dielectric properties of
> the plastics.
>
> I did some similar experiments building 1/4 wave spikes in a BNC connector
> for 2m HTs and found that glues would heat up from the RF. Clear epoxy
> worked best and JB weld, Pipe dope, Silicone sealers and Hot glue were poor
> performers. I still have some fiberglass tape that I use for torroids.

Of common plastics, Teflon, polyethylene, styrene, and polypropylene
have the lowest RF loss. However, others can be perfectly adequate for
some applications.

Roy Lewallen, W7EL

979. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 22:10:11 UTC
From: JB <nospam@goofball.net>
Message-ID: <7Xmkl.39$g31.33@nwrddc01.gnilink.net>
Source record: 17603

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:kNCdneUr8OLLbwzUnZ2dnUVZ_qadnZ2d@posted.easystreetonline...
> JB wrote:
> >
> > I seem to recall reading that Styrene had the best dielectric properties
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> > the plastics.
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> > I did some similar experiments building 1/4 wave spikes in a BNC
connector
> > for 2m HTs and found that glues would heat up from the RF. Clear epoxy
> > worked best and JB weld, Pipe dope, Silicone sealers and Hot glue were
poor
> > performers. I still have some fiberglass tape that I use for torroids.
>
> Of common plastics, Teflon, polyethylene, styrene, and polypropylene
> have the lowest RF loss. However, others can be perfectly adequate for
> some applications.
>
> Roy Lewallen, W7EL

Actually made good working ladder line from bell wire from the Science dept.
and plastic spoons from the lunchroom for the school radio club station.
The ugliest, goofiest looking projects always seem to work the best.

980. Coaxial Collinear... To short or not to short

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 23:04:03 UTC
From: xray66@earthlink.net
Message-ID: <2dd1021d-1d9f-4675-9ed8-2b3e9b905ad0@q30g2000prq.googlegroups.com>
Source record: 17604

I've seen plans for coax collinear designs where the top 1/4 wave element is shorted back down onto the below element, and I've also seen plans where the 1/4 wave top element just comes straight up and they didn't put a jumper across to the other element to short it. I'm wondering, has anyone experimented with both methods and noticed any significant difference? Is there a best way? Also, does the shorted method make it DC grounded?

Thanks for any info,

981. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-10 23:30:18 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <e6okl.54$g31.34@nwrddc01.gnilink.net>
Source record: 17605

```
"christofire" <christofire@btinternet.com> wrote in message
news:S62dnb0KVZgMXgzUnZ2dnUVZ8vidnZ2d@bt.com...
>
> "Jerry" <jerrymartes@verizon.net> wrote in message
> news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>>
>> "christofire" <christofire@btinternet.com> wrote in message
>> news:2LadnRjKfbllHAzUnZ2dnUVZ8qydnZ2d@bt.com...
>>> "Jerry" <jerrymartes@verizon.net> wrote in message
>>> news:Irakl.2355$eK2.206@nwrddc01.gnilink.net...
>>>>
>>>> "Harry H" <harryharms@hotmail.com> wrote in message
>>>> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>>>>> >
>>>>>> The Lindenblad has an overhead null that you might find anoying for
>>>>>> some high elevation passes of LEOs.
>>>>>> Are you open to trying to build a DCA (which is an antenna that I
>>>>>> developed)? I make the claim that there is no other hemispheric
>>>>>> coverage antenna design that performs better than a DCA. But, I
>>>>>> sure am open to being corrected.
>>>>>> The Feb 2008 QST contains an article on the DCA antenna design
>>>>>> concept.
>>>>>> It is my claim that a DCA is extreemely forgiving of construction
>>>>>> errors and uses 4 wire dipoles and 50 ohm coax with 5 RFI type
>>>>>> ferrites as "baluns'.
>>>>>>
>>>>>> Jerry KD6JDJ
>>>>> Given the fact I don't subscribe to QST, domicile Australia, would you
>>>>> have a copy of the article?
>>>>>
>>>>> HH
>>>>
>>>>
>>>> Hi HH
>>>>
>>>> It would be my pleasure to disclose any/all the information I have
>>>> relating to the DCA antenna design concept. It is simple. It is two
>>>> pairs of crossed dipoles. Each pair is spaced 1/4 wave apart and fed
>>>> in phase. One pair is physically mounted 90 degrees from the other
>>>> pair. All four dipoles are tilted 30 degtrees from vertical. One pair
>>>> is fed 90 degrees later than the other pair.
>>>> The concept is so simple and straightfoeward that it is probable that
>>>> the concept has been developed before I thought of it. But, I have
>>>> been unable to find anything published related to this simple "Double
```

>>>> Cross Antenna"
>>>> I told my *Internet buddy*, Patrik Tast, in Finland about the concept
>>>> and he found it to be exactly what he needed for reception of NOAA
>>>> weather satellite signals. Patrik publishes alot of what I send him
>>>> related to the antenna. Patrik shows a section of his web page to
>>>> describe the DCA to anyone interested. You can find the QST article
>>>> in the section Patrik identifies as ANTENNAS on the first page of his
>>>> site http://www.poes-weather.com/index.php.
>>>>
>>>> If you have any questions about the DCA concept you are free to E-mail
>>>> me, anytime. Or, if you have any facts or data to show where I am
>>>> wrong about how well this antenna performs, or know of something that
>>>> performs better, please set me straight.
>>>>
>>>> Jerry KD6JDJ
>>>
>>>
>>> ... but surely this is the same as a Lindenblad array? The tilt of the
>>> dipoles was always a parameter in the Lindenblad, so I wonder how your
>>> DCA differs from what N. E. Lindenblad described in the April 1941
>>> edition of 'Communications'.
>>>
>>> Chris
>>
>>
>> Hi Chris
>>
>> Several, well educated, antenna experts insist that the DCA is actually
>> a Lindenblad. If you thought the DCA is a Lindenblad, you are not
>> alone.
>> The DCA is not a Lindenblad. The array of four dipoles in a Lindenblad
>> are fed to produce an overhead null. The four dipoles in a DCA are fed
>> to produce no overhead null. The DCA is a hemispheric coverage CP
>> antenna. The Lindenblad is not.
>> Let me know if you have reason to consider the DCA to be the same as a
>> Lindenblad. I knew nothing about Lindenblad until after recognizing the
>> DCA concept.
>>
>> Jerry m KD6JDJ
>>
>> Jerry
>
>
> Perhaps it's a rather fine distinction to say an antenna that has the same
> physical form as the Lindenblad array is something different because the
> elements are driven differently. The original version that he patented
> didn't have rod elements at all (see, for example,
> www.coe.montana.edu/ee/rwolff/EE548/EE548-S06/UWB/History_UWB_antennas.pdf
>) but it was the configuration of four slanted dipoles around a central
> pole that appears to have borne his name since 1941. Henry Jasik's

> 'Antenna Engineering Handbook' (now by John L. Volakis, Richard C. Johnson
> and Henry Jasik, Chapter 29, Page 34) refers to the configuration as a
> Lindenblad array, without being specific about the way the dipoles are
> driven. However, applying new names to antennas that exploit well known
> configurations seems fairly commonplace in the professional field,
> particularly in broadcasting.
>
> Of course you can name your antenna as you please, but there might be some
> value in mentioning that it is a development of the Lindenblad array -
> you'd certainly need to demonstrate awareness of, and distinction from,
> the prior art if you were to seek a patent.
>
> Chris

Hi Chris

I wonder if you have any pictures of a Lindenblad and any radiation plots.
I also wonder if an end fire antenna is the same as a broadside antenna when
they look the same from a distance.

Jerry KD6JDJ

982. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 01:13:35 UTC
From: Ron <apositiveplace@netscape.net>
Message-ID: <1Dpkl.21038$1Z5.19384@newsfe10.iad>
Source record: 17606
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

k3vr@hotmail.com wrote:
> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
> wrote:
>
>> k3vr@hotmail.com wrote:
>>> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
>>> wrote:
>>>
>>>> dloydlavies@gmail.com wrote:
>>>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>>>> <assemblywizard@gmail.com> wrote:
>>>>>
>>>>>> K4YZ wrote:
>>>>>>> Nope.
>>>>>>>
>>>>>>> The IP Address and servers are complete proof that I do NOT share
>>>>>>> any annonymous character's "address".
>>>>>>>
>>>>>>> Sounds like Lennie, to me....
>>>>>>>
>>>>>>> Steve, K4YZ
>>>>>>>
>>>>>> To anyone with even an elementary understanding of anonymous proxies,
>>>>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>>>>> IP address and header details is simplistic, indeed, with little time
>>>>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>>>>
>>>>>> You waste my time. Worse, you think us all idiots here. You remind me
>>>>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>>>>> with members of little or no technical knowledge and then call in
>>>>>> "expert witnesses" and propose arguments of technical details to boggle
>>>>>> their minds.
>>>>>>
>>>>>> You have only proven that you, yourself are either ignorant to such
>>>>>> technical details, or else you are indeed street smart, I favor the
>>>>>> latter in this case (however, if you in the dark about such things, 15
>>>>>> minutes on google will enlighten you.)
>>>>>>
>>>>>> JS
>>>> Are you about done spamming this stuff? Can we please get back to the
>>>> discussions that these news groups were designed for? Please?
>>>>
>>>> Ron

>>> id love to but sme folks just will not alow not my fault and thye need
>>> tohe reminder
>> I suppose in English that means "No".
>
> it means ask someone else

If the original post of mine was not to you then why did you answer? Do
you know the name you post under?

>
>> Most of have no need of a reminder, thanks. Maybe you feel the need to
>> remind others, and now that you have done so please refrain from further
>> spam.
>
> well again that depend on other when they make it clear they don't get
> then they will reminded yes along with yourself and other sadly that
> is the way the usenet works

Again, your use of the English language is a bit ... vague.

>
> indeed as certain of those that seem to need reminders are the
> subjects of FCC enforcement actions I help to generate I sadly expect
> that they will ned more remidners in the near future but that is up to
> them
>> Ron

You you feel that you are the one, the best qualified, to provide these
"reminders"?

With the sad state of your command of the English language I'd suspect
any claim that you generated an FCC action.

Kindly allow the individual to whom I posted the original "post" to
answer. If he can that is. Somehow I doubt that anything beyond spam
is a reach for him.

Ron

983. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 02:00:32 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <Yiqkl.4801$rt3.428@newsfe15.iad>
Source record: 17607

Roy Lewallen, W7EL, wrote:
> Dr. Barry L. Ornitz wrote:
> . . .
>> Roy Lewallen, W7EL, dipped a number of coils in various materials
>> (RTV silicone, epoxy cement, Q-dope, hot melt adhesive, etc.) a
>> while back and then measured their losses with a Q-meter. If Roy
>> can find his old article, perhaps he can post it again.
>
> Great memory, Barry! It was posted on Dec. 16, 1998. A copy of
> the original posting follows. I didn't do any other experiments as
> I said I would, and I've gotten very little confirming or
> contradictory feedback.

Thanks Roy, but reading your article, I have concluded that my memory is somewhat faulty. I had thought that cellulose nitrate had low dielectric losses, but it turns out that what I was really thinking of was clear fingernail polish which is made from a mixture of cellulose acetate, cellulose acetate propionate, and cellulose acetate butyrate. These cellulose esters are still not excellent radio frequency insulators, but they do a better job than cellulose nitrate.

I have recently been working on an introductory paper for electrical engineers on the mechanical and electrical properties of polymeric plastics. The following paragraph from the paper explains the basis for a polymer's electric properties.

"The electrical properties of a polymer are due to the structure of the polymer both microscopically and macroscopically. Most polymers are dielectrics (insulators) as opposed to metals where electrons can move freely. In polymers, the electrons are tightly bound to the polymer backbone through covalent bonding which resists the movement of electrons. Not all polymers behave the same when an electric potential is applied to them. This difference in behavior allows plastics to be classified as polar or non-polar. Polar plastics do not have fully covalent bonds leading to a slight imbalance in the electrical charge of the molecule. In polar plastics, dipoles are created by an imbalance in the distribution of electrons and in the presence of an electric field these dipoles will attempt to move slightly to align with the field. Because of the temporal element of the movement of the dipoles, the frequency of the applied field strongly affects the motion of the dipoles. In non-polar plastics, the molecules are symmetric and the bonds are fully covalent. No dipoles are present to align with the electrical field. However the electric field does move the electrons slightly in the direction of the applied field; this is known as electron polarization. This movement is effectively instantaneous and the effect of frequency on the dielectric properties of

non-polar plastics is quite small. Non-polar plastics tend to be excellent insulators and have low dielectric constants and low dielectric losses making them useful for the dielectrics in capacitors. Polar plastics, at low frequencies, have enough time for the dipoles to align with the external field. At higher frequencies, the dipoles do not have enough time to fully align. The result is a decrease in the dielectric constant with frequency. The hindrance to the movement to the dipoles, a form of internal friction, causes heat to build up in the polymer. This increased dielectric loss is the operating principle behind radio frequency heating and microwave ovens."

From their atomic structure polyethylene [PE], polytetrafluoroethylene [PTFE, Teflon], and polystyrene [PS] are nonpolar plastics with low dielectric constants of 2.3, 2.1, and 2.6 respectively. Of these, only PS readily dissolve in solvents.

The repeating unit of cellulose, a natural polymer, has three hydroxyl groups which may be substituted with inorganic or organic acids. When nitric acid is used, cellulose nitrate is produced. Cellulose trinitrate, the explosive, has three nitrate groups per repeating unit. The ester used in lacquers and Duco cement is not fully nitrated with a degree of substitution between 2 and 3. Because of the nitro groups, which are quite polar, cellulose nitrate has higher dielectric losses than the esters made with organic acids. These esters are much more lossy than true nonpolar polymers, but less lossy than very polar plastics like polyvinyl chloride [PVC].

So for a coil dope with low dielectric losses, I suggest polystyrene dissolved in acetone or toluene. Clear nail polish will work in a pinch, but it might be better to use hot melt adhesive, or paraffin wax. If you can wait a day or more for it to cure, some of the room temperature vulcanizing silicone products work well too.

--
73, Dr. Barry L. Ornitz WA4VZQ Text in Quotes:
Copyright 2009 B. L Ornitz
BLOrnitz84@charter.net
[transpose digits to reply]

984. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 02:18:54 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <7oGdnb0DSdUAqA_UnZ2dnUVZ8qrinZ2d@bt.com>
Source record: 17608

```
"Jerry" <jerrymartes@verizon.net> wrote in message
news:e6okl.54$g31.34@nwrddc01.gnilink.net...
>
> "christofire" <christofire@btinternet.com> wrote in message
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>>>>> "Harry H" <harryharms@hotmail.com> wrote in message
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>>>>>>> The Lindenblad has an overhead null that you might find anoying for
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>>>>>>> Are you open to trying to build a DCA (which is an antenna that I
>>>>>>> developed)? I make the claim that there is no other hemispheric
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>>>>> Hi HH
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>>>>> related to the antenna. Patrik shows a section of his web page to
>>>>> describe the DCA to anyone interested. You can find the QST article
>>>>> in the section Patrik identifies as ANTENNAS on the first page of his
>>>>> site http://www.poes-weather.com/index.php.
>>>>>
>>>>> If you have any questions about the DCA concept you are free to
>>>>> E-mail me, anytime. Or, if you have any facts or data to show where
>>>>> I am wrong about how well this antenna performs, or know of something
>>>>> that performs better, please set me straight.
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>>>>> Jerry KD6JDJ
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>>>> ... but surely this is the same as a Lindenblad array? The tilt of the
>>>> dipoles was always a parameter in the Lindenblad, so I wonder how your
>>>> DCA differs from what N. E. Lindenblad described in the April 1941
>>>> edition of 'Communications'.
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>>>> Chris
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>>> Lindenblad are fed to produce an overhead null. The four dipoles in a
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>>> the DCA concept.
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>> www.coe.montana.edu/ee/rwolff/EE548/EE548-S06/UWB/History_UWB_antennas.pdf
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>> pole that appears to have borne his name since 1941. Henry Jasik's
>> 'Antenna Engineering Handbook' (now by John L. Volakis, Richard C.
>> Johnson and Henry Jasik, Chapter 29, Page 34) refers to the configuration
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>> known configurations seems fairly commonplace in the professional field,
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>> array - you'd certainly need to demonstrate awareness of, and distinction
>> from, the prior art if you were to seek a patent.
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> Hi Chris
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> I wonder if you have any pictures of a Lindenblad and any radiation
> plots. I also wonder if an end fire antenna is the same as a broadside
> antenna when they look the same from a distance.
>
> Jerry KD6JDJ

You could take a look at www.bbc.co.uk/rd/pubs/reports/1991-15.pdf which on pages 9 and 10 has some details of a Lindenblad for 2.5 GHz, with patterns, that was made from semi-rigid coax and brass tube. The aim in that work was to achieve the best possible axial ratio in order to reject first-order reflections from the ground and nearby objects. If I remember correctly, phase rotation was tried but there really weren't enough variables to get the axial ratio good enough over the whole sphere, so the dipoles were driven in phase and the hole in the vertical radiation pattern at the bottom was 'embraced' as a good thing! In this application, if good axial ratio couldn't be achieved somewhere it was probably better to avoid radiating in that direction.

Another Lindenblad, but also arrayed vertically in four tiers, was used at High Hunsley transmitting station for FM radio. The older photos at http://tx.mb21.co.uk/gallery/high-hunsley.php show it (at the top of the structure) but they are rather distant. The modern replacements are basically crossed dipoles in front of reflectors. A significant challenge in the design of these (big) things is to get the horizontal radiation pattern to hand over cleanly from one element to the next around the structure, without lobes or nulls in either the vertical or horizontal component. In UK Band II broadcasting, the polarisation is usually said to be 'mixed' rather than intentionally circular. The Alan Dick company www.alandick.com/broadcast_antennas_product_004.htm still offers a Lindenblad array for Band II. Their 'FMAC' looks interesting!

As to your question, I'm not certain what you mean so perhaps you could amplify a bit. Certainly if the paths of currents, their relative amplitudes and their relative phases in time, appear the same from different directions then the polarisation should be the same in those directions. A short helix can operate as a broadside and end-fire antenna at the same time and I know the quadrifilar helix is a popular option for small L-Band satellite terminals. However, that radio-camera application imposed stringent demands for axial ratio and, obviously, the requirements for satisfactory reception of CP signals from satellites can be less demanding when CP is used simply to avoid loss on account of mismatched linear polarisations - when the other sense of CP isn't in use at the same frequency by the same satellite.

Chris

985. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 02:44:24 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <aecb6733-9c45-482d-89aa-892c867905a1@b16g2000yqb.googlegroups.com>
Source record: 17609

On Feb 10, 9:00 pm, "Dr. Barry L. Ornitz" <BLOrnit...@charter.net>
wrote:
> Roy Lewallen, W7EL, wrote:
> > Dr. Barry L. Ornitz wrote:
> > . . .
> >> Roy Lewallen, W7EL, dipped a number of coils in various materials
> >> (RTV silicone, epoxy cement, Q-dope, hot melt adhesive, etc.) a
> >> while back and then measured their losses with a Q-meter. If Roy
> >> can find his old article, perhaps he can post it again.
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> > Great memory, Barry! It was posted on Dec. 16, 1998. A copy of
> > the original posting follows. I didn't do any other experiments as
> > I said I would, and I've gotten very little confirming or
> > contradictory feedback.
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> Thanks Roy, but reading your article, I have concluded that my memory is
> somewhat faulty. I had thought that cellulose nitrate had low dielectric
> losses, but it turns out that what I was really thinking of was clear
> fingernail polish which is made from a mixture of cellulose acetate,
> cellulose acetate propionate, and cellulose acetate butyrate. These
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> they do a better job than cellulose nitrate.
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> I have recently been working on an introductory paper for electrical
> engineers on the mechanical and electrical properties of polymeric
> plastics. The following paragraph from the paper explains the basis for a
> polymer's electric properties.
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> "The electrical properties of a polymer are due to the structure of the
> polymer both microscopically and macroscopically. Most polymers are
> dielectrics (insulators) as opposed to metals where electrons can move
> freely. In polymers, the electrons are tightly bound to the polymer
> backbone through covalent bonding which resists the movement of electrons.
> Not all polymers behave the same when an electric potential is applied to
> them. This difference in behavior allows plastics to be classified as
> polar or non-polar. Polar plastics do not have fully covalent bonds
> leading to a slight imbalance in the electrical charge of the molecule. In
> polar plastics, dipoles are created by an imbalance in the distribution of
> electrons and in the presence of an electric field these dipoles will
> attempt to move slightly to align with the field. Because of the temporal
> element of the movement of the dipoles, the frequency of the applied field
> strongly affects the motion of the dipoles. In non-polar plastics, the
> molecules are symmetric and the bonds are fully covalent. No dipoles are
> present to align with the electrical field. However the electric field

> does move the electrons slightly in the direction of the applied field;
> this is known as electron polarization. This movement is effectively
> instantaneous and the effect of frequency on the dielectric properties of
> non-polar plastics is quite small. Non-polar plastics tend to be excellent
> insulators and have low dielectric constants and low dielectric losses
> making them useful for the dielectrics in capacitors. Polar plastics, at
> low frequencies, have enough time for the dipoles to align with the
> external field. At higher frequencies, the dipoles do not have enough time
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>
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>
> The repeating unit of cellulose, a natural polymer, has three hydroxyl
> groups which may be substituted with inorganic or organic acids. When
> nitric acid is used, cellulose nitrate is produced. Cellulose trinitrate,
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> with organic acids. These esters are much more lossy than true nonpolar
> polymers, but less lossy than very polar plastics like polyvinyl chloride
> [PVC].
>
> So for a coil dope with low dielectric losses, I suggest polystyrene
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> but it might be better to use hot melt adhesive, or paraffin wax. If you
> can wait a day or more for it to cure, some of the room temperature
> vulcanizing silicone products work well too.
>
> --
> 73, Dr. Barry L. Ornitz WA4VZQ   Text in Quotes:
> Copyright 2009 B. L Ornitz
> BLOrnit...@charter.net
> [transpose digits to reply]

I believe what you are describing is Duco cement the kind that I used
to use to build model cars.
Is that stuff still around? I think they took it off the market
because of the glue huffers. If it is still around it should make
excellent coil dope.

Jimmie.

986. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 02:58:12 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <89rkl.105$g31.101@nwrddc01.gnilink.net>
Source record: 17610

```
"christofire" <christofire@btinternet.com> wrote in message
news:7oGdnb0DSdUAqA_UnZ2dnUVZ8qrinZ2d@bt.com...
>
> "Jerry" <jerrymartes@verizon.net> wrote in message
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>>>>>>
>>>>>> "Harry H" <harryharms@hotmail.com> wrote in message
>>>>>> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>>>>>>> >
>>>>>>>> The Lindenblad has an overhead null that you might find anoying
>>>>>>>> for some high elevation passes of LEOs.
>>>>>>>> Are you open to trying to build a DCA (which is an antenna that I
>>>>>>>> developed)? I make the claim that there is no other hemispheric
>>>>>>>> coverage antenna design that performs better than a DCA. But, I
>>>>>>>> sure am open to being corrected.
>>>>>>>> The Feb 2008 QST contains an article on the DCA antenna design
>>>>>>>> concept.
>>>>>>>> It is my claim that a DCA is extreemely forgiving of construction
>>>>>>>> errors and uses 4 wire dipoles and 50 ohm coax with 5 RFI type
>>>>>>>> ferrites as "baluns'.
>>>>>>>>
>>>>>>>> Jerry KD6JDJ
>>>>>>> Given the fact I don't subscribe to QST, domicile Australia, would
>>>>>>> you have a copy of the article?
>>>>>>>
>>>>>>> HH
>>>>>>
>>>>>>
>>>>>> Hi HH
>>>>>>
>>>>>> It would be my pleasure to disclose any/all the information I have
>>>>>> relating to the DCA antenna design concept. It is simple. It is
>>>>>> two pairs of crossed dipoles. Each pair is spaced 1/4 wave apart
```

>>>>>> and fed in phase. One pair is physically mounted 90 degrees from the
>>>>>> other pair. All four dipoles are tilted 30 degtrees from vertical.
>>>>>> One pair is fed 90 degrees later than the other pair.
>>>>>> The concept is so simple and straightfoeward that it is probable
>>>>>> that the concept has been developed before I thought of it. But, I
>>>>>> have been unable to find anything published related to this simple
>>>>>> "Double Cross Antenna"
>>>>>> I told my *Internet buddy*, Patrik Tast, in Finland about the
>>>>>> concept and he found it to be exactly what he needed for reception of
>>>>>> NOAA weather satellite signals. Patrik publishes alot of what I
>>>>>> send him related to the antenna. Patrik shows a section of his web
>>>>>> page to describe the DCA to anyone interested. You can find the QST
>>>>>> article in the section Patrik identifies as ANTENNAS on the first
>>>>>> page of his site http://www.poes-weather.com/index.php.
>>>>>>
>>>>>> If you have any questions about the DCA concept you are free to
>>>>>> E-mail me, anytime. Or, if you have any facts or data to show where
>>>>>> I am wrong about how well this antenna performs, or know of
>>>>>> something that performs better, please set me straight.
>>>>>>
>>>>>> Jerry KD6JDJ
>>>>>
>>>>>
>>>>> ... but surely this is the same as a Lindenblad array? The tilt of
>>>>> the dipoles was always a parameter in the Lindenblad, so I wonder how
>>>>> your DCA differs from what N. E. Lindenblad described in the April
>>>>> 1941 edition of 'Communications'.
>>>>>
>>>>> Chris
>>>>
>>>>
>>>> Hi Chris
>>>>
>>>> Several, well educated, antenna experts insist that the DCA is
>>>> actually a Lindenblad. If you thought the DCA is a Lindenblad, you
>>>> are not alone.
>>>> The DCA is not a Lindenblad. The array of four dipoles in a
>>>> Lindenblad are fed to produce an overhead null. The four dipoles in a
>>>> DCA are fed to produce no overhead null. The DCA is a hemispheric
>>>> coverage CP antenna. The Lindenblad is not.
>>>> Let me know if you have reason to consider the DCA to be the same as a
>>>> Lindenblad. I knew nothing about Lindenblad until after recognizing
>>>> the DCA concept.
>>>>
>>>> Jerry m KD6JDJ
>>>>
>>>> Jerry
>>>
>>>
>>> Perhaps it's a rather fine distinction to say an antenna that has the

>>> same physical form as the Lindenblad array is something different
>>> because the elements are driven differently. The original version that
>>> he patented didn't have rod elements at all (see, for example,
>>> www.coe.montana.edu/ee/rwolff/EE548/EE548-S06/UWB/History_UWB_antennas.pdf
>>>) but it was the configuration of four slanted dipoles around a central
>>> pole that appears to have borne his name since 1941. Henry Jasik's
>>> 'Antenna Engineering Handbook' (now by John L. Volakis, Richard C.
>>> Johnson and Henry Jasik, Chapter 29, Page 34) refers to the
>>> configuration as a Lindenblad array, without being specific about the
>>> way the dipoles are driven. However, applying new names to antennas that
>>> exploit well known configurations seems fairly commonplace in the
>>> professional field, particularly in broadcasting.
>>>
>>> Of course you can name your antenna as you please, but there might be
>>> some value in mentioning that it is a development of the Lindenblad
>>> array - you'd certainly need to demonstrate awareness of, and
>>> distinction from, the prior art if you were to seek a patent.
>>>
>>> Chris
>>
>>
>> Hi Chris
>>
>> I wonder if you have any pictures of a Lindenblad and any radiation
>> plots. I also wonder if an end fire antenna is the same as a broadside
>> antenna when they look the same from a distance.
>>
>> Jerry KD6JDJ
>
>
> You could take a look at www.bbc.co.uk/rd/pubs/reports/1991-15.pdf which
> on pages 9 and 10 has some details of a Lindenblad for 2.5 GHz, with
> patterns, that was made from semi-rigid coax and brass tube. The aim in
> that work was to achieve the best possible axial ratio in order to reject
> first-order reflections from the ground and nearby objects. If I remember
> correctly, phase rotation was tried but there really weren't enough
> variables to get the axial ratio good enough over the whole sphere, so the
> dipoles were driven in phase and the hole in the vertical radiation
> pattern at the bottom was 'embraced' as a good thing! In this
> application, if good axial ratio couldn't be achieved somewhere it was
> probably better to avoid radiating in that direction.
>
> Another Lindenblad, but also arrayed vertically in four tiers, was used at
> High Hunsley transmitting station for FM radio. The older photos at
> http://tx.mb21.co.uk/gallery/high-hunsley.php show it (at the top of the
> structure) but they are rather distant. The modern replacements are
> basically crossed dipoles in front of reflectors. A significant challenge
> in the design of these (big) things is to get the horizontal radiation
> pattern to hand over cleanly from one element to the next around the
> structure, without lobes or nulls in either the vertical or horizontal

> component. In UK Band II broadcasting, the polarisation is usually said
> to be 'mixed' rather than intentionally circular. The Alan Dick company
> www.alandick.com/broadcast_antennas_product_004.htm still offers a
> Lindenblad array for Band II. Their 'FMAC' looks interesting!
>
> As to your question, I'm not certain what you mean so perhaps you could
> amplify a bit. Certainly if the paths of currents, their relative
> amplitudes and their relative phases in time, appear the same from
> different directions then the polarisation should be the same in those
> directions. A short helix can operate as a broadside and end-fire antenna
> at the same time and I know the quadrifilar helix is a popular option for
> small L-Band satellite terminals. However, that radio-camera application
> imposed stringent demands for axial ratio and, obviously, the requirements
> for satisfactory reception of CP signals from satellites can be less
> demanding when CP is used simply to avoid loss on account of mismatched
> linear polarisations - when the other sense of CP isn't in use at the same
> frequency by the same satellite.
>
> Chris

Hi Chris

The Lindenblad antenna is fed to produce a null toward zenith. The
Lindenblad antenna as defined by Brown and Woodward in the mid 1940s for TV
transmission, has an omniazimuth radiation pattern.
The DCA has no zenith null.

If you consider an antenna with an overhead null to be the same as an
antenna with no null to be the same, I have no expectation that you and I
will agree.

The DCA offers little advantage over a Quad Helix when radiation pattern
is considered.
The DCA is slightly more sensitive toward the horizon than the Quad Helix.
.
The bandwidth of a DCA is far wider than a Quad helix.
The DCA is very insensitive to dimensional errors when built by an
amateur. The Quad Helix is extreemely demanding of prescission of
construction.

The original subject of this thread was related to building an antenna for
reception of Low Earth Orbiting satellites. I figured the OP could
appreciate knowing that a DCA will perform better than a Lindenblad and
needs no series matching transformors.

Jerry KD6JDJ

987. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 03:39:10 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <qLrkl.13310$2k1.2893@newsfe01.iad>
Source record: 17611

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:aecb6733-9c45-482d-89aa-892c867905a1@b16g2000yqb.googlegroups.com..
{snip - in the early days of Usenet, many sites would not allow messages
where the quoted text was longer than the new text; it is still considered
bad manners to do this}
> I believe what you are describing is Duco cement the kind that I
> used to use to build model cars.
> Is that stuff still around? I think they took it off the market
> because of the glue huffers. If it is still around it should make
> excellent coil dope.

Duco Cement is made by the Permatex division of ITW/Devcon. It has not
been taken off the market, but in some communities its sale is restricted
to keep it away from children.

Duco Cement is cellulose nitrate dissolved in acetone. It is plasticized
by a small amount of camphor (probably for historic reasons, camphor was
the plasticizer used in celluloid and pyroxylin around the turn of the 20th
century).

As I stated in the post you quoted, cellulose nitrate is far from the best
radio frequency insulator. Fingernail polish performs slightly better as
an RF insulator but polyvinyl chloride is worse. I still recommend General
Cement commercial Q-dope which is polystyrene dissolved in toluene or
methyl-ethyl-ketone (GC has changed their formulation). You can make your
own inexpensively by dissolving Styrofoam shipping "peanuts" in toluene.
methyl-ethyl-ketone, or acetone. Of these three solvents, acetone is the
safest. Home Depot used to sell all three solvents in the past, but sadly
there is no store near me where I now live.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

988. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 05:07:50 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <vdm4p41p1a9tts2tfrct5v9b2mev2vh84b@4ax.com>
Source record: 17612

On Tue, 10 Feb 2009 21:00:32 -0500, "Dr. Barry L. Ornitz"
<BLOrnitz84@charter.net> wrote:

>I have recently been working on an introductory paper for electrical
>engineers on the mechanical and electrical properties of polymeric
>plastics.
(...)

>"The electrical properties of a polymer are due to the structure of the
>polymer both microscopically and macroscopically. Most polymers are
>dielectrics (insulators) as opposed to metals where electrons can move
>freely.
(...)

Argh. Is this really for an introductory (beginning) publication? I'm
either fatally obsolete (the most likely possibility) or materials
have progressed well beyond my 25 year old chemistry experience. Looks
like I'll be doing some more reading to decode the technical terms.
Don't change, as I prefer accurate and complete explanations even if I
don't initially understand them.

I'm partial to seat-of-the-pants testing for RF loss using a microwave
oven. In general, if it gets hot in a microwave oven, it's going to
be lossy. I haven't tried various coil coating formulations and
tapes. However, I have tried various common hardware store plastic
and fiberglass products to find something suitable for a 2.4GHz
antenna radome. The problem was that it was impossible to assign a
numerical value to the RF losses using the microwave oven test. Some
would be hotter or less hot depending on the color (doping). My IR
optical thermometer was also rather sensitive to surface reflectivity,
resulting in additional errors. Still, the stuff that didn't work,
was fairly obvious by the deformation, smell, and sometimes smoke.
Incidentally, I've lost count of how many microwave ovens and toaster
ovens (for glue curing) that I've destroyed.

Thanks much for taking the time to supply the technical detail on
various materials and techniques. I've learned more from your
postings than from the usual uninformed speculative rubbish (such as
what I tend to post).

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

989. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 05:33:47 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <1cn4p45i2tp8edo7qa6sfjhk5g632eg2aa@4ax.com>
Source record: 17613

On Tue, 10 Feb 2009 16:04:16 GMT, "JB" <nospam@goofball.net> wrote:

>> You might want to consider using RG-6/u instead of RG-59. These daze,
>> the quality of RG-59 coax is rather marginal. I've seen 80% coverage

>Beware of the Aluminum foil and shields though. Once it gets wet there is
>no stopping the internal corrosion and will generate broadband noise under
>power. This includes both RG6 and 9913 and LMR types. They have been
>banned from all commercial sites around here.

Amazing. I can see it's possible to create a diode mixer junction
with electrolytic action between the aluminum foil and copper braid.
I've never seen broadband noise from coax cable. Usually the foil is
mylar or polyester coated and the copper is tinned or silver plated to
eliminate any points of contact. Most of the radio sites I've seen
are stuffed LMR-400 and LMR-600. Heliax is better, but also far more
expensive. Incidentally, if you want to generate RF noise and mixing,
there's nothing better than an abraided Heliax outer jacket, with the
copper shield touching the zinc galvanized tower.

If intermod were really a problem with foil shielded coax, then the
common residential CATV distribution system would have a big problem
with intermod and mixes. While the buried coax is semi-rigid with a
solid aluminum shield, the pole to house drops are usually quad
shielded RG-6/u (sometimes with a messenger wire) with foil and braid
shields.

>Bring a knife with you and inspect before you buy. Tinned Copper braid is
>better, Silver clad rigid is best.

Mylar or polyester coated aluminum foil is more important. Scrape the
insulation and see if it flakes loose from the foil. I've seen this
on very old 9913 and some new LMR-400 of dubious origin.

Slight change of topic.... do the commerical sties that ban foil
shielded coax also ban nickel plated connectors? Just curious.

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

990. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 06:02:54 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <iStkl.133$g31.106@nwrddc01.gnilink.net>
Source record: 17614

What about contact cement? What i have states it is a "polychlorprene-based
contact cement.

"Dr. Barry L. Ornitz" <BLOrnitz84@charter.net> wrote in message
news:Yiqkl.4801$rt3.428@newsfe15.iad...
> Roy Lewallen, W7EL, wrote:
>> Dr. Barry L. Ornitz wrote:
>> . . .
>>> Roy Lewallen, W7EL, dipped a number of coils in various materials
>>> (RTV silicone, epoxy cement, Q-dope, hot melt adhesive, etc.) a
>>> while back and then measured their losses with a Q-meter. If Roy
>>> can find his old article, perhaps he can post it again.
>>
>> Great memory, Barry! It was posted on Dec. 16, 1998. A copy of
>> the original posting follows. I didn't do any other experiments as
>> I said I would, and I've gotten very little confirming or
>> contradictory feedback.
>
> Thanks Roy, but reading your article, I have concluded that my memory is
> somewhat faulty. I had thought that cellulose nitrate had low dielectric
> losses, but it turns out that what I was really thinking of was clear
> fingernail polish which is made from a mixture of cellulose acetate,
> cellulose acetate propionate, and cellulose acetate butyrate. These
> cellulose esters are still not excellent radio frequency insulators, but
> they do a better job than cellulose nitrate.
>
> I have recently been working on an introductory paper for electrical
> engineers on the mechanical and electrical properties of polymeric
> plastics. The following paragraph from the paper explains the basis for a
> polymer's electric properties.
>
> "The electrical properties of a polymer are due to the structure of the
> polymer both microscopically and macroscopically. Most polymers are
> dielectrics (insulators) as opposed to metals where electrons can move
> freely. In polymers, the electrons are tightly bound to the polymer
> backbone through covalent bonding which resists the movement of electrons.
> Not all polymers behave the same when an electric potential is applied to
> them. This difference in behavior allows plastics to be classified as
> polar or non-polar. Polar plastics do not have fully covalent bonds
> leading to a slight imbalance in the electrical charge of the molecule.
> In polar plastics, dipoles are created by an imbalance in the distribution
> of electrons and in the presence of an electric field these dipoles will
> attempt to move slightly to align with the field. Because of the temporal
> element of the movement of the dipoles, the frequency of the applied field

> strongly affects the motion of the dipoles. In non-polar plastics, the
> molecules are symmetric and the bonds are fully covalent. No dipoles are
> present to align with the electrical field. However the electric field
> does move the electrons slightly in the direction of the applied field;
> this is known as electron polarization. This movement is effectively
> instantaneous and the effect of frequency on the dielectric properties of
> non-polar plastics is quite small. Non-polar plastics tend to be
> excellent insulators and have low dielectric constants and low dielectric
> losses making them useful for the dielectrics in capacitors. Polar
> plastics, at low frequencies, have enough time for the dipoles to align
> with the external field. At higher frequencies, the dipoles do not have
> enough time to fully align. The result is a decrease in the dielectric
> constant with frequency. The hindrance to the movement to the dipoles, a
> form of internal friction, causes heat to build up in the polymer. This
> increased dielectric loss is the operating principle behind radio
> frequency heating and microwave ovens."
>
> From their atomic structure polyethylene [PE], polytetrafluoroethylene
> [PTFE, Teflon], and polystyrene [PS] are nonpolar plastics with low
> dielectric constants of 2.3, 2.1, and 2.6 respectively. Of these, only PS
> readily dissolve in solvents.
>
> The repeating unit of cellulose, a natural polymer, has three hydroxyl
> groups which may be substituted with inorganic or organic acids. When
> nitric acid is used, cellulose nitrate is produced. Cellulose trinitrate,
> the explosive, has three nitrate groups per repeating unit. The ester
> used in lacquers and Duco cement is not fully nitrated with a degree of
> substitution between 2 and 3. Because of the nitro groups, which are
> quite polar, cellulose nitrate has higher dielectric losses than the
> esters made with organic acids. These esters are much more lossy than
> true nonpolar polymers, but less lossy than very polar plastics like
> polyvinyl chloride [PVC].
>
> So for a coil dope with low dielectric losses, I suggest polystyrene
> dissolved in acetone or toluene. Clear nail polish will work in a pinch,
> but it might be better to use hot melt adhesive, or paraffin wax. If you
> can wait a day or more for it to cure, some of the room temperature
> vulcanizing silicone products work well too.
>
> --
> 73, Dr. Barry L. Ornitz WA4VZQ Text in Quotes:
> Copyright 2009 B. L Ornitz
> BLOrnitz84@charter.net
> [transpose digits to reply]

991. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 06:11:07 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <24mdnd-fv9od9g_UnZ2dnUVZ_hmdnZ2d@posted.easystreetonline>
Source record: 17615

Jeff Liebermann wrote:
> . . .
> I'm partial to seat-of-the-pants testing for RF loss using a microwave
> oven. In general, if it gets hot in a microwave oven, it's going to
> be lossy. . .

If it gets hot in a microwave oven, it's going to be lossy at 2.4 GHz, but it isn't necessarily going to be lossy at HF or even VHF. However, if it *doesn't* get hot in a microwave oven, it's probably pretty low loss at any frequency up to 2.4 GHz.

There is, of course, a problem with reducing loss to a binary quantity of "lossy" or "not lossy". A relatively high amount of loss can easily be tolerated at points of low electric field strength, such as an insulator at the feedpoint of a half wavelength dipole. On the other hand, you need very low loss for some other applications like potting high Q inductors or for feedline insulators when the feedline has a very high SWR.

Roy Lewallen, W7EL

992. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 06:25:06 UTC
From: k3vr@hotmail.com
Message-ID: <1gr4p41pf4sknid3v01c17vehpkn99srdh@4ax.com>
Source record: 17616
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositiveplace@netscape.net>
wrote:

>k3vr@hotmail.com wrote:
>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
>> wrote:
>>
>>> k3vr@hotmail.com wrote:
>>>> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
>>>> wrote:
>>>>
>>>>> dloydlavies@gmail.com wrote:
>>>>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>>>>> <assemblywizard@gmail.com> wrote:
>>>>>>
>>>>>>> K4YZ wrote:
>>>>>>>> Nope.
>>>>>>>>
>>>>>>>> The IP Address and servers are complete proof that I do NOT share
>>>>>>>> any annonymous character's "address".
>>>>>>>>
>>>>>>>> Sounds like Lennie, to me....
>>>>>>>>
>>>>>>>> Steve, K4YZ
>>>>>>>>
>>>>>>> To anyone with even an elementary understanding of anonymous proxies,
>>>>>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>>>>>> IP address and header details is simplistic, indeed, with little time
>>>>>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>>>>>
>>>>>>> You waste my time. Worse, you think us all idiots here. You remind me
>>>>>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>>>>>> with members of little or no technical knowledge and then call in
>>>>>>> "expert witnesses" and propose arguments of technical details to boggle
>>>>>>> their minds.
>>>>>>>
>>>>>>> You have only proven that you, yourself are either ignorant to such
>>>>>>> technical details, or else you are indeed street smart, I favor the
>>>>>>> latter in this case (however, if you in the dark about such things, 15
>>>>>>> minutes on google will enlighten you.)
>>>>>>>
>>>>>>> JS
>>>>> Are you about done spamming this stuff? Can we please get back to the

>>>>> discussions that these news groups were designed for? Please?
>>>>>
>>>>> Ron
>>>> id love to but sme folks just will not alow not my fault and thye need
>>>> tohe reminder
>>> I suppose in English that means "No".
>>
>> it means ask someone else
>
>If the original post of mine was not to you then why did you answer? Do
>you know the name you post under?

it seemed to be me I am telling it iswas msiderected

>
>>
>>> Most of have no need of a reminder, thanks. Maybe you feel the need to
>>> remind others, and now that you have done so please refrain from further
>>> spam.
>>
>> well again that depend on other when they make it clear they don't get
>> then they will reminded yes along with yourself and other sadly that
>> is the way the usenet works
>
>Again, your use of the English language is a bit ... vague.

hardly vauge at all

it seems and to the point

if other parties would demostrate they finaly understand then then a
repeat will not be needed

based on past performance I don't even if they understand that it will
last at all

>
>>
>> indeed as certain of those that seem to need reminders are the
>> subjects of FCC enforcement actions I help to generate I sadly expect
>> that they will ned more remidners in the near future but that is up to
>> them
>>> Ron
>
>You you feel that you are the one, the best qualified, to provide these
>"reminders"?

aboslotely

indeed as the targt of the remarks that indicate the need for a
reminder I am thealmost the only one in the world able to ntice

>
>With the sad state of your command of the English language I'd suspect
>any claim that you generated an FCC action.

ah now you are just being insultingand foolish
>
>Kindly allow the individual to whom I posted the original "post" to
>answer.

alow myself to post? how could I stopp anyone form posting indeed If I
had that power I would used it
and if I had the power to stop someone from posting no one would
need remeinding

> If he can that is. Somehow I doubt that anything beyond spam
>is a reach for him.

HUH?
>
>Ron

993. AWESOME - FBI Believed that Bombs Used on 911 - Bush closed 911 investigations according to the FBI - Where is CNN and CBC here? is this an issue of life and death or no? - Who are we to Judge?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 06:57:28 UTC
From: No evidence against an accused is US being truly abused
<No_evidence_against_an_accused_is_US_being_truly_abused_nomailhere2@hotmail.com>
Message-ID: <fmt4p4dnu2aitlgugfldjnpjeoae56elkr@4ax.com>
Source record: 17617
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

FBI Believed that Bombs Used on 9/11
http://georgewashington2.blogspot.com/2009/02/fbi-believed-that-911-involved-bombs.html

/ / Indeed, the FBI told a reporter for
USA Today that FBI agents believed there
were bombs in the Twin Towers. \ \

Awesome. Where is CNN and CBC here? Is
this an issue of life and death or no?
Who are they to judge OUR lives unworthy
of defense? I am King Johnny. Support my
demands for open communications above the
NWO shills who bark Bush and the Neocons
must be allowed to escape our Public
authoritay.

-

Calling for Americans to Investigate Bankers
http://www.megaupload.com/?d=WJS4WDAA
(on with Robby)

Private Banking Made Simple

http://www.megaupload.com/?d=0K03GAVY
http://www.mediafire.com/?xo9w32zmfox

King Johnny's "Nazi Israel"
http://www.megaupload.com/?d=QAEXT4G0
(note: History has changed since then)

CNN Admits 9-11 Inside Job
http://www.youtube.com/watch?v=uyMIqVfH8zY

Report Of ï¿½People Planting Bombsï¿½ on 9/11
http://www.prisonplanet.com/report-of-people-planting-bombs-on-911.html

Why isn't Happy George Norry, Our Enemy, covering
this everyday as an important subject to defend
American life he holds truly in contempt?
Again, Alex Jones leaves every American to die
victim to his NWO, before he will acknowledge
TRUE evil in our world. George Noory, the evilest

ACTUAL Enemy of History, Alex claims is a good
guy for never allowing open discussion on 911,
Afghanistan, Iraq, and so on, without selling
his Zionist hate for our Humanity. Can you believe
that demon enemy co-ksucker Ian Punnet actually
preaches? The demon has told US more than once
he doesn't believe in God, so what do you think
that other "buddy" of Alex Jones has in store for
your life? Alex has said near a hundred times, that
Christ's disciples were all killed by the Romans
for believing - what a demon he is - for - what
Bible is his fans conceiving? Again, Alex Jones will never
encourage his listeners to demand open debate. Alex
would lose on all his lies like, he's been on with
George Noory a hundred times, or fifty times in
five years. Why does Alex lie to US all like that?
Because he doesn't really want Justice to prevail
where GREATLY wiser men or women would likewise prevail
through open dialog. Alex can't have that because
everybody MUST be under HIS NWO mind control.
Mind control on education, the Federal Reserve,
and FREEDOM. Alex figures having a gun to shoot
innocent Americans in the back is his brand of
loyalty to God and Country. Well, I, as Christ,
state it isn't mine. He would see every American
murdered, before allowing the notion that he, and
his likewise cult, might just have something to
learn about evidence being a REQUIREMENT to prove
someone's guilt or innocence. His godless commitment
is to escape Bush, and his zionist media controllers
with excuses that don't hold water in any Court of
Thee. Alex refuses to allow Americans to know why
the Constitutional protections are there to defend
yourself, because if you did, you'd demand the
arrest of Bush for treason, and call Ron Paul an
sell out loser who pocketed the millions conned for
being Alex's loyal fans. Alex doesn't like this Truth
because he's gotta be leading Earth's "Truthers"
at the pinnacle of his spear as a liar, where all
of History, is one badly drawn Alex Jones cartoon - a
dickhead. A true dickhead illiterate on the bible,
on Justice, on Life.

I must be on crazy pills
http://www.uruknet.de/?p=m51615&hd=&size=1&l=e

/ / Well, why haven't the banks just returned
the money?... \ \

People who know they defeat all "Conservatives"
in seconds with indisputable simple logic, will

eventually rule the Universe, if CNN, CBC, and
Alex Jones allow open communications on what is
understood by all as high acts of treason openly
committed without a defense of smart people
explaining why/how we are being rooked as idiots
on purpose. Crazy man, crazy. Oh.. anda..
justwondrin', would be the first name Reza be that
of the feminine or, echem.. masculine? Just
curious on language that's all..

Oh, logic like, "Buying in bulk is cheaper."

-

Godsmack - I Fucking Hate You
http://www.youtube.com/watch?v=FiPtHkfDXus

Hey! Johnny's new theme song playing when
I be bagging the bushite zionist whores of
the demon antichrist, Our Mr. Bush Jr. Bush
closed 911 investigations, Bush lied about
Saddam not letting inspectors in, Bush never won an
word fairly in his entire war crime life of
game rigging with naked deceit and betrayal to
the cause of Man, die bushite die. Rock on
my friends, rock on.

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why
bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what
any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

LIFE IN PRISON FOR AMERICAN VICTIMS

[godless bushite enemy] Marines ignore Afghan opium so as not to upset
locals
http://rawstory.com/news/2008/Marines_ignore_Afghan_opium_so_as_0507.html

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.megaupload.com/?d=M6JS2KWD
http://www.mediafire.com/?myz0etmzx1y

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough
-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the

deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate
cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-c
hildren-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty
verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Ten years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all
around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives

of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be
an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men.

-

(pet bed cat trees...)
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would
have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors
in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not
Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'

dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

-

U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"

force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministeri¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow
/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change
this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&pla
ynext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never

mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3
http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the
coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&
scoring=d&

Huh? "at last been disarmed..." ? How does he figure?
The equation hasn't changed. Example: The same
unaccounted anthrax, (that was disintegrated into ash),

still is not able to be measured as completely accounted for, (never could be), but this bushwhoring war crime apologist, tells US, it was only though the lawless murder of our good friends and family for countless generations, that he now attests without reason, or evidence, to find Iraq in "fact" disarmed of it's still nowhere to be found, weapons of mass destruction. (An irrational reason he pronounced previous in corporately broacasted public support of instigating heinous war crimes against our humanity under the leadership skills of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron. And, the Iraq war is a war crime. But Ron, the Fascist, doesn't want THESE FACTS uttered. Why? Because wiser men would prevail, wiser men like me who understand buying in bulk is cheaper. Those like Christ who understand, who KNOW, the banker doesn't cover our loans - so why give them as much as a taxed red penny?, let alone trillions as officially unaccounted for? They are stealing the cash Ron. Ask yourself: Why has Alex Jones forbidden his bushwhore cult from understanding Bush doctored the NIE?, or of iron flowing like water from the towers? Because wiser men would prevail and he can't have that. He called shooting innocent men in the back, an act of liberty. I, an actual god, unlike Alex, lie near never, but maybe to myself when I'm lonely. Alex yes will tell you rapists are free to do what they will in Texas to American children, un-arrested, but he won't mention it when the police chief is with him on air, talking about how he'd like to be exempt from traffic tickets for being so popular. NO MENTION of the rapists walking away without arrests made, no mention of Bush's documented treasons on 911. Where are Alex's priorities? In selling YOU out so he can be wealthy like a bankster?, and have special rights over everyone else that drives drunk, or speeds? a big hero standing over our dead soldiers yelling, I told you so, I told you so, I was right, I was right. Again, understand: It is not by my will to deny open debate with America, it is Alex, and his demon buddy George Noory that denies out Humanity this right. And when people try, like Peggy, or Black men on Jewry, Alex lies cheats and steals our wills for further thefts. Ron Paul's family has

millions taken from loyal Alex Jones fans. MILLIONS! Does Ron do commercials with that money highlighting the bushmob's plan to invade Afghanistan, dated two days prior to 911 for Enron? Of course not, wiser men would prevail to expose him as the charlatan charity raider he is regarding Health Care, Social Security, Public Schooling, earmarks.. It is unfair to measure Ron against corporate nazi zionist whores of MSNBC who willing, openly, kill American teen soldiers for criminal neocon gains, as an honorable gentleman's talk. Half honest People like Ron are extremely ignorant on the workings of our world. EXTREMELY. I joke here not. Evil is the deceived disguised - translated - evil people are always dumb.

Corporate America says no, Charlie Manson was a genius, but not, that most Americans are prone too easily to suggestive states where they can be made to believe anything blindly. Think: what does, "bin Laden did 911" mean anyway? You should know of what I'm trying to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by beating off he knows everything already. And some, if not most, actually believe him without knowing squat either. It's sooo easy that way - no study required!! LIBERTARIAN HELL! Everything is not on the Internet, where it near should be, but regardless, a Libertarian can't be bothered to read anyway. "Free Talk Live" is the best example for this: the two hosts are unbelievably ignorant on just about every single subject under the sun, but beat CONSTANTLY, on how greatly wise they are as drop-outs. You wouldn't believe any of them when they speak on Freedom, if you simply understood, an innocent man does not deserve to be in OUR prisons, or tortured. Under any circumstances that Obama has excepted for our excuses. Magna Charta. But in Alex's 'genius' mind, he doesn't need to actually understand he is a for sure bigot, (measures another unfairly in a group HE concocts from blind hate or personal fear - typical CONSERVATIVE and/or racist) who has no problems with that at home, or at work. Provable in seconds by OPEN DEBATE, but Alex ain't gonna take our calls because, he can't for the lives of every People person thought of here, admit he could have something to learn, therefore, the NWO is unstoppable in his brain washed cult of indifference to Justice practiced for the benefit of all treated fairly. Why? He's not wise enough to respect the great minds of the audience, and I personally believe,

he doesn't even have the good judgment to own
a gun. (I mean, why wouldn't Alex find my stories
of OUR Justice system triumphing by my single hand at least
minimally beneficial to his blind cult followings? to not
hang up on me immediately while spewing lie after lie
on how I'm top secretly a dis-info NWO artist working
for Bush? or whose voice sounds too friendly to trust?
like he has done the last four times I've phoned -
Hey! I can be an asshole if you want - no prob.)
Perhaps it's near because, Alex Jones is blind, and
as such, could actually be found guilty in Texas for
murdering those two innocent black men shot
in the back with his approval to release the murderer
from a RIGHTFUL death sentence prosecution. "law of
Parties". He is a party to the crime, for he worked to
support the release of the FOR SURE, FIRST DEGREE MURDERER.
Sound like an America you could live with? I didn't
think so either. I wanna be Alex's Attorney. Texas is
a State of massive lawless corruption, as dire
incompetence in legal affairs where they OFFICIALLY
plan executions against innocent People not established
to have harboured criminal intent! With Jury Trials!!!!
!!!!!!!!!!!!FINING THEMSELVES GUILTY!!!!!!!!!!!!
While Alex does express murderous criminal intent,
and the Police chief calls him a good man for no
scary pressures. What the fuck is wrong in Texas
where they mess themselves like this regularly?
Imagine, while Bush with the Neocons escape, and
Zionist Israeli target to murder Christian School
girls OFFICIALLY, Alex doesn't want to have to pay
traffic tickets like the rest of US. What a douche bag
to tell he LEADS our Truth movement I say. Now, I'm
not saying he shouldn't contribute with the truths
WE SHARE, far from it, it's just he can't have our
cut off switch to silence our objections to his exposed
foolishness, and/or blatant criminality. I'll give him
a chance, for starters, to criticize any position I take
while we all publically call on ourselves for
assistance internationally. Like on his "buddy",
George Noory, deserving to be tried Publicly for the
traitor he is, and be formally executed after his day
in Court. Our Courts. Teen soldiers have been conned
to die by George Noory for the escape of the neocon
terrorists who committed 911 with Condi, Runsfeld,
Bush, Myers, Tommy Franks, and General Ahmad. AND
HAPPY GEORGE NOORY KNOWS IT - and cons with lies
naked to the ear of any who can listen or hit record.
A NAKED traitor to the cause of Liberty if we ever knew
one regarding the War Crime facts of Iraq. .And
Ian Punnet is an evil godless enemy Bush whore who

lies too to get YOU killed as the innocent soldier
forsaken so don't forget.. It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars
awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable
death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

/ / the FBI says no.. There is not a thread of
fact a zionist offers to form YOUR own mind in
respect for your rights being equal to ours. \ \

Who is the guy who keeps writing such things,, and
shouldn't he be recognized as Promotional to raise
all spirits towards a better future? I'm with him.

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes

http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

Alex Jones, the Slave, told US today that
he challenged Bush for eight years - Bushite
lying nazi traitor. Not only that, but he
also ridiculed those who wish to blame Bush
now for anything! Again, he doesn't want
Justice where bad guys can't steal from
ourselves unrepresented. Ron Paul is a
multi-millioniare, made rich by charitable
aid conned from Alex Jones' NWOers! Alex
Jones doesn't have a problem with that, we
do.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

-

Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Dashle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

http://www.iran-daily.com/1387/3324/html/east.htm#s359247

/ / International attorneys have filed war crime
charges against 15 Israeli political and military
officials including Ehud Olmert, Tzipi Livni and
Ehud Barak. \ \

-

We must demand open communications to bring back
values WE ALL would agree to through polite debate.
"Conservatives" don't want this Freedom idea
expressed in general terms because, a "conservative"
is universally, minimally. a bigot. Why? Life isn't
like, their way, - then- all other opinion under
the sun on how things actually get done. (Aka
"socialist" traffic light repair men, or "liberals"
who want to treat The People fairly). Or who we are
as equals to our laws fairly practiced. Pay attention
to what I am saying here. Liberals can be Dicks with
a capital D too of course. But a Hannity couldn't
survive 2 minutes with me speaking on his very real
treasonous behavior in OUR public arenas. Behavior
done to escape the 911 culprits from the long arm of
the Law, with his conscious will of criminal deceit
exposed, we all learn to better defend ourselves.
And Shawn Hannity can't have that for ourselves, he
takes too much money from ourselves as talentless by
keeping US in the dark dying needlessly for traitors
never elected publicly.

Who am I you ask? Johnny Law. at your service. Look
me up with usenet to discover, we live in a world of
idiots everywhere pretending to be somebody by lying.
While I want US all to truly improve our condition by

actually understanding how bad off we are by failing
to respect ourselves for correction. Too many, know
it alls, with not enough to know you need evidence to
form a guilty verdict against an accused man or woman.
Not according to CNN, CBC, MSNBC, Foxnews and the like
however. Let's change this by supporting my challenge
for top billing at the Coast to Coast radio show hosting.
Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the
view count? What is this business of a=a+1, the
top secret, I'll go rhythm, that is way beyond
our comprehension in it's scientific complexity?
For Americans, okay, but the Human species just
isn't this dumb.

While Zionists OFFICIALLY target Christian school
girls for mass murder, CNN instead reports that
bushite grunts attacked girls in Afghanistan, posing
as Taliban. I WILL every celeb at CNN to be arrested,
tried and executed for the reporting they have done
today without facts. Remember: the Taliban played no
part on escaping those responsible for 911, and opened
schools for girls, and were brought together on the
single purpose to defend women. Death to CNN reporters
to LIE for killing OUR school girls. I HATE zionist
enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US
officials from torturing but it does not ban any
of them, himself included, from sponsoring torture
overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants
the death sentence under Reagan's "War Crimes Act".
SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!

"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close
Police investigations immediately after
911 (obstruction), or that WE have video
of iron flowing like water that PROVES,
without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with

all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice like your deviant election rigger,
Ron Paul? Well, no wonder, Alex told US he's
into shooting innocent American People in
the back as a tyrant of evil, a white Devil
if you will. Kids too if you dare look in
his back yard for a copper. See? Now if Alex
doesn't allow US to speak, more and more will
understand to know why. I am a defender of
all that is right and just in this world,
because I don't need to lie like Alex does on
a huge host of issues. I'm more like Jessie
Ventura, in where I don't need/want to lie.
If I end looking foolish, (of which I like
never truly am), it's a benefit, because that
way, I've learned something. Alex knows
everything already, and 'is always right'.
Like I say Retarded. You weren't right by not
understanding that the banker doesn't cover
the loan. One example of easily hundreds. He's
a typical, he knows it all, know nothing dumduk
American. Hear him on health care speak as
Ron Paul does, and know, I defeat them in under
ten seconds. TEN SECONDS. This is why he hasn't
in years, allowed me to speak more than five
or six words. He's rather all America die, than
admit he does NOT rule our 'Ocean of Truth'.
I want the challenge of opposition through debate
to PROVE my skills beyond reproach. Alex,
every time, just hangs up on anyone who tries
to improve our communications by factually
speaking. Why? Because he IS TRULY deeply
ignorant on what freedom or Justice means. Why
we have law. What a consensus is. Allan Watt is
severely disabled in this regard, another Alex
Jones favorite. And this is why, Allan can't
take calls openly either. He has jerked off
with himself too long to quit now learning
super basic precepts, for like Alex, he "knows"
the inner workings of the 'genius' NWO elites.

Not Law 101, not Bush, not Rumsfeld, Not Condi, not Torturers, not bank robbers, rapists, or even petty thieves. Allan Watt isn't a bad guy, he's just a chauvinist pretending he actually knows something, when his real disability is directly related to his absence in understanding understandings. Doubt is a near foreign concept. A challenge for Allan: can you get your 'genius mind' around the fact that Peter Powers did the London bombings, and not the Illuminati of 1463? and if not, why are we so dumb to our present plight that way? Don't get me wrong, Allen has much to offer, it just isn't the issue right now on saving our dying futures. Maybe I was too hard on Allen, he is really actually kinda cool. Alex Jones too has many incredible moments of ecstatic clarity increasing in all they joy of seeking enlightenment. .. Ok - but this is serious business that requires little dilly dally with what we'll have as a side dish in Paradise Lost. We are talking Human Lives have been destroyed by our inaction to remedy these failures to communicate effectively. and.. Jeeze, the weight of my responsibilities, as just plain John, being a/the Legos Man - for like the Family and everythings, get's me never forgetting, all we got are these words left dormant from the power they truly possess in the minds of the wise asses. And.. here I am. I'm a Talker of Words looking to make a break in the NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches who openly advocate tyranny and oppression through mass murder of ourselves as the innocent left targeted defenseless. Enemies of Jews everywhere, the Zionist cares not for facts on who's Life it destroys for stolen gain by lying. That's why they target Jews, for fear the Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so, why not demand the arrests of those who broke the truce, and murdered innocent people indiscriminately, on plans more Jews would die for cash profit? Profit paid for by zionist amerika? - the false imprisoning

torture and rape center for Neocon
Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

/ / This has been a central theme of the war in
Gaza: not that hundreds of innocent people were
killed, not that over 5,000 were horribly injured
and not the sky-high human and monetary cost of
wrecking homes or razing infrastructure. \ \

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival
-in-brussels/

"We believe there were dozens of IRGC
personnel in the Gaza Strip during the
war," an Israeli source said. "Some were
killed; others went into hiding, and
others escaped."

See? the demon enemy of God speaks no
evidence as a TRAITOR to every Jew. A terrorist
nation that still steals humanitarian aid in
our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Where are the Americans asking for the
formal arrest of Bush for high treason?
Whoring for Alex Jones's contempt for REAL
Justice? The ignorance of all American
talk radio hosts speaks for itself. NO
knowledge on why acts of high treason, are
crimes against every American. The bushmob
doctored the NIE, and Alex doesn't want
Americans to know, because if they did,
they ask, why does Alex do everything he
can to escape those personally responsible
for 911, while then asking for money to
continue his fight against freedom in
America. Again how much money do we have to
pay Ron Paul or Alex Jones before they
will allow the knowledge of the Iraq war
against Human will is criminal? How much?

Obama! feel free to call
on me to help out with a plan for judicial
actions. That offer goes out to everyone in
Palestine, Canada or Britain too. Russia,
let's help out these fools by freely
communicating, what say you? Justice
for all is freedom to be. The Israeli cop
killers must be brought to justice for war
crimes. Those cops, were cops. And I,
am a man.

Alex Jones Rocks!

Now Alex has problems in "my" mind because I am
an ACTUAL genius, and he is generally, an idiot.
Today, he did one of his usual commentaries, however
this time, he was pretty honest with himself, and
his love for Ron Paul. Ron Paul sells incompetence,
and Alex corrected correctly!. that a.. sorry Ron
but these banksters know they're robbing us as
undefended blind men essentially. That's what I'm
talking about!! Look, Ron Paul can be a dumb Ass,
although, he's still not all that bad a guy. A Dumb
guy on things like economics sure, Justice, warfare,
Health Care, Social Security, ect. ect. but still.,
like a child learning of why the sky is funny
blue, isn't all that bad a guy really. He's
certainly not a war criminal, like Bush or
Rumsfeld are. Doing 911 then sanctioning torture.
While Neocons Champion sending illiterate American
teens for death as war criminal. Think about it.
Maybe he is..

-

ï¿½We have all these documents that are now
publicly available that prove that these
methods of interrogation were intentionally
ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy
like Willie Brand "the right" to RANDOMLY kidnap
men, women, or children, and torture them to
death for sadistic pleasure with his faggot
Capt, Christopher Beiring. (I think that's
how it's spelt). But anyway, this is the truth.
A bushite is a godless Zionist whore of Nazi
evil, an enemy of America, who wars YOUR Freedom
with criminal "excuses", for refusing to support
the arrest of those responsible for 911. A
TRAITOR, and could be wannabe rapist, robber, or
911 mastermind ringleader. Torture is illegal,
and warrants the death sentence, according to,

Reagan's "War Crimes Act". Some only suggest,
that this was why someone tried to kill him as
honorable. Death to the torturers of our
innocent families, torture they do without
apology as Zionist Military "Judges". Instead
today, where they get salaries paid in the
billions by the zionist giving nation of,
a-mirror-kay, echem, America. Johnny's America.
A nation where Justice will rule for the favors
of all treated equitably with or without you.
Honor me in company my friend. We have no rivals.

"they do not understand, the private banker
never covers the loan. Never does a private
banker reach into it's pocket to borrow US
to begin with - so as a consequence, the
bankers have just pocketed all the 'free'
loot for nothing, TRILLIONS, and are not
saying why should they help anyone else
up with charity?" Then went on to say, it
wasn't any of our business with what they
did with the money. (But for to cover criminal
fraud in the derivatives market, where
the true value of said commodities were
backed by ZERO capital. ZERO DOLLARS. WORTH
NOTHING. So, think about who's truly giving
it always here until Johnny, the man who
came out of nowhere, arrived to explain
everything in five or six minutes.

Support Johnny America for Coast to Coast
Radio Host!

-

Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoo
t-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen
for death by war crimes trial more like. Death to
the criminal zionist enemies of Humanity. Zionists who
falsely accuse without evidence to respect our rights,
like TV corporated Americans who treasonously LIE,
'bin Laden did 911'. Enemies of Freedom for our
Humanity.

[JEWISH!] Arrest warrant: Ehud Barak
http://www.wanted.org.il/ehud_barak_en.htm

/ / For violations of the Rome Statute
& 4th Geneva Convention \ \

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..
let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our
times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for
'lawless' grunts of ungodly action against
Life as we live it. Targeting school kids
deserves death sentences, don't you think this
value is what every soldier should hold proud
with Johnny in America? In Israel? In
Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

This post was passed to near everyone in our Secret
Service defending Obama. Let US demand Justice for
the Victims of 911, by warranting for the arrest of
every Neocon Nazi Zionist pirate of OUR Jewish faith
for Public trial on LYING for War Crimes against
our dying Humanity. War Crimes against God.

A ZIONIST LIAR'S TRUCE

/ / live images of an Israeli helicopter hovering
above the city and dropping its white phosphorous
bombs on the city \ \

Again, the Zionist deserves to die by public trial
today to defend the Jewish faith. Look at usenet.
These demonic enemies go, 'yeah, Hamas broke the
truce', they do it to kill you. To steal the lives
of innocent Peoples to profit off our deaths as
victim.

Zionists are Satanic Demon Liars of Satan

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed
Jews for money. They starve Jews in Israel
to attract more charitable aid they can use
elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of
the Synagogue to Satan!!

"We also need a massive overhaul in Our news channel
prioritizing, including to add censorship free, open line
public communications. Done to gain value in learning from
the art of conversations. We need still to appreciate the
values of a free society where Justice is above all, the
measure of our success to communicate openly."

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and

still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

-

The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as
evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,
are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among
our brothers and sisters. I mean for Christ's
sake Tom, THEY ADMIT to sadistically
targeting our children for MURDER - as some
kinda Satanic demon whore to Pure Evil - aka.
Wanted War Criminals for Public Trial. Just
as the Nazis were for similar outrages. Let's
hope men of America are least half they were

then, but we are suspecting, they will as of
usual, balk as cowardly slaves to the private
banker man ruling their minds, it's a, no
wonder. Where is there that purpose striving
for a greater future living in a just society?
Where is the Christ in their Christianity?
to financially support the arming of such
unlawful Zionist killings in silence against
Innocent Christians?

Free Radio International Broadcasts Alive!

Johnny Justice for Coast to Coast radio host.

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's
verdict, if none is offered as in respect
for yourself as worthy the title of free
men? I ask as your self? Or are you as
the cowards of most in the American military
who refuse to speak for the arrest of those
who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they continue
to STEAL OUR CHARITY by breaking truces. What
is it that YOU can't picture?

"The view from the other side, that the Qassams
are a retaliation for the siege that starves the
one and a half million inhabitants of the Gaza
Strip, [a prison death camp,] was not mentioned
at all."

Masada legend galvanises Israel
http://news.bbc.co.uk/2/hi/middle_east/7830416.stm

/ / they committed collective suicide - men killing
their own families, afterwards each other, until

one [evil zionist liar] remained to kill himself. \ \

ISRAELI IS A THIEF WHO CAN'T SPEAK OPENLY IN DEFENSE OF OURSELVES IN OTHER WORDS? That is right. They, as documented criminal, lose every debate personally since before the dawn of Civilization because their position is clearly unsound. They are criminals who murder People in hate for a freed Humanity. They OFFICIALLY steal Peoples homes in that country didn't you know they proudly proclaim it so? And steal humanitarian aid from starving children. Targeted to murder children specifically as publicly confessed, 'it is Hamas WE blame', not them as demonic child murderers. Hideously evil as ungodly sadistic savages. Enemies of YOU, enemies of them, and enemies of me, the King of Jews Christ fellow from beyond the grave. They are so evil to God and Man, they tarnish everyone of US to not win justice sooner by blaming the actual bad guys. Justice is Freedom.

/ / Those white phosphorus shells used on the Gazans are made in the USA according to Jane's Defense. \ \

Again, these peoples are not Jews. Being Jewish is a religion. These thieves of God are Satanic in their LIES to betray the common trust in our words, that bind all worlds to victory, called freedom universal. Even tales of the Devil have him keep his word, with verses specifically condemning the self to damnation for targeting the innocent for death. God's the Word. Every word inside a fool's paradise. Including the periods. Not as like, I'm playing a word game, but that it in wonder, is all strangely here. Example: The Universe as it has existed always, is not separate from our 'pauses', or faulty drawn conclusions. The universe, in one sense, was as good as anytime, created 6000 years ago. AS TOO 50 billion. You say, impossible, I say no, study quantum physics, and know, I live this.. our existence is not scientifically separate from the timeless nature of consciousness, proven as not only theoretical, but actual. That is a first step at developing a REAL relationship with the living Universe if you want to as like an artist does - that

TOO! can be just as thought static in it's
orderly constructions for Atheists. (An
Atheist is still mostly a fool here however.)
Overall, for any, it's sorta simple: Life has
left YOU in charge of YOUR fate. Now, do well
to make something of this being as eternal Life
reaching for balance, as your body does, and
good cops do when bringing the bushmobsters to
Justice. By Israeli calling for more murder
against the innocent of your mind as racists
and bigots they are openly, is still shadows
of YOUR mind, YOUR WORLD.. get it, got it? God
is in genius to set Life as this, as like,
nowhere existing, but for as yourself within.
Will you speak out for the Justice denied
Humanity?, or not you? Atheists can be Just
too!, but generally lose it on not
understanding the intelligence of order is
way beyond what they dream up with
assumptions. All anyone has to do is ask
themselves, who do you mean "God"? Atheists
are ridiculous!, but, to each his or her
own, we are on a path here, believe what
you want to believe. This is not a faith
initiative I'm bringing by keeping this real,
I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder
Jews around the world for stolen money is
seriously evil as criminal. What do you think?
Let US have a open line discussion on this
indivisible matter of rights to all as equals
before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM"
we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

ï¿½Main actions: Israel targets hospitals, United
Nations premises, Press offices, theaters and densely
populated buildings in west of Gaza. Additionally,
people are being used as human shieldsï¿½

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed
Jews by breaking truces with a prison death camp,

cause look at all the free American Welfare money
we can steal through kicking-back AIPAC members in
Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line
calls on the war crime enemy propagandist,
The Chorus Radio Network. CJOB STEALS millions
from Manitoba each year, and refuses all calls
for honesty in governing. They are actual
CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal
who will be going to prison, is the only person
on Earth that has publicly okayed Israeli Nazi
to target murder Christian school girls. Canada,
join me in demanding Harper's Public trial as a
war criminal. Prison for Harper who took a
honorable soldier who stated he refused to commit
war crimes against innocent civilians, and placed
him without trial in prison. Without warrant for
arrest. Harper, the Nazi Appeaser, is a War
Criminal standing against the Queen.

"Or is this another, popular amerikan past time,
of, who cares for the facts, we are at war with
God and Christ now?" Die bushite die Christ always
says against lawless torturers as mass murdering
thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest
of the Judge and prosecutor for being openly
evil demons, as TRUE enemies to freedom in
America. But guess what? Americans will refuse
to even phone Alex Jones, or George Noory
to be hung up on. Just refuse as brain dead
zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic
of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?
Like multi-millionaire Ron Paul, who gave the

fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the faggot owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty
International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting
to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.
They will rob and kill US all my INNOCENT friends
as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

Google have attacked US again as Evil doers..
They have again destroyed my writing with war
criminal intent to deny these truths as men they
could never face me, because they are not. They
STEAL our voices.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil
as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unb
alanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the
days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews
like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the
eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was
137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying
freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the
free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for
senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

-

I Want My Bailout Money by Michael Adams the Health Ranger
http://www.youtube.com/watch?v=dnT21hmlT4o

Breakdown Dead Ahead
http://www.youtube.com/watch?v=yFCnVC2C8As&feature=related

-

Simple Common Sense for Mankind

/ / Israel has admitted HAMAS kept the cease
fire; and that Israel broke it, then unleashed a
total starvation blockade on Gaza followed by
flaming death from the sky aimed at schools,
hospitals, ambulances, and children, and you
dare call the people opposed to such barbarity
a "mob?" \ \

Zionists are evil people who pretend they
are honest, when lying directly to everyone.
Blitzer reports Hammas broke the truce, he
is lying to continue the murder of innocent
peoples. Understand: Israeli Nazi state they
will continue to murder our innocent Humanity
until the rockets stop falling on Jews. Yet,
they broke the truce, and murder Jews routinely
with reckless abandon. Jews from the Bible as
of "nigger" Ethiopian, are what the Zionist
hate when warring GOD for apartheid, apartheid
that is Humanity in Gaza. A zionist is a war
criminal who speaks not against the neocon,
but against Innocent Humanity as YOUR enemy.

Livni: Gaza truce would give Hamas legitimacy

As they always do because they are dishonorable
murderous nazi thieves of God as Just cause is.
I am, and YOU are, you just maybe don't know it
yet, or if ever. A zionist serves Satan to escape
the neocon terrorists from their ungodly crimes
on 911.

http://desertpeace.wordpress.com/2009/01/12/gazatoon-of-the-day-blaming-the-victim/

Ron Paul:
US Will Be Rightly Blamed for Israeli Killings
http://www.youtube.com/watch?v=6C756NOPyDA

Not the Nazi Israeli?

The guilty party are those who advocate these
mass murderers of innocent peoples with
deliberate lies, like from Blitzer. Blitzer
will be tried, and executed a war criminal
for stating Hamas broke the truce., Where,
only two minutes earlier, he learned, that
it was his Nazi partners. DEATH SENTENCE.

It was on TV. BUT SEE? Ron Paul, the Libertarian,
ain't going to be honest here. He'll lie cheat
and steal Humanity's voice for Justice - like
he did with OUR money. A typical Libertarian
like Alex Jones who wants to blame "socialists",
"Liberals", aka, all of innocent America.
Blitzer is war criminal, who makes his own
discussions. As is Ron. What an enemy to not
mention the truce. THINK: IT IS THE ISSUE. But
Ron plays the dummy to kill more with contempt
for Freedom. Ron Paul, the bigot, asked,
'should we be doing this'? SEE? it's not first
degree mass murders, no, according to Ron Paul,
it's argumentative that indiscriminate mass
killing is a good thing really. Remember,
Ron Paul does not support arresting those
who committed mass murder on 911 either.
Or those who STOLE TRILLIONS. Or lawless Bush,
the ACTUAL AntiChrist enemy of God. Ron Paul
will watch America die for a stolen dollar.
And Alex Jones will refuse all calls to label
him good guy like himself warring order
to our universe for it.

Israel is [NOT?] responsible for these childrens death
http://uk.youtube.com/watch?v=Y9PIZQqIep4&feature=email

Ron Paul "When we pick sides, we make it worse"

He also took our millions donated for freedom
fighting away for his family, but not our own
as dying innocent victims giving. Pick a side.

Remember: Sadistic authoritarian George Noory
is a very real DEMON of Satan, who again,
openly tells US, he wants to murder our
species as the innocent forsaken, and Alex
Jones doesn't hear a problem with that
either. Love the bushite blindly, and
they'll kill US for a dollar sukka.

Alex Jones is like the retarded brother we
can't help but love because we're human. He
is still retarded. And George Noory is still
seriously evil as a traitor to the cause of
Freedom in America. And Ron Paul is still
slamming Ron Paul.

Ron Paul "Israel can not act without
Washington's approval"

So, it is Ron's fault then by not mentioning
the truce?, or as that, innocent People are being
indiscriminately murdered in a death camp that
he figures is argumentative? that innocent
People are dying as targeted for mass genocide?
Or is it the Ron who states YOU are to blame
instead of himself for being there, not saying
anything? HEY RON! Can you hear me now!

-

Contribute to our rise for the popular will

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they STEAL OUR
CHARITY. What is it that YOU can't picture?

Hi. My name is King Johnny.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

-

/ / The targeting of civilians, whether
by Hamas or Israel, is a war crime. \ \

They are targeted by Obama who suggests
there is an argument to be made here. There
isn't. Nazi Israeli DEMON LIARS broke the
truce to kill Jews for money. They are godless
enemies of Humanity. So it isn't that we are
pro-Palestinian, it is that we are pro-Human.
Zionists DESERVE to die, before US, the innocent,
they target for murder for stolen cash gain.
Like Obama has promised to do for AIPAC. But
what about the rest of US 6 billion plus Obama?
Who is it of US innocent folks do you wish to
MURDER, or torture next as a Zionist war criminal
for Satan Obama? Torturing kids is popular in
Israel, tell US Obama, which American father will
have his children tortured, or murdered
sadistically by yourself as a whore for Nazi
Israeli? tell us, we're not waiting.

The Chosen Bad Example

Zionists Destroy Our Homes as Satanic
http://www.youtube.com/watch?v=mo2HW4T7wK4&feature=related

When I see the women and her child, left outside
while they sadistically destroy her meager gains,
I grow weary with ourselves for not speaking right.
Nazi Israeli are committed to deny US our God given
rights as Innocent persons to speak freely for Justice
realized. All because they STEAL our Lives for monetary
gain. It is our reality, give it or take it, YOU LOSE.

Then.. Hammurabi founded Civilization.

I go concerned for any hesitations of condemnation by
Obama. It's like, he's talking some jive about
how now he'll NOT let the words of Hamas reach
his ears. Being against war criminals, doesn't make
you pro-Hamas, necessarily, it means your against
war crimes to defend the lives of ourselves respected.
Remember: He told US earlier during the campaign that
he wouldn't fear speaking to anyone, Hamas especially,
because he was confident he could win the discussion on
Liberty, by principles that unite all free men. Now,
he has promised the FBI's Most Wanted AIPAC, he will
pretend to not hear any calls for fairness as all
parties united by common cause. Johnny Who? Where did
you go Obama? You were here, then.. pooof! you
vanished into the loving shackles of convicted/ing
criminals is a mass, "WE ARE TRAITORS TO JUST CAUSE"
organized war crime outfit, dedicated to deceiving the
Public by lying. I am not Lying. I'm not saying I hold
his associations as a measure of himself, I am concerned
with him stating, he will not hear our cries for Justice,
as then AIPAC cheered. I was as freaked out about it as
you maybe yourself now, believing it as possible. Check it
out for yourself, and wonder, just "who" is this person
they tell us they're are going to take for as dying fools?
I mean look at what happened to what's his name, when he
sided similarly the same in error as hugely criminal? Come
on be honest with us son, "Are you on drugs?". Maybe he's
just been stressed with all of everything he is heaped
to follow on, NOT to know by Blitzer, that Israeli broke
the truce to kill more Jews for money, and, also STEAL
innocent Peoples Homes while saying, "they are God's
Chosen". Yeah, chosen for, "The Bad Example", of how
Jews are left undefended by these grave robbing war
criminal nazi forces. As the King of Jews, I call for
Public War Crimes trials of the entire bushmob as
terrorists, and their supporters for lawless tyranny.

People are Coming to Town. Justice for All Coast
to Coast radio broadcasts all, until we have secured
the neocons in a prison cell awaiting the treason trials.

We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

Nazi Israeli STEAL Peoples Homes without
apology, as a function of their SATANIC
government, while collectively bombing the
INNOCENT victims who die because of it.

Gaza 2009 - Operation Cast Lead
http://www.youtube.com/watch?v=hFEiOfLUfzY

Again, they are Satanic here because
they THREAT to tell you, yeah, Zionists
are casting the leads for the real mass
murder scenes - Justice denied Humanity.
God doesn't exist to defend yourselves
from war criminals for Satan.

War crimes trials with public executions
will commence against ever GUILTY zionist
living to lie that Hamas broke the truce,
that Georgia was attacked without provocation,
(again, CNN are not 'accidentally' conning
US here). And trials for every last living
bushite bomber, rapist, and torturer -
death to the bushite, the true traitors who
war against freedom for America, traitors who
war Innocent Humanity for the escape of the
neocon zionists.

-

Both parties cheerlead loudly for Israel's war Against Humanity
http://www.salon.com/opinion/greenwald/2009/01/08/israel/index.html

Death sentences MUST be willed by Christians for war crimes.
Death to the bushite, death to the enemies of God and Man.

-

For the Great Truths. We Stand United

/ / This option is also regarded
as a non-runner as the US would certainly veto that
suggestion. \ \

No no no no. What you do is investigate who this
the "US" person is as the GUILTY party my friends.
The facts have spoken for ourselves without contention.
And while we're at it, try to figure who that "Army
says.." person is too, we need to know who these
traitors are who hide their names backing war crimes

to continue. The Enemies of Civility, they are
enemies of US all my innocent friends, enemies of US
all.

white phosphorus shells on Gaza
http://www.youtube.com/watch?v=HPY2M6IxDRA&feature=related
listen to the inflection of voice near the end of this..
the mind of a delinquent 7 or 8 year old.. This phenomenon
is pervasive, and illustrates some cognizant short coming in
Calcium or Zinc somethings. However, IT IS THERE. Normally, as
an Expert on Psychiatry, I dismiss the whole notion of
Psychiatry as I intimately know it as pure bunk wacky,
however the study of something here is needed if we're
ever going to convince ourselves dying indiscriminately
this way sucks. As the innocent for profit we pay for,
with lies sold without Public defense of mass murdering
demon traitors to the cause of US falling victims. God
says their Satanic, I just say they are criminals. War
criminals easily convicted for murdering our loved families.
They have no remorse for all that have been murdered
already.. Livini should be on her knees begging our
forgiveness, but she's not because she couldn't care
less for any Jews, especially those she don't have
imprisoned under threat in Israeli 'society'.

It's a 'bad' thing. nnNo.

Israel bomb attack Gaza Civils Palestinians 27/12/2008 launches
missile attacks on 27 Dec 08
http://www.youtube.com/watch?v=tQLDBujnwEE&feature=related

This was what Israeli did as a legitimate murder
scene, committed after the Nazi Israeli Jew HATERS
broke the truce. More dead Jews, more money to be
rich with. and we'll blame it on that God nonsense.
We must demand war crimes trials from Obama, and
everyone else down there who is appalled at this
indiscriminate mass murder continuing in your name.
We need arrests of Zionist infiltrators within
the American military who have been shipping
weapons to nazi Israeli to murder more defenseless
innocent People as targeted. Obama must demand
death sentences against these ungodly Zionist
vermins for treason, warranting execution for the
war crimes of accessory to mass murder, or genocide.
For the Great Truths. We Stand United.

-

Here on a Mission

/ / after dropping leaflets warning residents it was
about to "escalate" its offensive against Hamas. \ \

SEE! This is AFTER fire bombing the whole community.
Satanic evil enemies of Life. Who admit to targeting
any one who has ever so much as swept our streets,
warranting bombs dropped on their Block(s). SEE! they
are ENEMIES OF EVERYONE. EVERY LAST ONE OF US.
INCLUDING GOD.

Riddle me Dumb

Hamas Workers and/or Troops? Out hiding in the mountains
of Afghanistan you mean right? Satanic enemies of all
Humanity I tell you. The most evil nazi sons-of-bitches
who openly advocate tyranny and oppression through mass
murder of ourselves as the innocent left targeted
defenseless. Enemies of Jews everywhere, the Zionist
cares not for facts on who's Life it destroys for stolen
gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.
It's a prison death camp, brought about by Israeli STEALING
OUR Homes as ungodly thieves. Thieves who leave a Jew
to starve to death in a garbage dump because, it'll
attract more charitable aid The Zionist can use
elsewhere. It's not a Jewish thing, it's a criminal
matter. They STEAL innocent Peoples Homes in that
country. God's Country? God would will such criminal
offense? Which God? Not the God of Abraham, nor by
the teachings of Hillel, Christ, Mohammad, or
Confusion? So which absent God do you speak where WE
can't speak as ourselves openly for Just Cause?
Cat got your tongue? How come your not saying anything?
The Israeli Zionist ENEMY wants US ALL in slave
labor prison death camps silenced away that's why!

Israeli War Crimes
http://bothwell.typepad.com/whos_your_nanny/2009/01/israeli-war-crimes.html

Well, maybe I'm wronger on Ron Paul than I needed to.
Hey, don't you EVER forget, I am a man also. We need
to meet on common grounds, to demand the start of
formal arrests for the bushmob crimes of 911, Iraq,
Afghanistan, South Osettia, and Palestine, as a group
together united by agreement for this one cause, and
then... we can later argue about how your ideas are
better than mine because I actually know of which
your speaking.. Hey! you could call me Daddio if you
wanted! To the telephones we go.

-

Israeli are attacking prisoners held criminally
in their own Death Camps!! GET ALEX JONES ON THIS!

Hmm... why wouldn't Alex? to support his fictions
over Our Rights to Live Free perhaps? A Hero adapting
to the deaths scene?, or, a Bush whore committed to
enslaving Humanity, all so he can say, he told US so.
Big hero or big hero. Your NOT powerless to his vision
of complete control over information. He refuses 911
info, Iraq war info, Israeli info. All so he doesn't
have to look the fool, while Humanity dies with his
insults against our wills to make something better
of ourselves. Justice is what I will. Masturbate on
your own time Mr. Alex Jones.

If he states again about how he knows everything,
and is always right, and those that criticize
him on ANYTHING are delusional, it's going about to
make everyone further sick with this obscene take on
what life means as Alex takes it. If I truly state
two nickels make a dime, does that mean therefor
they make a quarter also? If I say so like Alex
would? He is an idiot. Truly. George Noory figures
Hamas broke the truce, and that the Mideast solution
is that Jews should be separated with special rights,
as oppressors over the freedom of every Palestinian
Prisoner, and what's Alex Jones gonna say about
his 'truth telling freedom fighter' George to actual
'lame ass evil nazi traitor' George?, to YOU about
how George is just trying to murder millions of
helpless people as an offer for the final solution?
We can expect Alex now to claim, Zionists should
have special rights over Jews, all to maintain
his FICTIONS on Noory being anything but the
monster to Humanity he is. Just because Noory
doesn't growl when talking about murdering all
children in around the age of 15, or against
soldiers who refuse criminal orders, does still
make him a true fascist nazi enemy laughing at
your murderers escaping to live freedom in
our dying forsaken worlds. The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demands arrests of the culprits
responsible for high treason against Johnny's
America. Now, who's with yourself. I am! I am!
I am!

Alex Jones doesn't know squat of Social Security, but
pretends he does, like Ron Paul does when speaking
of the Federal Reserve, Health Care, IMF, World Bank

blahblahblah.. I mean even the expert of experts
Alex has on near twice a week, EVERY WEEK, to talk
all about how the Illuminati are doing everything,(give
me your money now for whatever), DOESN'T SAY TO KNOW,
it was Chris Cox who changed Investment Banker rules,
to cover instead one tenth of WORLD INCOME loans,
to one twentieth. MORE THAN DOUBLING THE ENTIRE GLOBAL
MARKET FOR LOOTING WITH HIS SIGNATURE! (And. that isn't
even a fifth of the TRUE trillions dollar fraud story.!)
Now, granted, I wouldn't expect one tenth of one percent
of America to have even a distant clue of which I am
speaking, but importantly, Alex's expert of experts has
never mentioned it. EVER. Why? He don't give a fuck, but
how much money he can get you to give him for investing
in things that are un-important to our struggles, but
for the fact, he states, you'll get free money for
nothing!! OUR ACTUAL PROBLEM. It reminds me of those
Ron Paul dollars... where Ron'll fix everything, cause
we, as a private company, are going to make YOUR money
instead... holy fuk mon.. Talk about the kettle calling
American racists. Thank God the FBI stepped in. (The
answer unfortunately is not nowhere as easy as Alex
would blindly lead you) - again, so I guess it will be,
Americans were just too far gone as illiterate
chauvinists, who cared too little for your freedom as
themselves degenerating. Why? To battle tyranny they
knew not Justice wins the day, and blamed innocent
groups gathered wherever, instead of following the crime
scene leads at the real murder scenes - like was once
done on TV and at the Movies. But even that was too
far above their doped down heads, to raise their finger
to dial a phone number.

How about stating "A lawless bushite enemy wars America
as a traitor, to escape the neocons from the crimes of 911."

Then Alex states the head of GCN is giving out gold
at less than it's value as a special treat, every
second or third week. Below wholesale. Now, really
think this thru. Do you think Alex is trying to con
you here? you bet. That is the Gold Racket. Diamonds
are another thing - where I've personally seen,
about a decade ago, a huge press that makes Diamonds
out of coal. Swear to God it's true. Costs to make
diamonds are pennies to the thousands paid to Zionists
who live in Israel calling for the murder of all
innocent Peoples. Where is the rich Zionist, grave
robbing Jew hater to demand Justice for our times?
Where? Pressing coal into diamonds, while advocating
the murder of our entire Human species. THEY WANT
TO KILL GOD AS SATANIC ENEMIES OF LIFE. While I am

last known to Life's enemies as Jesus Christ, the Zionist's end every time. I'll have brought more Zionists to their rightful dooms, than any other, of any time, anywhere. I HATE Zionist bushite LIARS to death, all because I Love Humanity too much, to watch US die undefended as the innocent forsaken. They can change their evil ways, but till now, often not, benefiting off our suffering as war criminals who simply lie as demons to steal our Human values. Let's change this for our betterments. I mean the Halo is a dead give away..

The head of GCN has a son warring God to rape American women as lawless enemy in Iraq for the Neocon - again NEVER mentioned as something worth fighting against for Freedom in America - soldiers are suppose to REFUSE criminal orders - but not when Alex is at the mike. He will never mention the Bushmob doctoring the NIE to con America for death as exampled, because it doesn't fit his fictions, where all the bad guys escape because they are geniuses headed by secrets so powerful, nobody can ever know'em, except Alex. He tells us near every day, he knows everything already, and is never wrong, therefore you can't criticize him. Bullshit. It's like he wants to be wise like Johnny Gawd is, without doing anything like studying for a test where the teacher actually does know the issues. He told US today, the British came up with concentration camps, from the Indians - who spent all their lives murdering themselves. The British 'invented' false imprisonment? The British came up with the, Jews Killed Jesus? The British invented Pope Gregory VII? I suppose Alex has never heard of Ghettos. SEE? he just pulls shit out of his ass, and calls it like it's truly pure gold you'd wanna buy. Those, like your typical American have no clues, so they figure, Life must be sorta so that History is all one big Alex Jones NWO cartoon. What? that the NWO did 911, and everything else that use to instead, require criminal investigations to nab the actual evil doers? Alex Jones IS the NWO he tells US all we should be concerned about never stopping, like it was in the DARK AGES. Justice Alex, why is that hard for you as a "Conservative" to figure? Is it because you are cowardly in the face of true Liberty? Afraid that some People, on some Issues, ACTUALLY know a great deal better than you could even imagine presently? Don't like that do you?, where you don't rule this Universe as a lawless tyrant desperate to live in an illusion at the expense of

everyone else dying victims to censorship? Does he try
to find wise men or women? rarely. "Ron Paul [MUST]
leads our truth movement" - like, fuck off already
with the Ron Paul, The Truther, Bullshit Alex Jones.
1% is what YOU get on Social Security deposits - 1%.
And.. Bush stole 700 billion. 700. Billion. That's 700
BILLION. It's a "Trust" account. A "Trust" Account. It's
being held in "Trust" Alex. Ron Paul is asleep at the
wheel. As, so are the rest of all you other fools..
I want Justice, and I want it now for all the victims
of 911. Americans be damned, we want Justice, and We
want it Now.

In Texas, child rapists are given the right to
freely move about without fear that Texans will stand
as armed Men in defense of their very own offspring.
And Alex wants this for the rest of America. That some
how to own a gun, means an American would kill a cop
who beat a women near to death for pleasures that
he could never be Publicly arrested for, as a
sadistically evil nazi bushite fuck. Look, if YOU DID
kill that particular DEMON COP after the Chief
refused to arrest him, you couldn't possibly go to
jail in Johnny's America, because the truth would win
out in a fair verdict. And REAL cops would honor you
with great big, thank you. Nothing worse than a
cop (or bushite grunter) who believes the Law doesn't
apply to him while he drives drunk, tazers someone for
nothing, abuses Women, or kids, to sell drugs, or
kills good cops, who are good men. (Like mercs do in
Iraq officially for Rumsfeld's P2OG. Coming to an
American city near you!)

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

"Rice says it is 'hard' for Israel to spare civilians in Gaza"

We KNOW they are ONLY targeting innocent People,
the ungodly zionist Satanic enemies say so..

"Israel Rejected Hamas Cease-Fire Offer in December"

Livni has declared her country "is not going to show restraint"

"Her" country?

It's like she's admitting here, that they DO NOT
target the IDF's Hamas, but only our innocent lives
as a threat to LIFE and GOD. Remember: the Zionist

LIARS broke the truce.

THIS NAZI ZIONIST FUCK BREATHES THE AIR OF US
http://www.youtube.com/watch?v=lMxfEsooM5M&NR=1

/ / So, Hamas decides it's time to end the
cease fire and has begun shelling Israel again. \ \

This guy even sounds like the Satanic false
accusing enemy of God he is. Let US, as Humanity,
hunt these real devils down, try them, and have
them executed publicly for the benefit of God and
Man. Understand: this REAL DEMON knows he's lying,
no living man on Earth could spew the vile lies he
does to excuse indiscriminate mass murder, or starvation,
as this Zionist enemy of life sells to STEAL Your
HOME, your Family, YOUR LIFE. An open enemy of God
trying to STEAL the Title of Jew from Christ. EVIL
ENEMY OF LIFE. See, when a bushite dies, you served
Life well in defending their next INNOCENT target.
BILL HIM FOR STATING ISRAEL WAS STRUCK THOUSANDS OF
TIMES. BILL HIM FOR STATING HAMAS BROKE THE TRUCE.
BILL HIM FOR STATING bin Laden DID 911. BILL ANY
Zionist FOR THIS TREASONOUS LIE. Why God asks? Because
there isn't any evidence to support that Satanic lie.
According to the FBI. And according to God, Zionists
are not Jews, but of Satan as enemies of every life
form in this Galaxy, Hunt him down, and bill him
today for the love of God. You can 'hear' it in his
voice.. how he lies TO YOU as a DEMON of a Hatred
for Truth and Humanity. Facts, that are easily
available, are not what he works to mislead others,
others he hates, and wishes to murder for as ungodly
sadistic pleasures as YOUR enemy. Bill him under
American law for being pro-torture too while we're
at it. Death to bushite, death to the murdering
enemies of God's Love for Mankind, and enemies of
TRUE Justice for Americans. The fuking demon enemy
lies to you, as a con to STEAL your life, or just
as soon, the life of another innocent other. Now,
what are you going to do about it? Except his lies
as exceptable, as he tries his hardest blatantly
LYING to kill God and Justice in our Worlds? Not
in mine, but perhaps Yours.

' In Civil-Contempt Cases, Jail Time Can
Stretch On for Years for Americans, without Ever
seeing a day in Court. '

Where are the arrests?, then firing squads for
the Judges who 'judged' such criminality against
freedom for US, the Peoples in America?

' Where Did Taxpayer Money Go? Panel Slams Treasury
[FOR STILL REFUSING TO SAY] '

Where are the arrests?, they stole eight trillion
and counting.. And Congress 'slams' them for
disappearing OUR MONEY. Slams with what?, a,
don't do that again please butt sqeeze? It should
be massive slammer time, with a return of all
STOLEN monies.

' THEREFORE, those pro-Israel politicians in Congress
won their seats in part using stolen money. '

Where are the arrests? Amerikan bushite nazi grunts
are assisting in the mass murder of innocent Christians
in Palestine. War crimes demanding death sentences. It
isn't an argument that can be turned around. Nazi Israeli
STEAL Peoples Homes without apology, as a function of
their SATANIC government, while colectively bombing the
INNOCENT victims who die because of it. It's a prison
camp! they are denied water, food, shelter.. since four
or five truces over that they've broken, every one. These
are Satanic enemies, willing War Crimes against God,
a God NOT loved by zionist American Nazis. And a Son
as powerful as the four winds, ridiculed by Zionists,
and American know nothings, for the continued debasement
of YOUR soul worth here dying.

Israel Attacks Iran News Station

Why does not Iran DEMAND arrests, and death sentences
for these blatant war crimes against Humanity committed
by Amerikan Nazi Israeli Zionists? Along with the
perpetrators of 911? WHYWHYWHYWHY. Russians! Can you
help US out?

-

THE NAZIS SHELLED THE HOUSE WHERE THEY HELD
INNOCENT CHRISTIAN PRISONERS
http://uruknet.info/?p=m50596&hd=&size=1&l=e

Rise up for Justice American Christian, or
die innocent victim the Son of God does say.

-

Pictures of Alex Jones masturbating
"we were right about it all."

It's the NWO! The Illuminati! Not Bush, Cheney,
Neocons Gone Wild, or any of many other REAL
criminals, for the war criminals are just
puppets to his EVIL fictions. Forget about
Bush escaping.. Socialists who design traffic

lights, and Liberals who will to share fairly are Alex's enemy, because he's fearful the FACTS would escape his denouncements against truth tellers. George Noory, one of the most despicable individuals on the face of our great Earth - is exactly the kinda guy he wants returned to send his wannabe Patriots nowhere but to die. What about Justice America? The bushmob doctored the NIE. TREASON. There is video of iron flowing like water from the towers, seconds prior to the collapse. Alex ain't there to help US, for that is where TRUE Patriots fight for real Justice. When WE phone with indisputable facts, on Ron Paul the bush whore sell-out for example, he lies to all (GOD), then hangs up on US. Is that the kinda freedom you think the Founding Fathers had in mind to give Your rights to speak for Alex who blames anyone but the criminals directly responsible for your funeral? The private banker never covers our loans, so why give them trillions without questions offered without answered as, never mentioned by the guy who is 'right all along on everything under the sun', and.. he 'rules the Ocean of truth' too don't you know YOU have a steak going all rotten to hell here also? You'd think Alex would take our call just for the challenge on where we stand? I'm free!

He is not. And George Noory tells us openly, he's into killing innocent kids for profit. George's profit is that apparently, by murdering all children in around the age of 15, will stop them from getting a clue at anytime in the future, to take him out as an ENEMY of EVERYONE for censoring our cries for Justice. Why is it that Alex would invite obstructionist, Steve Quail, or Alan Watt, on to lead you nowhere while they jerk off, but where we gotta go to actually defend ourselves? Steve has been on with Noory more than a hundred times, and, we'd figure, Alex will soon be delving into the Alien questions also. Answerable by me in seconds, but ahhh.. like Noory, doesn't want the truth of such a subject uttered, just endless streams of illiterate bushite dumfuk losers sucking on each other. While they wrest from US the wonder; just why we can't stop criminals from robbing ourselves, while murdering our families? Alex wants to blame the unstoppable NWO, while I, want to blame those actually

responsible, like Bush and the proven treasonous,
Neocon terorist liars who are pro-torture.
With arrest warrants. All of them. I'll do it for
Reagan's, War Crimes Act, as an act of respect
for my Great America, that's isn't always been
dying dead wrong under the leaderships of
criminals.

Israel hits Gaza after UN truce resolution

/ / AP Israel and Hamas responded to a UN peace
demand by hammering away at each other with bombs \ \

The IDF's Hamas is hammering away with what at who?
Is the AP referring to the tin can rockets that
travel usually several miles, but in one case,
22 miles? To kill a Jew standing outside in his
yard, thinking on how he would defeat true evil in
his time? Tin can rockets that contain no explosive
charge? Have no mistake, if it hits you in the head,
your dead, but really, what do you think the odds
are on that? E=mcï¿½. Or is this another, amerikan
past time, of, who cares for the facts, we are at
war with God and Christ now? Joe is an American Zionist
"Plumber", who has amassed a multi-million dollar
fortune in the competitive industry by shit eating.
Every bushite death is a mercy given to God in defense
of all that is right and Just in this Universe. A
lawless bushite enemy wars America as a traitor to
escape the neocons from the crimes of 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Now or Never - One Peoples Rise to Power

J. Wizard "The fact that Bush gave you zero evidence can not be
denied"

http://cleveland.indymedia.org/uploads/2008/03/now-or-never.mp3
http://baltimore.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/03/now-or-never.mp3
http://newmexico.indymedia.org/uploads/2008/03/now-or-never.mp3
https://israel.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://www.indybay.org/uploads/2008/03/17/now-or-never.mp3
http://la.indymedia.org/uploads/2008/03/now-or-never.mp3
http://neworleans.media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://indymedia.nl/media/2008/03//50997.mp3
http://newjersey.indymedia.org/media/2008/03//20791.mp3
http://boston.indymedia.org/usermedia/audio/11/Now-or-Never.mp3
http://houston.indymedia.org/uploads/2008/02/now-or-never.mp3
http://imctj.espora.org/uploads/2008/02/now-or-never.mp3

http://argentina.indymedia.org/uploads/2008/03/now-or-never.mp3
http://canarias.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://istanbul.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indymedia.ie/attachments/feb2008/nowornever.mp3
http://media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://www.stlimc.org/usermedia/audio/10/now-or-never.mp3
http://peru.indymedia.org/uploads/2008/02/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indybay.org/uploads/2008/02/13/now-or-never.mp3
http://imctj.espora.org/uploads/2008/03/now-or-never.mp3

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994. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 07:05:32 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <%Mukl.9669$mN5.420@newsfe03.iad>
Source record: 17618

"Spin" <noemail@alone.invalid> wrote in message
news:iStkl.133$g31.106@nwrddc01.gnilink.net...
> What about contact cement? What i have states it is a
> "polychlor{o}prene-based contact cement.

The strongly polar chlorine atom in the polymer backbone or polychloroprene
will make your cement lossy at radio frequencies.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

995. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 07:24:11 UTC
From: dplatt@radagast.org
Message-ID: <r1ba66-4u6.ln1@radagast.org>
Source record: 17619

In article <1cn4p45i2tp8edo7qa6sfjhk5g632eg2aa@4ax.com>,
Jeff Liebermann <jeffl@cruzio.com> wrote:

>>Beware of the Aluminum foil and shields though. Once it gets wet there is
>>no stopping the internal corrosion and will generate broadband noise under
>>power. This includes both RG6 and 9913 and LMR types. They have been
>>banned from all commercial sites around here.
>
>Amazing. I can see it's possible to create a diode mixer junction
>with electrolytic action between the aluminum foil and copper braid.
>I've never seen broadband noise from coax cable. Usually the foil is
>mylar or polyester coated and the copper is tinned or silver plated to
>eliminate any points of contact. Most of the radio sites I've seen
>are stuffed LMR-400 and LMR-600. Heliax is better, but also far more
>expensive. Incidentally, if you want to generate RF noise and mixing,
>there's nothing better than an abraided Heliax outer jacket, with the
>copper shield touching the zinc galvanized tower.
>
>If intermod were really a problem with foil shielded coax, then the
>common residential CATV distribution system would have a big problem
>with intermod and mixes. While the buried coax is semi-rigid with a
>solid aluminum shield, the pole to house drops are usually quad
>shielded RG-6/u (sometimes with a messenger wire) with foil and braid
>shields.

I don't think those cases (commercial/repeater and CATV) are
comparable.

As I understand it (anecdotal report and discussions with other
repeater owners/builders), the problem with LMR-400 and similar cables
occurs when the cable is used in a duplex application, with RF
transmit power and the incoming receive signal being carried on the
same cable simultaneously.

Under these conditions, it doesn't take very much broadband noise
generation at all (from the cable, connectors, or nearby
metal-on-metal contacts) to cause a problem. The transmitter might be
pumping 50 volts RMS of power into the cable, while the receiver is
trying to pick off a signal of less than a microvolt at a frequency
only 600 kHz away. That's a rather critical environment which really
can't tolerate more than a tiny percentage of noise generation in the
cables, connectors, or duplexer.

I don't think there's any problem with using these sorts of cables in
commercial or amateur service in *simplex* applications... they can
handle transmitting, or receiving, just fine. It's only when you try

to do both, simultaneously, through the same cable. that the noise generation can become a problem.

The same can be true of some classes of antenna problems. The repeater system I help maintain developed a serious desensitization problem, due to internal corrosion/oxidation which occurred in the antenna after several years up in the weather. I doubt that the corrosion/oxidation effect would ever have been noticed if the antenna were in service as a normal (simplex) base antenna - it didn't affect the transmit SWR or the receive sensitivity at all,

I believe that CATV distribution is a rather easier situation for the cable to handle, since the signals being carried are all of a fairly similar and moderate power level. The downstream carrier levels delivered to the home seem to be around 1 millivolt... that's more than 60 dB higher than what a repeater's receiver has to be able to pick out when it's receiving a just-usable signal from the outer edge of its service area.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will boycott any company which has the gall to send me such ads!

996. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 07:53:59 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <g8-dnT7qM_cEHg_UnZ2dnUVZ_uednZ2d@posted.easystreetonline>
Source record: 17620

Dr. Barry L. Ornitz wrote:
> "Spin" <noemail@alone.invalid> wrote in message
> news:iStkl.133$g31.106@nwrddc01.gnilink.net...
>> What about contact cement? What i have states it is a
>> "polychlor{o}prene-based contact cement.
>
> The strongly polar chlorine atom in the polymer backbone or
> polychloroprene will make your cement lossy at radio frequencies.

And it would be terribly sticky and attract dirt and everything else.

Roy Lewallen, W7EL

997. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 09:34:00 UTC
From: Spin <noemail@alone.invalid>
Message-ID: <cYwkl.142$g31.43@nwrddc01.gnilink.net>
Source record: 17621

" And it would be terribly sticky and attract dirt and everything else"

I could always use it instead of a bug zapper.
!

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:g8-dnT7qM_cEHg_UnZ2dnUVZ_uednZ2d@posted.easystreetonline...
> Dr. Barry L. Ornitz wrote:
>> "Spin" <noemail@alone.invalid> wrote in message
>> news:iStkl.133$g31.106@nwrddc01.gnilink.net...
>>> What about contact cement? What i have states it is a
>>> "polychlor{o}prene-based contact cement.
>>
>> The strongly polar chlorine atom in the polymer backbone or
>> polychloroprene will make your cement lossy at radio frequencies.
>
>".
>
> Roy Lewallen, W7EL

998. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 12:04:48 UTC
From: "Derek R. Smith" <Derek@multnomah.demon.co.uk>
Message-ID: <DY5A1$Eg7rkJFwuP@multnomah.demon.co.uk>
Source record: 17622

Having read Roy's impressive measurement results, I would like to
interject a word of caution about the use of RTV's in electronic
applications.

As Roy states, many RTV sealants and adhesives use a curing process that
releases acetic acid (vinegar).
These should be used with care in electronic applications as the acetic
acid can, and does, cause corrosion on metallic surfaces in the vicinity
of the curing RTV.

Coils constructed with a medium to heavy gauge of wire are unlikely to
suffer from this but any inductors employing fine gauge wire can fail
due to corroded (broken) turns resulting from contact with the acetic
acid. The effect is not immediately apparent and can take months or
years before a problem arises.

Application of acid curing RTV should also be avoided to any component
in an assembled electronic device that has switch contacts or plug and
socket contacts in the immediate vicinity, for the same reason.

Electronic grade RTVs do not use an acid curing process and have been
developed to avoid the above problems.

Derek (ex Dow Corning employee)

In message <QMydnby0CPygwQzUnZ2dnUVZ_h2WnZ2d@posted.easystreetonline>,
Roy Lewallen <w7el@eznec.com> writes
>Dr. Barry L. Ornitz wrote:
>> . . .
>> Roy Lewallen, W7EL, dipped a number of coils in various materials
>>(RTV silicone, epoxy cement, Q-dope, hot melt adhesive, etc.) a while
>>back and then measured their losses with a Q-meter. If Roy can find
>>his old article, perhaps he can post it again.
>
>Great memory, Barry! It was posted on Dec. 16, 1998. A copy of the
>original posting follows. I didn't do any other experiments as I said I
>would, and I've gotten very little confirming or contradictory feedback.
>
>I recall you and some other folks posting some very good information
>about RTV, the general thrust of which was that there's a very wide
>range of formulations, so results might vary a lot from what I measured.
>
>---------------
>
>Spurred by recent comments and questions on this newsgroup, I made
>some inductors last weekend and measured them. Results follow.

>
> Toroidal Inductor Measurements
>
> Roy Lewallen, W7EL
> December, 1998
>
>
> Test Equipment
>
>Inductance: GR 1606-A impedance meter. Stray series impedance was
>removed by initial calibration. Stray shunt capacitance was separately
>measured and removed mathematically. Repeatability is within about +/-
>2%. No attempt was made to establish accuracy.
>
>Q: A home-made fixture was used. This is simply an air-variable
>capacitor which the inductor is connected across. Coupling into and
>out of the fixture with signal generator and oscilloscope is done with
>very small capacitors. The Q is calculated from the center frequency
>and 3 dB bandwidth. Use of frequency counter, built-in oscilloscope
>voltmeter, and switchable 3 dB pad allow repeatability of about +/-
>2%. Checks against a commercial Q meter show agreement within a few
>percent.
>
>All measurements were made at 10 MHz.
>
> Experiment 1: Coatings
>
>Several identical inductors were fabricated, then coated with various
>compounds. Inductance and Q were measured before and after coating.
>The inductors were wound on Micrometals T-50-6 cores (Carbonyl SF
>material, relative permeability 8.5) with 25 turns of #22 wire. This
>just fits on a single layer.
>
>Ind. # Uncoated Coated Coating
> L(uH) Q L(uH) Q
>
>1 2.54 281 2.54 284 None (control)
>2 2.52 286 2.54 218 Duco cement
>3 2.51 267 2.52 265 Standard RTV
>4 2.52 280
>5 2.54 279 2.55 255 Clear hot melt glue
>6 2.48 268 2.55 164 "Sealing tape"
>7 2.51 283 2.51 262 Paraffin
>8 2.55 262
>9 2.56 281 2.59 278 GE Silicone II
>10 2.50 283
>11 2.51 277
>
>Notes (by inductor number):
>

>Unless otherwise noted, coatings covered the entire core and winding,
>extending more than a wire diameter beyond the outside of the wire,
>and the center of the core was filled.
>
>Inductances within about 0.3 uH and Q's within less than about 5
>should be considered equal.
>
>1. Inductor Q was measured several times over several days to
>establish repeatability. Results were 280, 281, 283, 286, 284. (The
>apparent trend is interesting, but not conclusive.)
>2. Devcon Duco(R) Cement, allowed to dry for 24 hours. Although a
>generous coating was applied, the dried coating was less than a wire
>diameter in thickness, and the center of the core wasn't filled.
>3. Dap Dow Corning 100% Silicone Sealant, Clear, allowed to cure for
>24 hours. This is standard acetic-acid (vinegar) curing RTV.
>5. Stanley All Purpose GlueSticks, claimed set time 25-30 seconds.
>These are nearly clear, translucent white, and not tan or brown
>colored.
>6. This was some stuff I got surplus. It's a black, sticky, rubbery
>compound something like Coax Seal, but may be of entirely different
>composition. It's in the form of a thick tape. It's soluble in naphtha
>(and the solution dyes everything black it gets on), but acetone
>doesn't touch it.
>7. Household canning paraffin. (I don't know what it's called in
>Britain, but I'm not referring to the liquid -- kerosene to us -- you
>call paraffin. This is a common wax made from petroleum.)
>9. GE Silicone II Household Glue & Seal, Clear. This is a
>non-acetic-acid curing RTV. Allowed to cure for two days. Still just a
>little soft even after this much curing.
>11. This is the same core as #6. After the coated #6 was measured, the
>core was cleaned, the winding cut off, the core further cleaned, then
>a new winding put on.
>
>Comments:
>
>I had made some measurements years ago, but couldn't locate the
>results. I recall that standard RTV was poor (lowered Q noticeably)
>but that an industrial non-acetic-acid curing RTV was good. The
>results with standard RTV in this test were striking. Either a) the
>formulation of standard RTV has changed over the years, b) there are
>major differences among brands, or c) my memory is faulty.
>
>I recall from my earlier tests that epoxy was quite poor, but this has
>to be qualified after the experience with RTV. There's a huge number
>of different types of epoxy, and some may be much worse than others. I
>might test some in the future, but didn't during this test.
>
>I intend to test Q-dope in the future, but didn't have any on hand.
>
>Conclusions:

>
>Of the materials tested, both types of RTV stand out as having a
>negligible effect on inductor Q. Hot melt glue and paraffin have a
>small enough effect that they should be tolerable for many
>applications. Duco cement seriously degrades Q, even in a much thinner
>layer than the other coatings. The "sealing tape", tested out of
>curiosity, shows just how great a degradation can be caused by a poor
>coating.
>
>None of the coatings made much of a change in apparent inductance.
>This implies that the reduction in Q is due primarily to dielectric
>loss rather than simple increase in capacitance due to the material's
>dielectric constant.
>
>Note the difference in inductance and Q between inductors 6 and 11,
>which were wound on the same core. Apparently physical differences in
>the windings (perhaps such as tightness and conformance to the core,
>or uniformity of turn spacing) are a major contributor to differences
>between inductors. All the cores used in the test were ordered at the
>same time, so they may have come from the same batch and have
>relatively little variation. On the basis of just the comparison
>between numbers 6 and 11, it's entirely possible that most of the
>variation between inductors in this experiment is due to winding
>differences. The variation might be less if smaller wire with less
>stiffness is used.
>
> Experiment 2: Turn Spacing
>
>I believe it's well established that even a partial second layer can
>greatly reduce the Q of a toroidal inductor. But I had recently heard
>that optimum Q is achieved when the first layer isn't quite full, but
>rather has about a 30 degree gap in the winding, to reduce the
>capacitance between winding ends. To test this, I wound 23 turns of
>#22 wire on a T-50-6 core, and measured the Q with the turns pushed
>close together to make a gap (of about 30 degrees), and then spread to
>evenly distribute the turns completely around the core. Measured 10
>MHz Q's were 272 and 284, respectively. (Inductances were 2.21 and
>2.11 uH.) This one test doesn't by any means exhaust all the
>possibilities of core geometries, permeabilities, number of turns, and
>wire size, all of which may play a role. But if there's any advantage
>to leaving a gap, I believe it would be a small one. And in at least
>one case, it's slightly better not to.
>
>Another test was run using 10 turns of the same size wire on the same
>core. With the turns pushed together (the winding covering less than
>half the core), Q was 213, L was 841 nH. With the turns spread evenly
>around the core, Q was 209 but the L had dropped to 505 nH. I reasoned
>that a more fair comparison would be with a winding of about the same
>inductance as the original close-spaced one. This required 15 turns
>when distributed around the core, and resulted in a Q of 257 and L of

>924 uH. Here again, the Q is best when the turns are evenly
>distributed. Note that type 6 powdered iron has a very low relative
>permeability (8.5), so results might be different with
>higher-permeability materials. However, this is the material I usually
>use for high-Q inductors at HF, so I'm most interested in how it's
>affected.
>
> Experiment 3: "Regressive" Winding
>
>In the past, I've found what I thought was a moderate improvement in Q
>by "regressively" winding an inductor. To do this, you wind half the
>turns in the normal manner. Then you pass the wire through the hole,
>but to the opposite side of the inductor (with it ending up beside the
>first turn), then completing the winding from the vicinity of the
>first turn back toward the origination of the crossover. The result is
>an inductor with the two leads coming from points directly opposite
>each other. Stray capacitance is allegedly reduced by keeping the ends
>of the winding apart. An inductor wound in this manner with 25 turns
>of #22 wire measured Q = 285, L = 2.48 uH. This Q is on the high side,
>and the L on the low side, of the uncoated inductors measured in
>Experiment 1. I didn't try comparing with a standard winding on the
>same core, since the same number of turns wound on the same core at
>different times (e.g., inductors 6 and 11 in Experiment 1) were shown
>to come out differently from each other. My conclusion is that any Q
>improvement due to "regressive" winding is slight. Another claim for
>"regressive" winding is that it eliminates the "single turn" effect of
>toroidal inductors. A normal toroid will couple into its surroundings
>as though it consists of a single turn the size of the core. In the
>"regressively" wound inductor, there are two half-turns in opposite
>directions, so coupling should be reduced. I haven't tested this in
>any way, but it may be an argument in favor of the method. The
>relatively long wire of the crossover turn would contribute to
>coupling, however.
>
>I'll undertake more experiments and measurements as time permits. I'd
>love to hear from anyone who has made either supporting or
>contradictory quantitative measurements.
>
>Roy Lewallen, W7EL

--
Derek R. Smith.

999. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 13:46:51 UTC
From: dave <dave@dave.dave>
Message-ID: <btOdnai7Vv5XSw_UnZ2dnUVZ_szinZ2d@earthlink.com>
Source record: 17623

Roy Lewallen wrote:
> Dr. Barry L. Ornitz wrote:
>> "Spin" <noemail@alone.invalid> wrote in message
>> news:iStkl.133$g31.106@nwrddc01.gnilink.net...
>>> What about contact cement? What i have states it is a
>>> "polychlor{o}prene-based contact cement.
>>
>> The strongly polar chlorine atom in the polymer backbone or
>> polychloroprene will make your cement lossy at radio frequencies.
>
> And it would be terribly sticky and attract dirt and everything else.
>
> Roy Lewallen, W7EL

Did anybody mention wax?

1000. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 16:13:42 UTC
From: JB <nospam@goofball.net>
Message-ID: <WOCkl.165$ac6.3@nwrddc02.gnilink.net>
Source record: 17624

"Dave Platt" <dplatt@radagast.org> wrote in message
news:r1ba66-4u6.ln1@radagast.org...
> In article <1cn4p45i2tp8edo7qa6sfjhk5g632eg2aa@4ax.com>,
> Jeff Liebermann <jeffl@cruzio.com> wrote:
>
> >>Beware of the Aluminum foil and shields though. Once it gets wet there
is
> >>no stopping the internal corrosion and will generate broadband noise
under
> >>power. This includes both RG6 and 9913 and LMR types. They have been
> >>banned from all commercial sites around here.
> >
> >Amazing. I can see it's possible to create a diode mixer junction
> >with electrolytic action between the aluminum foil and copper braid.
> >I've never seen broadband noise from coax cable. Usually the foil is
> >mylar or polyester coated and the copper is tinned or silver plated to
> >eliminate any points of contact. Most of the radio sites I've seen
> >are stuffed LMR-400 and LMR-600. Heliax is better, but also far more
> >expensive. Incidentally, if you want to generate RF noise and mixing,
> >there's nothing better than an abraided Heliax outer jacket, with the
> >copper shield touching the zinc galvanized tower.
> >
> >If intermod were really a problem with foil shielded coax, then the
> >common residential CATV distribution system would have a big problem
> >with intermod and mixes. While the buried coax is semi-rigid with a
> >solid aluminum shield, the pole to house drops are usually quad
> >shielded RG-6/u (sometimes with a messenger wire) with foil and braid
> >shields.
>
> I don't think those cases (commercial/repeater and CATV) are
> comparable.
>
> As I understand it (anecdotal report and discussions with other
> repeater owners/builders), the problem with LMR-400 and similar cables
> occurs when the cable is used in a duplex application, with RF
> transmit power and the incoming receive signal being carried on the
> same cable simultaneously.
>
> Under these conditions, it doesn't take very much broadband noise
> generation at all (from the cable, connectors, or nearby
> metal-on-metal contacts) to cause a problem. The transmitter might be
> pumping 50 volts RMS of power into the cable, while the receiver is
> trying to pick off a signal of less than a microvolt at a frequency
> only 600 kHz away. That's a rather critical environment which really

> can't tolerate more than a tiny percentage of noise generation in the
> cables, connectors, or duplexer.
>
> I don't think there's any problem with using these sorts of cables in
> commercial or amateur service in *simplex* applications... they can
> handle transmitting, or receiving, just fine. It's only when you try
> to do both, simultaneously, through the same cable. that the noise
> generation can become a problem.
>
> The same can be true of some classes of antenna problems. The
> repeater system I help maintain developed a serious desensitization
> problem, due to internal corrosion/oxidation which occurred in the
> antenna after several years up in the weather. I doubt that the
> corrosion/oxidation effect would ever have been noticed if the antenna
> were in service as a normal (simplex) base antenna - it didn't affect
> the transmit SWR or the receive sensitivity at all,
>
> I believe that CATV distribution is a rather easier situation for the
> cable to handle, since the signals being carried are all of a fairly
> similar and moderate power level. The downstream carrier levels
> delivered to the home seem to be around 1 millivolt... that's more
> than 60 dB higher than what a repeater's receiver has to be able to
> pick out when it's receiving a just-usable signal from the outer edge
> of its service area.
>
You got it. Only hardline is authorized on the tower. Hardline doesn't have the problem because it doesn't have a braid to flex in the wind. Braid is less than satisfactory for RF Ground and lightning protection too. Copper ribbons and sheets are preferred for grounds, but regular large copper cable can be substituted in some cases. On a repeater system, corroded or old braided coax hoses your own receiver and others nearby on the tower or the next building with noise. Especially in the wind. You won't hear that on simplex because the receiver is muted when you transmit.

I don't know if you have seen CATV hardline with a tank strapped to the utility pole. That keeps water out by pressurizing the hardline. CATV systems DO have problems with corrosion all the time. With all that cable though, the cost to get it up and running is enormous, and they would rather be complaint driven instead. They also use circulators so that the stuff people do in their house doesn't feed back into the system and screw all the other customers up.

The 2m people, most business PLMR and the Cops don't get it so they complain about jammers so you get irate service calls. But you can't talk to them because if you talk technical, they cover their ears, scream LALA LALA!! accuse you of lying, and they won't pay for the cure anyway (remember, if you have to think about the answer, you're lying). We do use LMR and 9913 for cheap simplex ground level base station installs because it is cheaper and easier to route. Don't use it around your rotor though. The foil will tear up.

1001. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 16:23:24 UTC
From: kb9rqz <kb9rqz@punce.net>
Message-ID: <4992fb82$0$3336$6e1ede2f@read.cnntp.org>
Source record: 17629
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.antenna

```
"Ron" <apositiveplace@netscape.net> wrote in message
news:4Rgkl.6008$5B.4382@newsfe20.iad...
> dloydlavies@gmail.com wrote:
>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>> <assemblywizard@gmail.com> wrote:
>>
>>> K4YZ wrote:
>>>> Nope.
>>>>
>>>> The IP Address and servers are complete proof that I do NOT share
>>>> any annonymous character's "address".
>>>>
>>>> Sounds like Lennie, to me....
>>>>
>>>> Steve, K4YZ
>>>>
>>> To anyone with even an elementary understanding of anonymous proxies,
>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>> IP address and header details is simplistic, indeed, with little time
>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>
>>> You waste my time. Worse, you think us all idiots here. You remind me
>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>> with members of little or no technical knowledge and then call in
>>> "expert witnesses" and propose arguments of technical details to boggle
>>> their minds.
>>>
>>> You have only proven that you, yourself are either ignorant to such
>>> technical details, or else you are indeed street smart, I favor the
>>> latter in this case (however, if you in the dark about such things, 15
>>> minutes on google will enlighten you.)
>>>
>>> JS
>
> Are you about done spamming this stuff? Can we please get back to the
> discussions that these news groups were designed for? Please?
>
> Ron
>
with teh punce gotcha he wonder why i simple but the war is treching things
quuit e abit
```

1002. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 16:25:57 UTC
From: k3vr@hotmail.com
Message-ID: <j0v5p4dm4mecslaa32ri5mqdo6g3i47lqt@4ax.com>
Source record: 17625
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy
Body handling: HTML body converted to readable text

On Sat, 7 Feb 2009 21:57:29 -0800 (PST), "w4nti@live.com"
wrote:

>On Feb 7, 2:02ï¿½pm, Pink Pimpernel wrote:
>> The substitute U.P. hot spot, Applebee's Grill and Bar, is tonite's "in"
>> place and all kewl pple know it. ï¿½For a good time watching local
>> thespians and magickal pple, come to
>>
>> Applebee's Grill & Bar
>> 980 Razorback Dr
>> Houghton, MI 49931
>> (906) 482-2800
>>
>> Be sure to bring yer cents of humor with you.
>>
>> Instead of karaoke, Applebee's has a "shoot your own video" contest that
>> will be an exciting substitute. ï¿½Come to Applebee's, get drunk, disrobe,
>> and make a sex video of yourself suitable for the internet.
>>
>> http://www.applebees.com/realvideos/default.aspx
>>
>> It's what all kewl Houghton pple do.
>>
>> Besides that, Applebee's has set up a temporary enema room with its own
>> beer keg and floor drain so that you can enjoy beer yer own way. ï¿½This
>> is a feature which normally can be found only in the Greenlight Lounge,
>> but this weekend Applebee's is making an exception.
>>
>> We have fun, fun, fun, fun, fun ever Saturday night, so put on yer
>> leotards or yer spandex and get to stepping. ï¿½Be thier or be square.
>
>get a life

1003. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 16:26:01 UTC
From: k3vr@hotmail.com
Message-ID: <o0v5p4h40oi9hjmudrn0amb6j4v25ndll6@4ax.com>
Source record: 17626
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sat, 7 Feb 2009 22:02:06 -0800 (PST), "w4nti@live.com"
<w4nti@live.com> wrote:

>On Feb 6, 7:12ï¿½pm, UberJacker <nohij...@houston-hunks.com> wrote:
>> On Feb 6, 11:14 am, "Mark du U.P." <M...@chicken.poop> wrote:
>>
>get a life

1004. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 16:26:06 UTC
From: k3vr@hotmail.com
Message-ID: <s0v5p450mu33o72vdngqqavtms0t0eb3p9@4ax.com>
Source record: 17627
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sun, 08 Feb 2009 01:14:03 -0500, dloydlavies@gmail.com wrote:

>On Sat, 7 Feb 2009 19:02:09 +0000 (UTC), Pink Pimpernel <Pink@is.in>
>wrote:
>
>>The substitute U.P. hot spot, Applebee's Grill and Bar, is tonite's "in"
>>place and all kewl pple know it. For a good time watching local
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>you are pretty sick

1005. Re: get kelp a

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 16:27:14 UTC
From: k3vr@hotmail.com
Message-ID: <03v5p4163noknjmut2lis4a9h5a66nfv4r@4ax.com>
Source record: 17628
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy
Body handling: HTML body converted to readable text

On Tue, 10 Feb 2009 15:15:57 -0500, k3vr@hotmail.com wrote:

>On Sat, 7 Feb 2009 21:57:29 -0800 (PST), "w4nti@live.com"
> wrote:
>
>>On Feb 7, 2:02ï¿½pm, Pink Pimpernel wrote:
>>> The substitute U.P. hot spot, Applebee's Grill and Bar, is tonite's "in"
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>>
>>get a life

1006. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 16:32:47 UTC
From: k3vr@hotmail.com
Message-ID: <ddv5p4lkaijdq5k20caftgqd38h7qf9b25@4ax.com>
Source record: 17630
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

1007. LEO receiving antennas was Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 17:07:23 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gmv0ka$n33$1@news.jpl.nasa.gov>
Source record: 17633

Jerry wrote:

> Hi Chris
>
> The Lindenblad antenna is fed to produce a null toward zenith. The
> Lindenblad antenna as defined by Brown and Woodward in the mid 1940s for TV
> transmission, has an omniazimuth radiation pattern.
> The DCA has no zenith null.
>
> If you consider an antenna with an overhead null to be the same as an
> antenna with no null to be the same, I have no expectation that you and I
> will agree.
>
> The DCA offers little advantage over a Quad Helix when radiation pattern
> is considered.
> The DCA is slightly more sensitive toward the horizon than the Quad Helix.
> .
> The bandwidth of a DCA is far wider than a Quad helix.
> The DCA is very insensitive to dimensional errors when built by an
> amateur. The Quad Helix is extreemely demanding of prescission of
> construction.
>
> The original subject of this thread was related to building an antenna for
> reception of Low Earth Orbiting satellites. I figured the OP could
> appreciate knowing that a DCA will perform better than a Lindenblad and
> needs no series matching transformors.
>
> Jerry KD6JDJ
>
>

Just how good does this antenna have to be. It's not like it's being
used as a probe to measure randomly polarized signals, where AR=1 is
really important.

Quad helix antennas have a reputation for being demanding, but that's
where the performance requirements are demanding. Considering that quad
helix antennas are made by the millions for GPS and by the thousands for
WxSat use on boats, they aren't all that picky, because conventional
mass production tolerances are "good enough".

Relax the performance requirements and the helix is no more or less
difficult than a turnstile or Lindenblad or CP patch. Before the advent
of modern modeling tools, *designing* a quad helix was a huge chore,
especially if you didn't want to use a quad hybrid in the feed network,

but wanted to do the "one a bit long, one a bit short" to get the 90 degrees.

But, returning to the original question, why not a turnstile (crossed dipoles fed 90 degrees out of phase)? For LEO satellites, you don't really want a hemispherical pattern anyway. You want something with more gain at the horizon where the slant range is much greater (thousands of km) than at zenith (where the range is hundreds of km).

And, for that matter CP is probably not worth worrying about. The loss from a perfect CP to a perfect linear is 3dB. If you're in a situation where 3dB is going to kill you, you've got other problems to worry about.

Where CP is really, really nice is when you want to kill multipath from close by reflectors. Or in deep space applications, where you don't know the linear orientation of the transmitter/receiver (and you also ARE worried about eke'ing out the last tenth or hundredth of a dB of performance)

Jim, w6rmk

1008. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 17:28:36 UTC
From: dplatt@radagast.org
Message-ID: <4feb66-5ph.ln1@radagast.org>
Source record: 17635

In article <WOCkl.165$ac6.3@nwrddc02.gnilink.net>,
JB <nospam@goofball.net> wrote:

>I don't know if you have seen CATV hardline with a tank strapped to the
>utility pole. That keeps water out by pressurizing the hardline.

Shameful. Just *imagine* the effect of all that nitrogen leaking out
into the atmosphere! What won't those cable guys try go get away with
next? (>>grin<<)

> CATV
>systems DO have problems with corrosion all the time. With all that cable
>though, the cost to get it up and running is enormous, and they would rather
>be complaint driven instead. They also use circulators so that the stuff
>people do in their house doesn't feed back into the system and screw all the
>other customers up.
>
>The 2m people, most business PLMR and the Cops don't get it so they complain
>about jammers so you get irate service calls. But you can't talk to them
>because if you talk technical, they cover their ears, scream LALA LALA!!
>accuse you of lying, and they won't pay for the cure anyway (remember, if
>you have to think about the answer, you're lying).

Heh. You haven't met the senior hardware guy (Scott N6NXI) on our
2M/220/440 repeater project. He's the staunchest opponent of using
foil/braid cable on a repeater that you're ever likely to meet, and
insisted on all of our stuff being done to solid commercial-grade
standards (circulators, bandpass filters on the auxiliary radios,
etc.). Most of the cables inside the rack are custom-cut/routed .25"
heliax.

It was a lot of work (and more money) but it has paid off in
reliability. We've got 3 repeaters and their duplexers in a single
rack, right next to one another, and no crosstalk or intermod or
desense problems... and we share the site with a powerful
paging-service transmitter and a bunch of public-service radio gear.

> We do use LMR and 9913
>for cheap simplex ground level base station installs because it is cheaper
>and easier to route. Don't use it around your rotor though. The foil will
>tear up.

Good point - thanks - I'll remember to use a braid-cable jumper when I
put up a hexbeam later this year.

--
Dave Platt <dplatt@radagast.org> AE6EO

Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1009. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 17:40:17 UTC
From: Bob Dixon <dixon.8@osu.edu>
Message-ID: <dixon.8-4BD6F8.12401711022009@charm.magnus.acs.ohio-state.edu>
Source record: 17631

I have seen hams use silicon sealant to fill a UHF connector before screwing it together. The idea is to keep out water. (The connection is also taped or sealed with Coax seal). Is this a good idea?

Bob W8ERD

1010. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 17:48:53 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gmv325$nc4m$1@tr22n12.aset.psu.edu>
Source record: 17632

JB wrote:

> Actually made good working ladder line from bell wire from the Science dept.
> and plastic spoons from the lunchroom for the school radio club station.
> The ugliest, goofiest looking projects always seem to work the best.

Sweet! Any pictures?

- 73 de Mike N3LI -

1011. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 18:06:47 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gmv43o$nc4q$1@tr22n12.aset.psu.edu>
Source record: 17634

JB wrote:

> I don't know if you have seen CATV hardline with a tank strapped to the
> utility pole. That keeps water out by pressurizing the hardline. CATV
> systems DO have problems with corrosion all the time. With all that cable
> though, the cost to get it up and running is enormous, and they would rather
> be complaint driven instead. They also use circulators so that the stuff
> people do in their house doesn't feed back into the system and screw all the
> other customers up.

Ever open up a cable amp that has had leaky (water type leaky) coax
dripping into it? Yikes, they usually keep working for a while, with all
kinds of electrolyzing going on. It's a pretty sad sight.

- 73 de Mike N3LI -

1012. The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 19:03:31 UTC
From: Bill Wright <insertmybusinessname@f2s.com>
Message-ID: <sYednZwK8JuZvA7UnZ2dnUVZ8jWWnZ2d@pipex.net>
Source record: 17636
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced

Hello everyone,

Bill Wright here. Please have the patience

to read this! You could really help us achieve something worthwhile.

The digital rip-off: your help needed

There's a lot of public confusion about the switch to digital TV, and

many elderly and vulnerable people are getting fleeced as a result. The

official information campaign is trying hard to make sure that people

won't be left without TV when the analogue broadcasts finish, but we're

not convinced the right information is reaching those who need it most.

As a result some people are panicking and making rash buying decisions.

Of course there's always someone ready and waiting to take advantage

of people's confusion and make a killing. There have already been many

instances of people (mainly elderly) spending many hundreds of pounds

on unnecessary aerials or new TV sets.

In areas where analogue was switched off last year the rip-offs became

an epidemic and a lot of people subscribed to pay TV (£500 per year?), under

the impression that they had to do this or they would lose the BBC and

ITV channels.

A group of us have set up a website that attempts to correct some of the

misunderstandings and present the essential information in a way which

is simple and easy to understand. The website is totally non-commercial

and is designed so that people with internet access can print off the

information and hand it to those that might benefit from it.

After analogue switch off the majority of people will find that their

present aerial will work fine, even though it might not do so in the

lead-up period. This simple fact is being ignored. Our message is partly 'Don't spend money until you are certain you need to' and this contradicts the official message, which is 'you must act now'. It seems that a certain amount of rip-off has been deemed acceptable.

The main broadcast media are unlikely to address the rip-off problem seriously because this could detract from the 'you must be ready for digital' message. Of course we accept that people do need to be ready for analogue switch-off, but the official line is all about being ready, with little or nothing about avoiding rip-offs or unnecessary expense.

So, having set up the site, the problem now is publicising it. The task of spreading the word is enormous, and frankly we just can't do it alone. But if enough of you help us we could really achieve something.

Newsgroups like this one have readers all over the UK, and that is our strength.

Firstly, would you please send the letter (below) to the letters page of all your local newspapers? It's easy to do this by email. (But if analogue has already finished in your area it's probably too late.)

If you know of any local organisations in your area that could pass on the information to vulnerable groups such as the elderly or the adult mentally handicapped, please pass on this message, with the website address. What about the local Age Concern, Help the Aged, Derby and Joan, Townswomen's Guild, WI, and even the bowling club? What about the library or your place of worship? Do you have any contacts in Social Services or other relevant council departments?

Please email the message to your local radio station (including community stations). It could work to send the message direct to a presenter who does a 'topical talk' slot in between the music.

Please go through your email address list and send this message to anyone you know who is in a position to pass it on to where it's needed.

Finally, do you know anyone personally that is a rip-off risk? If so, please go

to the site and print off the information and give it to them.

The website address is

http://www.paras.org.uk/01-intro.shtml

Could you email Bill at

wrightsaerials (first part)

the 'at' symbol (second part)

f2s (third part)

dot com (last part)

to let us know which organisations you have contacted?

Cheers,

Mike Brown

Mark Carver

Bill Wright

LETTER TO EDITORS, RADIO STATIONS, ETC (areas that still have analogue)

The digital rip-off: your help needed

Some time soon our analogue TV signals will disappear forever. The official information campaign is trying hard to make sure that people won't be left without TV, but unfortunately this can come across in a slightly panicky way and it is causing some people to make rash decisions. Elderly people, especially those who are housebound, are very reliant on television and many are really scared that they will be cut off. Of course, there's always someone ready to exploit these fears. The result is that a lot of money is being wasted by those who can least afford it. There have already been many instances of people (mainly elderly) spending many hundreds of pounds on unnecessary aerials or new TV sets.

Crooked aerial installers are having a field day, and unscrupulous TV salesmen are telling people that they have to buy an expensive new set or they will have no reception. A lot of people have already subscribed unwillingly to pay TV (£500 per year?), under the impression that they have to do this or they will lose the BBC and ITV channels.

There is now a website - http://www.paras.org.uk/01-intro.shtml - that tries to cut though all

the guff. It's been set up by trade insiders who are sickened by the

rip-offs. Its totally non-commercial and the idea is that people with

internet access can print pages and hand them to those that might need

them. It would be great if your readers would take a look at the site

and pass on the information to any vulnerable people they know.

Yours faithfully,

Xxxxxxxxxx

This message posted by Bill Wright

1013. Re: LEO receiving antennas was Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 20:05:41 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <pcGkl.186$ac6.100@nwrddc02.gnilink.net>
Source record: 17637

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gmv0ka$n33$1@news.jpl.nasa.gov...
> Jerry wrote:
>
>> Hi Chris
>>
>> The Lindenblad antenna is fed to produce a null toward zenith. The
>> Lindenblad antenna as defined by Brown and Woodward in the mid 1940s for
>> TV transmission, has an omniazimuth radiation pattern.
>> The DCA has no zenith null.
>>
>> If you consider an antenna with an overhead null to be the same as an
>> antenna with no null to be the same, I have no expectation that you and I
>> will agree.
>>
>> The DCA offers little advantage over a Quad Helix when radiation
>> pattern is considered.
>> The DCA is slightly more sensitive toward the horizon than the Quad
>> Helix. .
>> The bandwidth of a DCA is far wider than a Quad helix.
>> The DCA is very insensitive to dimensional errors when built by an
>> amateur. The Quad Helix is extreemely demanding of prescission of
>> construction.
>>
>> The original subject of this thread was related to building an antenna
>> for reception of Low Earth Orbiting satellites. I figured the OP could
>> appreciate knowing that a DCA will perform better than a Lindenblad and
>> needs no series matching transformors.
>>
>> Jerry KD6JDJ
>
> Just how good does this antenna have to be. It's not like it's being used
> as a probe to measure randomly polarized signals, where AR=1 is really
> important.
>
> Quad helix antennas have a reputation for being demanding, but that's
> where the performance requirements are demanding. Considering that quad
> helix antennas are made by the millions for GPS and by the thousands for
> WxSat use on boats, they aren't all that picky, because conventional mass
> production tolerances are "good enough".
>
> Relax the performance requirements and the helix is no more or less
> difficult than a turnstile or Lindenblad or CP patch. Before the advent
> of modern modeling tools, *designing* a quad helix was a huge chore,

> especially if you didn't want to use a quad hybrid in the feed network,
> but wanted to do the "one a bit long, one a bit short" to get the 90
> degrees.
>
> But, returning to the original question, why not a turnstile (crossed
> dipoles fed 90 degrees out of phase)? For LEO satellites, you don't
> really want a hemispherical pattern anyway. You want something with more
> gain at the horizon where the slant range is much greater (thousands of
> km) than at zenith (where the range is hundreds of km).
>
> And, for that matter CP is probably not worth worrying about. The loss
> from a perfect CP to a perfect linear is 3dB. If you're in a situation
> where 3dB is going to kill you, you've got other problems to worry about.
>
> Where CP is really, really nice is when you want to kill multipath from
> close by reflectors. Or in deep space applications, where you don't know
> the linear orientation of the transmitter/receiver (and you also ARE
> worried about eke'ing out the last tenth or hundredth of a dB of
> performance)
>
>
> Jim, w6rmk

Hi Jim

It isnt clear to me that you read Howard Kowall's original post. He intends to build his own antenna to communicate with low earth orbiting satellites. I have information that will allow Howard to design and build his own antenna that performs better than the design he chose (Lindenblad). Do you disagree that a DCA will perform better than a Lindenblad?

I have read many of your post and recognize that you are a smart guy with lots of information about antennas. Thats why I wonder why you'd write something as stupid as " And, for that matter CP is probably not worth worrying about". You know that 3dB *is* normally something to try to achieve while building an antenna. The reason you write that the circular polarization is minimally significant seems to be that you are attempting to minimize the value of the DCA. I wonder if you have any facts or data, measured or calculated, to demonstrate that you know of any antenna that performs better than a DCA for ground based reception from LEOs

I agree with you that a Turnstile is a good antenna for LEO satellite communication from Earth. But, I also claim that a DCA will perform better than a Turnstile. Do you disagree?

Can you tell me more about why you wrote "For LEO satellites, you don't
> really want a hemispherical pattern anyway. You want something with more
> gain at the horizon where the slant range is much greater (thousands of
> km) than at zenith (where the range is hundreds of km). That is precisely
> what I tried to address in the QST article. That is precisely why the
> DCA performs better than all others. Besides, the DCA is relatively easy
> to build , unlike the Quad helix.

Again, do you know of any antenna design that performs better than a DCA for communication with LEOs from earth and doesnt require pointing?

Jerry KD6JDJ

1014. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 20:50:31 UTC
From: JB <nospam@goofball.net>
Message-ID: <rSGkl.224$g31.69@nwrddc01.gnilink.net>
Source record: 17638

"Bob Dixon" <dixon.8@osu.edu> wrote in message
news:dixon.8-4BD6F8.12401711022009@charm.magnus.acs.ohio-state.edu...
> I have seen hams use silicon sealant to fill a UHF connector before
> screwing it together. The idea is to keep out water. (The connection is
> also taped or sealed with Coax seal). Is this a good idea?
>
> Bob W8ERD

NO!

The silicone will impair the connection, the dielectric, makes a fumbling mess and usually causes the tape to come off. Just tightly wrap with electrical tape and tie off the loose end. It will outlast the coax. Unless the antenna itself is prone to leak into the connector.

1015. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 21:01:06 UTC
From: "Derek R. Smith" <Derek@multnomah.demon.co.uk>
Message-ID: <dhVX7gBSyzkJFwPJ@multnomah.demon.co.uk>
Source record: 17639

Probably not a good idea.

Silicone Grease would be much less harmful to the connector and be much
easier to undo, when the time comes.

Derek

In message
<dixon.8-4BD6F8.12401711022009@charm.magnus.acs.ohio-state.edu>, Bob
Dixon <dixon.8@osu.edu> writes
>I have seen hams use silicon sealant to fill a UHF connector before
>screwing it together. The idea is to keep out water. (The connection is
>also taped or sealed with Coax seal). Is this a good idea?
>
>Bob W8ERD

--
Derek R. Smith.

1016. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 21:05:29 UTC
From: JB <nospam@goofball.net>
Message-ID: <t4Hkl.227$g31.209@nwrddc01.gnilink.net>
Source record: 17640

> >The 2m people, most business PLMR and the Cops don't get it so they
complain
> >about jammers so you get irate service calls. But you can't talk to them
> >because if you talk technical, they cover their ears, scream LALA LALA!!
> >accuse you of lying, and they won't pay for the cure anyway (remember, if
> >you have to think about the answer, you're lying).
>
> Heh. You haven't met the senior hardware guy (Scott N6NXI) on our
> 2M/220/440 repeater project. He's the staunchest opponent of using
> foil/braid cable on a repeater that you're ever likely to meet, and
> insisted on all of our stuff being done to solid commercial-grade
> standards (circulators, bandpass filters on the auxiliary radios,
> etc.). Most of the cables inside the rack are custom-cut/routed .25"
> heliax.
>
> It was a lot of work (and more money) but it has paid off in
> reliability. We've got 3 repeaters and their duplexers in a single
> rack, right next to one another, and no crosstalk or intermod or
> desense problems... and we share the site with a powerful
> paging-service transmitter and a bunch of public-service radio gear.
>
Say R56 and it usually covers everything that matters. Check this out. Use
to take care of a bunch of UHF Micors here:

http://eecue.com/images_archive/eecue-images-30273-Mt__Wilson_Antennas.html
(no i didn't take the picture)

1017. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 21:13:26 UTC
From: JB <nospam@goofball.net>
Message-ID: <WbHkl.228$g31.85@nwrddc01.gnilink.net>
Source record: 17641

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gmv43o$nc4q$1@tr22n12.aset.psu.edu...
> JB wrote:
>
> > I don't know if you have seen CATV hardline with a tank strapped to the
> > utility pole. That keeps water out by pressurizing the hardline. CATV
> > systems DO have problems with corrosion all the time. With all that
cable
> > though, the cost to get it up and running is enormous, and they would
rather
> > be complaint driven instead. They also use circulators so that the
stuff
> > people do in their house doesn't feed back into the system and screw all
the
> > other customers up.
>
> Ever open up a cable amp that has had leaky (water type leaky) coax
> dripping into it? Yikes, they usually keep working for a while, with all
> kinds of electrolyzing going on. It's a pretty sad sight.
>
>
> - 73 de Mike N3LI -

I've seen boxes of them. I wish I had pictures of the Micor mobile that was
parked in a supervisors car in the middle of a river for 3 days. The
battery went dead making green slime. The only money they had in the budget
was for repair, so we bid them to replace every board. The Mastr Exec had a
Relay and worked fine after drying it out. Things like that are hard to
explain.

1018. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 21:17:19 UTC
From: JB <nospam@goofball.net>
Message-ID: <zfHkl.231$g31.51@nwrddc01.gnilink.net>
Source record: 17642

> Say R56 and it usually covers everything that matters. Check this out.
Use
> to take care of a bunch of UHF Micors here:
>
>
http://eecue.com/images_archive/eecue-images-30273-Mt__Wilson_Antennas.html
> (no i didn't take the picture)
>
Much better photos here:
http://www.fybush.com/sites/2005/site-051216.html

1019. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-11 22:33:38 UTC
From: Ron <apositiveplace@netscape.net>
Message-ID: <3nlkl.8932$_A2.1008@newsfe22.iad>
Source record: 17643
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

```
k3vr@hotmail.com wrote:
> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositiveplace@netscape.net>
> wrote:
>
>> k3vr@hotmail.com wrote:
>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
>>> wrote:
>>>
>>>> k3vr@hotmail.com wrote:
>>>>> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
>>>>> wrote:
>>>>>
>>>>>> dloydlavies@gmail.com wrote:
>>>>>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>>>>>> <assemblywizard@gmail.com> wrote:
>>>>>>>
>>>>>>>> K4YZ wrote:
>>>>>>>>> Nope.
>>>>>>>>>
>>>>>>>>> The IP Address and servers are complete proof that I do NOT share
>>>>>>>>> any annonymous character's "address".
>>>>>>>>>
>>>>>>>>> Sounds like Lennie, to me....
>>>>>>>>>
>>>>>>>>> Steve, K4YZ
>>>>>>>>>
>>>>>>>> To anyone with even an elementary understanding of anonymous proxies,
>>>>>>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>>>>>>> IP address and header details is simplistic, indeed, with little time
>>>>>>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>>>>>>
>>>>>>>> You waste my time. Worse, you think us all idiots here. You remind me
>>>>>>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>>>>>>> with members of little or no technical knowledge and then call in
>>>>>>>> "expert witnesses" and propose arguments of technical details to boggle
>>>>>>>> their minds.
>>>>>>>>
>>>>>>>> You have only proven that you, yourself are either ignorant to such
>>>>>>>> technical details, or else you are indeed street smart, I favor the
>>>>>>>> latter in this case (however, if you in the dark about such things, 15
>>>>>>>> minutes on google will enlighten you.)
>>>>>>>>
>>>>>>>> JS
```

>>>>>> Are you about done spamming this stuff? Can we please get back to the
>>>>>> discussions that these news groups were designed for? Please?
>>>>>>
>>>>>> Ron
>>>>> id love to but sme folks just will not alow not my fault and thye need
>>>>> tohe reminder
>>>> I suppose in English that means "No".
>>> it means ask someone else
>> If the original post of mine was not to you then why did you answer? Do
>> you know the name you post under?
>
> it seemed to be me I am telling it iswas msiderected

By whom? It sure seems to me that the post I replied to is in this very
thread, maybe it was your reply that was misdirected to this one rather
than the one you had intended.

>
>>>> Most of have no need of a reminder, thanks. Maybe you feel the need to
>>>> remind others, and now that you have done so please refrain from further
>>>> spam.
>>> well again that depend on other when they make it clear they don't get
>>> then they will reminded yes along with yourself and other sadly that
>>> is the way the usenet works
>> Again, your use of the English language is a bit ... vague.
>
> hardly vauge at all

I assume that English is your primary language, right? Does your news
reader have a spelling checker on/in it? Have you ever used such a
subprogram? If not I'd like to suggest that you become familiar with
its use. Your spelling is absolutely atrocious, your syntax is worse,
and this combines to make your posts nearly unreadable. Its not really
a difficult concept to grasp, and the program is quite intuitive. Its
built for those who cannot spell, in other words for someone just like
yourself (and I to be honest, but I have learned to use my spell-checkers).

>
>
> it seems and to the point
>
> if other parties would demostrate they finaly understand then then a
> repeat will not be needed
>

Same at ya big guy.

> based on past performance I don't even if they understand that it will
> last at all
>
>>> indeed as certain of those that seem to need reminders are the
>>> subjects of FCC enforcement actions I help to generate I sadly expect

>>> that they will ned more remidners in the near future but that is up to
>>> them
>>>> Ron
>> You you feel that you are the one, the best qualified, to provide these
>> "reminders"?
>
> aboslotely

How so? Are you the worlds foremost user of code? If so then I dearly
hope you spell better in code than you do here. Imagine the bad name
you give to other HAM's with your spelling.

>
> indeed as the targt of the remarks that indicate the need for a
> reminder I am thealmost the only one in the world able to ntice
>
>> With the sad state of your command of the English language I'd suspect
>> any claim that you generated an FCC action.
>
> ah now you are just being insultingand foolish

Honest, not insulting. Please, review your posts to me in this thread.
Read them one word at a time and then get back to me. Can you
honestly say that they make sense? That the spelling is above par for
an individual who's primary language is reported to be English?

>> Kindly allow the individual to whom I posted the original "post" to
>> answer.
>
> alow myself to post? how could I stopp anyone form posting indeed If I
> had that power I would used it
> and if I had the power to stop someone from posting no one would
> need remeinding

Actually, unless you use more than one name/account to post with, the
original individual I was posting to goes by the name of
"dloydlavies@gmail.com". The current account you are posting from is
"k3vr@hotmail.com". Significant difference there, don't you think?

Assuming that your account name here corresponds to a HAM call, then it
would be even more simple to assume that anyone named Brian, residing in
Florida, speaks English as his first language.

>
>> If he can that is. Somehow I doubt that anything beyond spam
>> is a reach for him.
>
> HUH?

I'd explain it, but I don't think I could keep the words small enough
for you.

Ron

1020. Re: LEO receiving antennas was Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 00:30:23 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gmvqiu$s84$1@news.jpl.nasa.gov>
Source record: 17644

Jerry wrote:

> Hi Jim
>
> It isnt clear to me that you read Howard Kowall's original post. He
> intends to build his own antenna to communicate with low earth orbiting
> satellites. I have information that will allow Howard to design and build
> his own antenna that performs better than the design he chose (Lindenblad).
> Do you disagree that a DCA will perform better than a Lindenblad?

Nope.. haven't actually looked at it. BUT.. the thing I was pointing out
is looking at the overall system design, (for which design complexity
and tolerances are factors that need to be considered), it might not matter.

>
> I have read many of your post and recognize that you are a smart guy with
> lots of information about antennas. Thats why I wonder why you'd write
> something as stupid as " And, for that matter CP is probably not worth
> worrying about". You know that 3dB *is* normally something to try to
> achieve while building an antenna.

Not if you've got plenty of link margin already, or if there's an easier
way to get the margin (e.g. rather than get 3dB more on the antenna,
shorten the feedline from 100 ft, etc.). Howard didn't say which 2m
satellite he's looking to listen to, or what kind of receiver he's using.

The reason you write that the circular
> polarization is minimally significant seems to be that you are attempting to
> minimize the value of the DCA. I wonder if you have any facts or data,
> measured or calculated, to demonstrate that you know of any antenna that
> performs better than a DCA for ground based reception from LEOs

Nope, that's not what I said. What I said was that sometimes, striving
for perfect axial ratio isn't worth it. A linear antenna will have 3dB
loss against a perfect CP, and that's a worst case. It might well be
that 3dB is ok (for receiving WESAT on 137 MHz, for instance, where they
have pretty big EIRP, it wouldn't matter)

>
> I agree with you that a Turnstile is a good antenna for LEO satellite
> communication from Earth. But, I also claim that a DCA will perform better
> than a Turnstile. Do you disagree?

No, I don't disagree or agree. Don't know how well a DCA does or
doesn't do.

>
> Can you tell me more about why you wrote "For LEO satellites, you don't
>> really want a hemispherical pattern anyway. You want something with more
>> gain at the horizon where the slant range is much greater (thousands of
>> km) than at zenith (where the range is hundreds of km). That is precisely
>> what I tried to address in the QST article. That is precisely why the
>> DCA performs better than all others. Besides, the DCA is relatively easy
>> to build , unlike the Quad helix.

My comment was general, on what sorts of patterns one might want for a satellite antenna in a fixed position to communicate with LEO.

And, yes, your DCA is easy to build and probably non-critical in dimensions and tolerances (have you checked this? either by modeling or measurement?) But so is a turnstile or a turnstile with reflector or a Lindenblad or even a quad helix, depending on how much variability you're willing to tolerate

I will readily concede that building a quad helix for VHF is a mechanical problem, compared to say, 1.5 GHz for GPS. It's going to be a physically large structure (about the size of two gallon paintcans stacked), but if you have a cookbook design (as in, buy X feet of aluminum rod or copper wire, wind it around a plastic trash can, etc.)

I've built monofilar and quad helixes (and Lindenblads and turnstiles) using copper foil tape on plastic buckets, rolled up paper, and all sorts of things. Some work better than others, but mostly, it's mechanical issues that are important. The "RF performance" is pretty much the same for a given physical size. After all, for an "omni" sort of antenna close to the ground, there's lots of other factors that probably have a bigger effect. (which was where I started..)

>
> Again, do you know of any antenna design that performs better than a DCA
> for communication with LEOs from earth and doesnt require pointing?

How does one define "better"?

Is your article in QST posted somewhere? Got a NEC deck? (Can't get it from ARRL because it's too new). Or, heck, rough dimensions and angles, and I can build the NEC model. (googling KD6JDJ DCA doesn't turn up anything useful.)

As you know, it's very challenging to get CP with good axial ratio in all directions (sort of an extension of the hairy ball theorem). For that matter, the axial ratio of the signal you're receiving may not be all that hot.

Taking GPS as an example, the SVs have a spec that the axial ratio is no worse than 1.2dB within 14.3 degrees of boresight for L1, and 3.2 dB for L2.

I couldn't find any convenient data on ham satellite antennas. I think AO51 uses some variant of a turnstile with separate ports for the two transmitters, so one is LHCP the other RHCP. I did find a rough link

budget for AO51 (aka Echo) that shows path loss varying by about 8-9 dB from zenith to horizon.

If we look at state of the art (at least in the 70s) for deep space exploration, the Low Gain Antenna on Galileo (CP for 2.3GHz) had an axial ratio of 2dB on boresight, and 11dB at 90 degrees off boresight. See Bill Imbriale's book at
http://descanso.jpl.nasa.gov/Monograph/mono.cfm?force_external=0
(Volume 8)

for more details and lots and lots of measurements.

Jim

1021. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 01:27:05 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <9cb473d8-7f8d-4cd5-9a0a-a5e2dc7206aa@v42g2000yqj.googlegroups.com>
Source record: 17645

On Feb 11, 12:40 pm, Bob Dixon <dixo...@osu.edu> wrote:
> I have seen hams use silicon sealant to fill a UHF connector before
> screwing it together. The idea is to keep out water. (The connection is
> also taped or sealed with Coax seal). Is this a good idea?
>
> Bob W8ERD

I like to grease the threads with silicon dielectric grease to keep
water from wicking up the threads but I have seen people pack N
connectors full of it before screwing them together and cant say it
did any harm. I am am a big fan of wiping down a connector with Deoxit
before puting it together.

I heard that Marvel Mystery Oil works as well as Deoxit. Has anyone
else ever heard of this?

Jimmie

1022. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 01:32:38 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <54f0c14c-1679-4768-ab4e-3564e2be3b12@41g2000yqf.googlegroups.com>
Source record: 17646

On Feb 10, 10:39 pm, "Dr. Barry L. Ornitz" <BLOrnit...@charter.net>
wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:aecb6733-9c45-482d-89aa-892c867905a1@b16g2000yqb.googlegroups.com..
> {snip - in the early days of Usenet, many sites would not allow messages
> where the quoted text was longer than the new text; it is still considered
> bad manners to do this}
>
> > I believe what you are describing is Duco cement the kind that I
> > used to use to build model cars.
> > Is that stuff still around? I think they took it off the market
> > because of the glue huffers. If it is still around it should make
> > excellent coil dope.
>
> Duco Cement is made by the Permatex division of ITW/Devcon. It has not
> been taken off the market, but in some communities its sale is restricted
> to keep it away from children.
>
> Duco Cement is cellulose nitrate dissolved in acetone. It is plasticized
> by a small amount of camphor (probably for historic reasons, camphor was
> the plasticizer used in celluloid and pyroxylin around the turn of the 20th
> century).
>
> As I stated in the post you quoted, cellulose nitrate is far from the best
> radio frequency insulator. Fingernail polish performs slightly better as
> an RF insulator but polyvinyl chloride is worse. I still recommend General
> Cement commercial Q-dope which is polystyrene dissolved in toluene or
> methyl-ethyl-ketone (GC has changed their formulation). You can make your
> own inexpensively by dissolving Styrofoam shipping "peanuts" in toluene.
> methyl-ethyl-ketone, or acetone. Of these three solvents, acetone is the
> safest. Home Depot used to sell all three solvents in the past, but sadly
> there is no store near me where I now live.
>
> --
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnit...@charter.net
> [transpose digits to reply]

I thought Duco was disolved polystyrene, perhaps it was some other
brand of "model airplane" glue.

Jimmie

1023. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 01:37:52 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <1c5d9b5d-13fb-45e1-b5e5-27f72e0d96a1@v13g2000yqm.googlegroups.com>
Source record: 17647

On Feb 11, 7:04 am, "Derek R. Smith" <De...@multnomah.demon.co.uk>
wrote:
> Having read Roy's impressive measurement results, I would like to
> interject a word of caution about the use of RTV's in electronic
> applications.
>
> As Roy states, many RTV sealants and adhesives use a curing process that
> releases acetic acid (vinegar).
> These should be used with care in electronic applications as the acetic
> acid can, and does, cause corrosion on metallic surfaces in the vicinity
> of the curing RTV.
>
> Coils constructed with a medium to heavy gauge of wire are unlikely to
> suffer from this but any inductors employing fine gauge wire can fail
> due to corroded (broken) turns resulting from contact with the acetic
> acid. The effect is not immediately apparent and can take months or
> years before a problem arises.
>
> Application of acid curing RTV should also be avoided to any component
> in an assembled electronic device that has switch contacts or plug and
> socket contacts in the immediate vicinity, for the same reason.
>
> Electronic grade RTVs do not use an acid curing process and have been
> developed to avoid the above problems.
>
> Derek (ex Dow Corning employee)
>
> In message <QMydnby0CPygwQzUnZ2dnUVZ_h2Wn...@posted.easystreetonline>,
> Roy Lewallen <w...@eznec.com> writes
>
>
>
> >Dr. Barry L. Ornitz wrote:
> >> . . .
> >> Roy Lewallen, W7EL, dipped a number of coils in various materials
> >>(RTV silicone, epoxy cement, Q-dope, hot melt adhesive, etc.) a while
> >>back and then measured their losses with a Q-meter. If Roy can find
> >>his old article, perhaps he can post it again.
>
> >Great memory, Barry! It was posted on Dec. 16, 1998. A copy of the
> >original posting follows. I didn't do any other experiments as I said I
> >would, and I've gotten very little confirming or contradictory feedback.
>
> >I recall you and some other folks posting some very good information

> >about RTV, the general thrust of which was that there's a very wide
> >range of formulations, so results might vary a lot from what I measured.
>
> >---------------
>
> >Spurred by recent comments and questions on this newsgroup, I made
> >some inductors last weekend and measured them. Results follow.
>
> >   Toroidal Inductor Measurements
>
> >   Roy Lewallen, W7EL
> >   December, 1998
>
> >   Test Equipment
>
> >Inductance: GR 1606-A impedance meter. Stray series impedance was
> >removed by initial calibration. Stray shunt capacitance was separately
> >measured and removed mathematically. Repeatability is within about +/-
> >2%. No attempt was made to establish accuracy.
>
> >Q: A home-made fixture was used. This is simply an air-variable
> >capacitor which the inductor is connected across. Coupling into and
> >out of the fixture with signal generator and oscilloscope is done with
> >very small capacitors. The Q is calculated from the center frequency
> >and 3 dB bandwidth. Use of frequency counter, built-in oscilloscope
> >voltmeter, and switchable 3 dB pad allow repeatability of about +/-
> >2%. Checks against a commercial Q meter show agreement within a few
> >percent.
>
> >All measurements were made at 10 MHz.
>
> >   Experiment 1: Coatings
>
> >Several identical inductors were fabricated, then coated with various
> >compounds. Inductance and Q were measured before and after coating.
> >The inductors were wound on Micrometals T-50-6 cores (Carbonyl SF
> >material, relative permeability 8.5) with 25 turns of #22 wire. This
> >just fits on a single layer.
>
> >Ind. #   Uncoated   Coated   Coating
> >   L(uH)   Q   L(uH)   Q
>
> >1   2.54   281   2.54   284   None (control)
> >2   2.52   286   2.54   218   Duco cement
> >3   2.51   267   2.52   265   Standard RTV
> >4   2.52   280
> >5   2.54   279   2.55   255   Clear hot melt glue
> >6   2.48   268   2.55   164   "Sealing tape"
> >7   2.51   283   2.51   262   Paraffin
> >8   2.55   262

> >9   2.56   281   2.59   278   GE Silicone II
> >10   2.50   283
> >11   2.51   277
>
> >Notes (by inductor number):
>
> >Unless otherwise noted, coatings covered the entire core and winding,
> >extending more than a wire diameter beyond the outside of the wire,
> >and the center of the core was filled.
>
> >Inductances within about 0.3 uH and Q's within less than about 5
> >should be considered equal.
>
> >1. Inductor Q was measured several times over several days to
> >establish repeatability. Results were 280, 281, 283, 286, 284. (The
> >apparent trend is interesting, but not conclusive.)
> >2. Devcon Duco(R) Cement, allowed to dry for 24 hours. Although a
> >generous coating was applied, the dried coating was less than a wire
> >diameter in thickness, and the center of the core wasn't filled.
> >3. Dap Dow Corning 100% Silicone Sealant, Clear, allowed to cure for
> >24 hours. This is standard acetic-acid (vinegar) curing RTV.
> >5. Stanley All Purpose GlueSticks, claimed set time 25-30 seconds.
> >These are nearly clear, translucent white, and not tan or brown
> >colored.
> >6. This was some stuff I got surplus. It's a black, sticky, rubbery
> >compound something like Coax Seal, but may be of entirely different
> >composition. It's in the form of a thick tape. It's soluble in naphtha
> >(and the solution dyes everything black it gets on), but acetone
> >doesn't touch it.
> >7. Household canning paraffin. (I don't know what it's called in
> >Britain, but I'm not referring to the liquid -- kerosene to us -- you
> >call paraffin. This is a common wax made from petroleum.)
> >9. GE Silicone II Household Glue & Seal, Clear. This is a
> >non-acetic-acid curing RTV. Allowed to cure for two days. Still just a
> >little soft even after this much curing.
> >11. This is the same core as #6. After the coated #6 was measured, the
> >core was cleaned, the winding cut off, the core further cleaned, then
> >a new winding put on.
>
> >Comments:
>
> >I had made some measurements years ago, but couldn't locate the
> >results. I recall that standard RTV was poor (lowered Q noticeably)
> >but that an industrial non-acetic-acid curing RTV was good. The
> >results with standard RTV in this test were striking. Either a) the
> >formulation of standard RTV has changed over the years, b) there are
> >major differences among brands, or c) my memory is faulty.
>
> >I recall from my earlier tests that epoxy was quite poor, but this has
> >to be qualified after the experience with RTV. There's a huge number

> >of different types of epoxy, and some may be much worse than others. I
> >might test some in the future, but didn't during this test.
>
> >I intend to test Q-dope in the future, but didn't have any on hand.
>
> >Conclusions:
>
> >Of the materials tested, both types of RTV stand out as having a
> >negligible effect on inductor Q. Hot melt glue and paraffin have a
> >small enough effect that they should be tolerable for many
> >applications. Duco cement seriously degrades Q, even in a much thinner
> >layer than the other coatings. The "sealing tape", tested out of
> >curiosity, shows just how great a degradation can be caused by a poor
> >coating.
>
> >None of the coatings made much of a change in apparent inductance.
> >This implies that the reduction in Q is due primarily to dielectric
> >loss rather than simple increase in capacitance due to the material's
> >dielectric constant.
>
> >Note the difference in inductance and Q between inductors 6 and 11,
> >which were wound on the same core. Apparently physical differences in
> >the windings (perhaps such as tightness and conformance to the core,
> >or uniformity of turn spacing) are a major contributor to differences
> >between inductors. All the cores used in the test were ordered at the
> >same time, so they may have come from the same batch and have
> >relatively little variation. On the basis of just the comparison
> >between numbers 6 and 11, it's entirely possible that most of the
> >variation between inductors in this experiment is due to winding
> >differences. The variation might be less if smaller wire with less
> >stiffness is used.
>
> >   Experiment 2: Turn Spacing
>
> >I believe it's well established that even a partial second layer can
> >greatly reduce the Q of a toroidal inductor. But I had recently heard
> >that optimum Q is achieved when the first layer isn't quite full, but
> >rather has about a 30 degree gap in the winding, to reduce the
> >capacitance between winding ends. To test this, I wound 23 turns of
> >#22 wire on a T-50-6 core, and measured the Q with the turns pushed
> >close together to make a gap (of about 30 degrees), and then spread to
> >evenly distribute the turns completely around the core. Measured 10
> >MHz Q's were 272 and 284, respectively. (Inductances were 2.21 and
> >2.11 uH.) This one test doesn't by any means exhaust all the
> >possibilities of core geometries, permeabilities, number of turns, and
> >wire size, all of which may play a role. But if there's any advantage
> >to leaving a gap, I believe it would be a small one. And in at least
> >one case, it's slightly better not to.
>
> >Another test was run using 10 turns of the same size wire on the same

> >core. With the turns pushed together (the winding covering less than
> >half the core), Q was 213, L was 841 nH. With the turns spread evenly
> >around the core, Q was 209 but the L had dropped to 505 nH. I reasoned
> >that a more fair comparison would be with a winding of about the same
> >inductance as the original close-spaced one. This required 15 turns
> >when distributed around the core, and resulted in a Q of 257 and L of
> >924 uH. Here again, the Q is best when the turns are evenly
> >distributed. Note that type 6 powdered iron has a very low relative
> >permeability (8.5), so results might be different with
> >higher-permeability materials. However, this is the material I usually
> >use for high-Q inductors at HF, so I'm most interested in how it's
> >affected.
>
> > Experiment 3: "Regressive" Winding
>
> >In the past, I've found what I thought was a moderate improvement in Q
> >by "regressively" winding an inductor. To do this, you wind half the
> >turns in the normal manner. Then you pass the wire through the hole,
> >but to the opposite side of the
>
> ...
>
> read more »- Hide quoted text -
>
> - Show quoted text -

Ive see the center conductor of RG214 dissolved through with RTV. The corrosion on the associated Al/Cu joint was likewise disgusting.

Jimmie

1024. Re: LEO receiving antennas was Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 01:57:47 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <vmLkl.258$ac6.45@nwrddc02.gnilink.net>
Source record: 17648

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gmvqiu$s84$1@news.jpl.nasa.gov...
> Jerry wrote:
>
>> Hi Jim
>>
>> It isnt clear to me that you read Howard Kowall's original post. He
>> intends to build his own antenna to communicate with low earth orbiting
>> satellites. I have information that will allow Howard to design and
>> build his own antenna that performs better than the design he chose
>> (Lindenblad).
>> Do you disagree that a DCA will perform better than a Lindenblad?
>
> Nope.. haven't actually looked at it. BUT.. the thing I was pointing out
> is looking at the overall system design, (for which design complexity and
> tolerances are factors that need to be considered), it might not matter.
>
>>
>> I have read many of your post and recognize that you are a smart guy
>> with lots of information about antennas. Thats why I wonder why you'd
>> write something as stupid as " And, for that matter CP is probably not
>> worth worrying about". You know that 3dB *is* normally something to try
>> to achieve while building an antenna.
>
> Not if you've got plenty of link margin already, or if there's an easier
> way to get the margin (e.g. rather than get 3dB more on the antenna,
> shorten the feedline from 100 ft, etc.). Howard didn't say which 2m
> satellite he's looking to listen to, or what kind of receiver he's using.
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>
> The reason you write that the circular
>> polarization is minimally significant seems to be that you are attempting
>> to minimize the value of the DCA. I wonder if you have any facts or
>> data, measured or calculated, to demonstrate that you know of any antenna
>> that performs better than a DCA for ground based reception from LEOs
>
> Nope, that's not what I said. What I said was that sometimes, striving
> for perfect axial ratio isn't worth it. A linear antenna will have 3dB
> loss against a perfect CP, and that's a worst case. It might well be that
> 3dB is ok (for receiving WESAT on 137 MHz, for instance, where they have
> pretty big EIRP, it wouldn't matter)
>
>
>

>>
>> I agree with you that a Turnstile is a good antenna for LEO satellite
>> communication from Earth. But, I also claim that a DCA will perform
>> better than a Turnstile. Do you disagree?
>
> No, I don't disagree or agree. Don't know how well a DCA does or doesn't
> do.
>
>>
>> Can you tell me more about why you wrote "For LEO satellites, you
>> don't
>>> really want a hemispherical pattern anyway. You want something with more
>>> gain at the horizon where the slant range is much greater (thousands of
>>> km) than at zenith (where the range is hundreds of km). That is
>>> precisely what I tried to address in the QST article. That is
>>> precisely why the DCA performs better than all others. Besides, the
>>> DCA is relatively easy to build , unlike the Quad helix.
>
> My comment was general, on what sorts of patterns one might want for a
> satellite antenna in a fixed position to communicate with LEO.
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> And, yes, your DCA is easy to build and probably non-critical in
> dimensions and tolerances (have you checked this? either by modeling or
> measurement?) But so is a turnstile or a turnstile with reflector or a
> Lindenblad or even a quad helix, depending on how much variability you're
> willing to tolerate
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> I will readily concede that building a quad helix for VHF is a mechanical
> problem, compared to say, 1.5 GHz for GPS. It's going to be a physically
> large structure (about the size of two gallon paintcans stacked), but if
> you have a cookbook design (as in, buy X feet of aluminum rod or copper
> wire, wind it around a plastic trash can, etc.)
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> I've built monofilar and quad helixes (and Lindenblads and turnstiles)
> using copper foil tape on plastic buckets, rolled up paper, and all sorts
> of things. Some work better than others, but mostly, it's mechanical
> issues that are important. The "RF performance" is pretty much the same
> for a given physical size. After all, for an "omni" sort of antenna close
> to the ground, there's lots of other factors that probably have a bigger
> effect. (which was where I started..)
>
>
>>
>> Again, do you know of any antenna design that performs better than a
>> DCA for communication with LEOs from earth and doesnt require pointing?
>
>
> How does one define "better"?
>
> Is your article in QST posted somewhere? Got a NEC deck? (Can't get it

> from ARRL because it's too new). Or, heck, rough dimensions and angles,
> and I can build the NEC model. (googling KD6JDJ DCA doesn't turn up
> anything useful.)
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> As you know, it's very challenging to get CP with good axial ratio in all
> directions (sort of an extension of the hairy ball theorem). For that
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> hot.
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> AO51 uses some variant of a turnstile with separate ports for the two
> transmitters, so one is LHCP the other RHCP. I did find a rough link
> budget for AO51 (aka Echo) that shows path loss varying by about 8-9 dB
> from zenith to horizon.
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> If we look at state of the art (at least in the 70s) for deep space
> exploration, the Low Gain Antenna on Galileo (CP for 2.3GHz) had an axial
> ratio of 2dB on boresight, and 11dB at 90 degrees off boresight.
> See Bill Imbriale's book at
> http://descanso.jpl.nasa.gov/Monograph/mono.cfm?force_external=0
> (Volume 8)
>
> for more details and lots and lots of measurements.
>
>
>
> Jim

Hi Jim

I wont interlace my reply so that it might be easier for us to read.

You wrote that "it might not matter that a DCA performs better than a Lindenblad" Well it does perform better for contact with a LEO satellite and I'd expect that be enough to make the DCA worth considering. Maybe I am missing something. Why would you *not* try making DCA for LEOs??

What (exactly is your point in writing about eliminating line loss when the discussion is antenna sensitivity??? Why is it pertinent what LEO he is interested in or what receiver he uses??? He asked about coax for an antenna harness. I thought I was helping Howard when I pointed him toward the DCA. Jim, if you dont need the DCA design concept there is no need for you to consider it. But, please dont diminish the value of the DCA for LEO use unless you have facts or data to show where I'm wrong about how well the DCA performs.

Jim, are you writing that antenna sensitivity "doesnt matter" when receiving NOAA weather satellite signals at 137-138 MHz? If so you are

completely wrong. Oh, you personally may have no interest in reception from the NOAA satellites (APT) as low elevations. but, when recording images of the Earth from NOAA satellites (APT) there is *no* antenna that performs better than a DCA. And, that extra sensitivity using the DCA is highly desired by most APT imagers.

Yes, I have made lots of measurements of the DCA. I made my own slotted line so I could know the antenna's impedance. I have hundreds of actual (measured) radiation patterns. I have plenty of EZNEC models of the DCA. As I posted earlier, Patrik Tast posts lots of fundamental design information on his Web Site http://www.poes-weather.com/index.php .
Clearly, I am proud of the results I have realized with this DCA antenna design project, so I'm always happy to share it with anyone interested. Anyone interested in the DCA has always received answers to any/all questions sent to me.

I define better performance as greater sensitivity to signals from LEO satellites. But, the DCA has a much wider impedance match than a Quad Helix.

I was pleasantly surprised that the axial ratio of the DCA radiation is exceptionally good at most angles. EZNEC gives good prediction of AR at all angles. Patrik Tast's Signal Plotter records the antenna sensitivity at 1 second intervals while the NOAA satellite is above the horizon. As I remember, you acknowledged that I have developed a method of recording actual radiation patterns using the program Patrik developed for me (SignalPlotter).
I submit to you that, if you ever have need to develop a hemispheric coverage antenna for CP signals, you could benefit from learning about the DCA. It works.

Jerry KD6JDJ (who sincerely wants to know
facts about the flaws in the DCA design)

1025. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 05:42:41 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <mFOkl.25771$Dx3.9537@newsfe21.iad>
Source record: 17649

"Dave Platt" <dplatt@radagast.org> wrote in message
news:r1ba66-4u6.ln1@radagast.org...

< snip >

> I don't think there's any problem with using these sorts of cables in
> commercial or amateur service in *simplex* applications... they can
> handle transmitting, or receiving, just fine. It's only when you try
> to do both, simultaneously, through the same cable. that the noise
> generation can become a problem.
>
> The same can be true of some classes of antenna problems. The
> repeater system I help maintain developed a serious desensitization
> problem, due to internal corrosion/oxidation which occurred in the
> antenna after several years up in the weather. I doubt that the
> corrosion/oxidation effect would ever have been noticed if the antenna
> were in service as a normal (simplex) base antenna - it didn't affect
> the transmit SWR or the receive sensitivity at all,

All metallic contacts are potential problems. For years I did Navy
electronics, including a couple hundred EMI inspections. Where "topside
housekeeping" was neglected, broadband noise (BBN) was sure to be a problem.
(All topside metallic objects need to be either insulated or firmly
connected -- no incidental contact.)

As little as a hundred watts would excite some junctions to generate BBN
that could be detected throughout the HF band on other antennas. More power
would generate BBN up to several hundred MHz. Been there.

1026. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 05:52:34 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <U_idnVbqOI-_JA7UnZ2dnUVZ_uSdnZ2d@posted.easystreetonline>
Source record: 17651

JIMMIE wrote:
>
> Ive see the center conductor of RG214 dissolved through with RTV. The
> corrosion on the associated Al/Cu joint was likewise disgusting.
>
> Jimmie

And I've used the acetic acid-curing variety many times on bare copper (wire and PC board traces) and aluminum, and not a hint of corrosion when it was cut off long after. Besides the wide variety of formulations, there may be other factors at work causing the corrosiveness to vary so much.

Roy Lewallen, W7EL

1027. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 05:57:26 UTC
From: k3vr@hotmail.com
Message-ID: <qhe7p4t7855djbo7v8jnlvih9qp62pjr7i@4ax.com>
Source record: 17650
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Wed, 11 Feb 2009 16:33:38 -0600, Ron <apositiveplace@netscape.net>
wrote:

>k3vr@hotmail.com wrote:
>> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositiveplace@netscape.net>
>> wrote:
>>
>>> k3vr@hotmail.com wrote:
>>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
>>>> wrote:
>>>>
>>>>> k3vr@hotmail.com wrote:
>>>>>> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
>>>>>> wrote:
>>>>>>
>>>>>>> dloydlavies@gmail.com wrote:
>>>>>>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>>>>>>> <assemblywizard@gmail.com> wrote:
>>>>>>>>
>>>>>>>>> K4YZ wrote:
>>>>>>>>>> Nope.
>>>>>>>>>>
>>>>>>>>>> The IP Address and servers are complete proof that I do NOT share
>>>>>>>>>> any annonymous character's "address".
>>>>>>>>>>
>>>>>>>>>> Sounds like Lennie, to me....
>>>>>>>>>>
>>>>>>>>>> Steve, K4YZ
>>>>>>>>>>
>>>>>>>>> To anyone with even an elementary understanding of anonymous proxies,
>>>>>>>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>>>>>>>> IP address and header details is simplistic, indeed, with little time
>>>>>>>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>>>>>>>
>>>>>>>>> You waste my time. Worse, you think us all idiots here. You remind me
>>>>>>>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>>>>>>>> with members of little or no technical knowledge and then call in
>>>>>>>>> "expert witnesses" and propose arguments of technical details to boggle
>>>>>>>>> their minds.
>>>>>>>>>
>>>>>>>>> You have only proven that you, yourself are either ignorant to such
>>>>>>>>> technical details, or else you are indeed street smart, I favor the
>>>>>>>>> latter in this case (however, if you in the dark about such things, 15

>>>>>>>>> minutes on google will enlighten you.)
>>>>>>>>>
>>>>>>>>> JS
>>>>>>> Are you about done spamming this stuff? Can we please get back to the
>>>>>>> discussions that these news groups were designed for? Please?
>>>>>>>
>>>>>>> Ron
>>>>>> id love to but sme folks just will not alow not my fault and thye need
>>>>>> tohe reminder
>>>>> I suppose in English that means "No".
>>>> it means ask someone else
>>> If the original post of mine was not to you then why did you answer? Do
>>> you know the name you post under?
>>
>> it seemed to be me I am telling it iswas msiderected
>
>By whom?
you

> It sure seems to me that the post I replied to is in this very
>thread, maybe it was your reply that was misdirected to this one rather
>than the one you had intended.

may seem that way to you
>
>>
>>>>> Most of have no need of a reminder, thanks. Maybe you feel the need to
>>>>> remind others, and now that you have done so please refrain from further
>>>>> spam.
>>>> well again that depend on other when they make it clear they don't get
>>>> then they will reminded yes along with yourself and other sadly that
>>>> is the way the usenet works
>>> Again, your use of the English language is a bit ... vague.
>>
>> hardly vauge at all
>
>I assume that English is your primary language, right?
you are then truly an assume

> Does your news
>reader have a spelling checker on/in it?
no
> Have you ever used such a
>subprogram?
yes

> If not I'd like to suggest that you become familiar with
>its use.
why?
> Your spelling is absolutely atrocious, your syntax is worse,
>and this combines to make your posts nearly unreadable.

then don't read it if you like
> Its not really
>a difficult concept to grasp, and the program is quite intuitive. Its
>built for those who cannot spell, in other words for someone just like
>yourself (and I to be honest, but I have learned to use my spell-checkers).

the question is why bother the only people that complain seem to be
folks Id perfer to anoy rather than spend any extra effort trying to
please

>
>>
>>
>> it seems and to the point
>>
>> if other parties would demostrate they finaly understand then then a
>> repeat will not be needed
>>
>
>Same at ya big guy.

HUH?
>
>> based on past performance I don't even if they understand that it will
>> last at all
>>
>>>> indeed as certain of those that seem to need reminders are the
>>>> subjects of FCC enforcement actions I help to generate I sadly expect
>>>> that they will ned more remidners in the near future but that is up to
>>>> them
>>>>> Ron
>>> You you feel that you are the one, the best qualified, to provide these
>>> "reminders"?
>>
>> aboslotely
>
>How so?
by being so

> Are you the worlds foremost user of code?
no why do you ask?
indeed I can't use it all

> If so then I dearly
>hope you spell better in code than you do here.

why would I want t use to code?

> Imagine the bad name
>you give to other HAM's with your spelling.

no you give a bad name to hams by showing youself to be an asshole
>
>>

>> indeed as the targt of the remarks that indicate the need for a
>> reminder I am thealmost the only one in the world able to ntice
>>
>>> With the sad state of your command of the English language I'd suspect
>>> any claim that you generated an FCC action.
>>
>> ah now you are just being insultingand foolish
>
>Honest, not insulting.
no insulting the receiver gets to decide that

> Please, review your posts to me in this thread.

why?

> Read them one word at a time and then get back to me.
why?
> Can you
>honestly say that they make sense?
yes

> That the spelling is above par for
>an individual who's primary language is reported to be English?
huh?

>
>>> Kindly allow the individual to whom I posted the original "post" to
>>> answer.
>>
>> alow myself to post? how could I stopp anyone form posting indeed If I
>> had that power I would used it
>> and if I had the power to stop someone from posting no one would
>> need remeinding
>
>Actually, unless you use more than one name/account to post with, the
>original individual I was posting to goes by the name of
>"dloydlavies@gmail.com".
I do your point

> The current account you are posting from is
>"k3vr@hotmail.com". Significant difference there, don't you think?

no they are the same person

>
>Assuming that your account name here corresponds to a HAM call, then it
>would be even more simple to assume that anyone named Brian, residing in
>Florida, speaks English as his first language.

well brain does not live in florida he lives in PA and lies to the fcc

>
>>

>>> If he can that is. Somehow I doubt that anything beyond spam
>>> is a reach for him.
>>
>> HUH?
>
>I'd explain it, but I don't think I could keep the words small enough
>for you.

back to ad homin attack and insult boring

>
>Ron
>

1028. Re: Coil Dope [silicon vs. silicone, DeOxit vs. Marvel Mystery Oil]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 05:59:56 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <qVOkl.11705$Qn1.7149@newsfe19.iad>
Source record: 17652

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:9cb473d8-7f8d-4cd5-9a0a-a5e2dc7206aa@v42g2000yqj.googlegroups.com...
> On Feb 11, 12:40 pm, Bob Dixon <dixo...@osu.edu> wrote:
>> I have seen hams use silicon sealant to fill a UHF connector
>> before screwing it together. The idea is to keep out water. (The
>> connection is also taped or sealed with Coax seal). Is this a
>> good idea?
>>
>> Bob W8ERD

> I like to grease the threads with silicon dielectric grease to
> keep water from wicking up the threads but I have seen people pack
> N connectors full of it before screwing them together and cant say
> it did any harm. I am am a big fan of wiping down a connector with
> Deoxit before putting it together.

Please people, use the correct spelling. Silicon is an element with
a melting point of 1410 to 1414i¿½C (2570 to 2577i¿½F) depending on the
reference. Silicone grease is a low molecular weight polydimethyl
siloxane polymer. It is hydrophobic (does not wet with water) and
is often used to lubricate rubber and other items that are
incompatible with hydrocarbon greases. Its main use with electrical
connectors is its lubricating properties and water repellency.

> I heard that Marvel Mystery Oil works as well as Deoxit. Has
> anyone else ever heard of this?

DeOxit is 95% petroleum naphtha with 5% of a proprietary
ingredient. Caig tends to try to keep the secret ingredient
secret. I cannot say for sure but I suspect it might be tocopherol
(Vitamin E). Marvel Mystery Oil is a mixture of naphthenic
hydrocarbons (motor oil), mineral spirits (naphtha), and 1,2-
dichlorobenzene (a chlorinated solvent). From the smell, it is
likely to contain a small amount of methyl salicylate (oil of
wintergreen). So I would say they are quite different. Besides,
the chlorinated solvent is not the best thing to use around
polyethylene and is especially bad around vinyl.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

1029. Subverted to Steal American Lives with by Lying - Bush and Cheney both worked to close 911 FBI investigations - Bush knowingly conned Americans for death by lying that Saddma wouldn't lt the inspectors in - Subverted to Steal American Lives with by Lying

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 08:03:53 UTC
From: dumber than rocks <oo34524nomailhere@hotmail.com>
Message-ID: <eul7p4pqmdlj72m16n9opfqn2o8v4gso50@4ax.com>
Source record: 17653
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

iuu-uiiuo=uioiu=iioo=uiui-ui=ioiu

FBI Believed that Bombs Used on 9/11
http://georgewashington2.blogspot.com/2009/02/fbi-believed-that-911-involved-bombs.html

/ / Indeed, the FBI told a reporter for
USA Today that FBI agents believed there
were bombs in the Twin Towers. \ \

Awesome. Where is CNN and CBC here? Is
this an issue of life and death or no?
Who are they to judge OUR lives unworthy
of defense? I am King Johnny. Support my
demands for open communications above the
NWO shills who bark Bush and the Neocons
must be allowed to escape our Public
authority.

-

Calling for Americans to Investigate Bankers
http://www.megaupload.com/?d=WJS4WDAA
(on with Robby)

Private Banking Made Simple

http://www.megaupload.com/?d=0K03GAVY
http://www.mediafire.com/?xo9w32zmfox

King Johnny's "Nazi Israel"
http://www.megaupload.com/?d=QAEXT4G0
(note: History has changed since then)

CNN Admits 9-11 Inside Job
http://www.youtube.com/watch?v=uyMIqVfH8zY

Report Of ï¿½People Planting Bombsï¿½ on 9/11
http://www.prisonplanet.com/report-of-people-planting-bombs-on-911.html

Why isn't Happy George Norry, Our Enemy, covering
this everyday as an important subject to defend
American life he holds truly in contempt?
Again, Alex Jones leaves every American to die

victim to his NWO, before he will acknowledge
TRUE evil in our world. George Noory, the evilest
ACTUAL Enemy of History, Alex claims is a good
guy for never allowing open discussion on 911,
Afghanistan, Iraq, and so on, without selling
his Zionist hate for our Humanity. Can you believe
that demon enemy co-ksucker Ian Punnet actually
preaches? The demon has told US more than once
he doesn't believe in God, so what do you think
that other "buddy" of Alex Jones has in store for
your life? Alex has said near a hundred times, that
Christ's disciples were all killed by the Romans
for believing - what a demon he is - for - what
Bible is his fans conceiving? Again, Alex Jones will never
encourage his listeners to demand open debate. Alex
would lose on all his lies like, he's been on with
George Noory a hundred times, or fifty times in
five years. Why does Alex lie to US all like that?
Because he doesn't really want Justice to prevail
where GREATLY wiser men or women would likewise prevail
through open dialog. Alex can't have that because
everybody MUST be under HIS NWO mind control.
Mind control on education, the Federal Reserve,
and FREEDOM. Alex figures having a gun to shoot
innocent Americans in the back is his brand of
loyalty to God and Country. Well, I, as Christ,
state it isn't mine. He would see every American
murdered, before allowing the notion that he, and
his likewise cult, might just have something to
learn about evidence being a REQUIREMENT to prove
someone's guilt or innocence. His godless commitment
is to escape Bush, and his zionist media controllers
with excuses that don't hold water in any Court of
Thee. Alex refuses to allow Americans to know why
the Constitutional protections are there to defend
yourself, because if you did, you'd demand the
arrest of Bush for treason, and call Ron Paul an
sell out loser who pocketed the millions conned for
being Alex's loyal fans. Alex doesn't like this Truth
because he's gotta be leading Earth's "Truthers"
at the pinnacle of his spear as a liar, where all
of History, is one badly drawn Alex Jones cartoon - a
dickhead. A true dickhead illiterate on the bible,
on Justice, on Life.

I must be on crazy pills
http://www.uruknet.de/?p=m51615&hd=&size=1&l=e

/ / Well, why haven't the banks just returned
the money?... \ \

People who know they defeat all "Conservatives"
in seconds with indisputable simple logic, will
eventually rule the Universe, if CNN, CBC, and
Alex Jones allow open communications on what is
understood by all as high acts of treason openly
committed without a defense of smart people
explaining why/how we are being rooked as idiots
on purpose. Crazy man, crazy. Oh.. anda..
justwondrin', would be the first name Reza be that
of the feminine or, echem.. masculine? Just
curious on language that's all..

Oh, logic like, "Buying in bulk is cheaper."

-

Godsmack - I Fucking Hate You
http://www.youtube.com/watch?v=FiPtHkfDXus

Hey! Johnny's new theme song playing when
I be bagging the bushite zionist whores of
the demon antichrist, Our Mr. Bush Jr. Bush
closed 911 investigations, Bush lied about
Saddam not letting inspectors in, Bush never won an
word fairly in his entire war crime life of
game rigging with naked deceit and betrayal to
the cause of Man, die bushite die. Rock on
my friends, rock on.

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why
bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what
any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

Private Banking Made Simple
http://www.mediafire.com/?xo9w32zmfox

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough
-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the
deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate

cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

Worst Person in American Broadcast Journalism
http://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel

This is like, so profound. Gibson's condemnation
is directly aimed at his own ideas of the subject
he has no grasp of. Wow. profound. See though..
this "popular" FoxsNews celeb has zero interest in
helping America succeed to defend freedom through
lawful actions, because he has no sight of a better
world blindly destroying itself. Hey Gibson! why
don't you try and be a good guy for a change! No
joke. Wow. Profound.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-c
hildren-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty
verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Ten years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier

who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all
around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits

at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be
an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men.

-

(pet bed cat trees...)
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would
have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors

in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not
Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'
dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

-

U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministeri¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change
this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&playnext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3
http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the

coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&
scoring=d&

Huh? "at last been disarmed..." ? How does he figure?
The equation hasn't changed. Example: The same
unaccounted anthrax, (that was disintegrated into ash),
still is not able to be measured as completely accounted
for, (never could be), but this bushwhoring war crime
apologist, tells US, it was only though the lawless
murder of our good friends and family for countless
generations, that he now attests without reason, or
evidence, to find Iraq in "fact" disarmed of it's still
nowhere to be found, weapons of mass destruction. (An
irrational reason he pronounced previous in corporately
broacasted public support of instigating heinous war
crimes against our humanity under the leadership skills
of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron.
And, the Iraq war is a war crime. But Ron, the
Fascist, doesn't want THESE FACTS uttered. Why?
Because wiser men would prevail, wiser men like
me who understand buying in bulk is cheaper. Those
like Christ who understand, who KNOW, the banker
doesn't cover our loans - so why give them as much
as a taxed red penny?, let alone trillions as
officially unaccounted for? They are stealing the
cash Ron. Ask yourself: Why has Alex Jones
forbidden his bushwhore cult from understanding
Bush doctored the NIE?, or of iron flowing like
water from the towers? Because wiser men would
prevail and he can't have that. He called shooting
innocent men in the back, an act of liberty. I,
an actual god, unlike Alex, lie near never, but
maybe to myself when I'm lonely. Alex yes will
tell you rapists are free to do what they will
in Texas to American children, un-arrested, but
he won't mention it when the police chief is with
him on air, talking about how he'd like to be
exempt from traffic tickets for being so popular.
NO MENTION of the rapists walking away without
arrests made, no mention of Bush's documented
treasons on 911. Where are Alex's priorities?
In selling YOU out so he can be wealthy like a

bankster?, and have special rights over everyone
else that drives drunk, or speeds? a big hero
standing over our dead soldiers yelling, I told
you so, I told you so, I was right, I was right.
Again, understand: It is not by my will to deny
open debate with America, it is Alex, and his
demon buddy George Noory that denies out Humanity
this right. And when people try, like Peggy, or
Black men on Jewry, Alex lies cheats and steals
our wills for further thefts. Ron Paul's family has
millions taken from loyal Alex Jones fans. MILLIONS!
Does Ron do commercials with that money highlighting
the bushmob's plan to invade Afghanistan, dated two
days prior to 911 for Enron? Of course not, wiser men
would prevail to expose him as the charlatan charity
raider he is regarding Health Care, Social Security,
Public Schooling, earmarks.. It is unfair to measure
Ron against corporate nazi zionist whores of MSNBC who
willing, openly, kill American teen soldiers for
criminal neocon gains, as an honorable gentleman's
talk. Half honest People like Ron are extremely ignorant
on the workings of our world. EXTREMELY. I joke here not.
Evil is the deceived disguised - translated - evil
people are always dumb.

Corporate America says no, Charlie Manson was a genius,
but not, that most Americans are prone too easily to
suggestive states where they can be made to believe
anything blindly. Think: what does, "bin Laden did 911"
mean anyway? You should know of what I'm trying
to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.
"Free Talk Live" is the best example for this: the
two hosts are unbelievably ignorant on just about
every single subject under the sun, but beat
CONSTANTLY, on how greatly wise they are as drop-outs.
You wouldn't believe any of them when they speak on
Freedom, if you simply understood, an innocent man
does not deserve to be in OUR prisons, or tortured.
Under any circumstances that Obama has excepted for
our excuses. Magna Charta. But in Alex's 'genius' mind,
he doesn't need to actually understand he is a for
sure bigot, (measures another unfairly in a group HE
concocts from blind hate or personal fear - typical

CONSERVATIVE and/or racist) who has no problems with
that at home, or at work. Provable in seconds by
OPEN DEBATE, but Alex ain't gonna take our calls
because, he can't for the lives of every People
person thought of here, admit he could have
something to learn, therefore, the NWO is
unstoppable in his brain washed cult of indifference
to Justice practiced for the benefit of all treated
fairly. Why? He's not wise enough to respect the great
minds of the audience, and I personally believe,
he doesn't even have the good judgment to own
a gun. (I mean, why wouldn't Alex find my stories
of OUR Justice system triumphing by my single hand at least
minimally beneficial to his blind cult followings? to not
hang up on me immediately while spewing lie after lie
on how I'm top secretly a dis-info NWO artist working
for Bush? or whose voice sounds too friendly to trust?
like he has done the last four times I've phoned -
Hey! I can be an asshole if you want - no prob.)
Perhaps it's near because, Alex Jones is blind, and
as such, could actually be found guilty in Texas for
murdering those two innocent black men shot
in the back with his approval to release the murderer
from a RIGHTFUL death sentence prosecution. "law of
Parties". He is a party to the crime, for he worked to
support the release of the FOR SURE, FIRST DEGREE MURDERER.
Sound like an America you could live with? I didn't
think so either. I wanna be Alex's Attorney. Texas is
a State of massive lawless corruption, as dire
incompetence in legal affairs where they OFFICIALLY
plan executions against innocent People not established
to have harboured criminal intent! With Jury Trials!!!!
!!!!!!!!!!!!FINING THEMSELVES GUILTY!!!!!!!!!!!!
While Alex does express murderous criminal intent,
and the Police chief calls him a good man for no
scary pressures. What the fuck is wrong in Texas
where they mess themselves like this regularly?
Imagine, while Bush with the Neocons escape, and
Zionist Israeli target to murder Christian School
girls OFFICIALLY, Alex doesn't want to have to pay
traffic tickets like the rest of US. What a douche bag
to tell he LEADS our Truth movement I say. Now, I'm
not saying he shouldn't contribute with the truths
WE SHARE, far from it, it's just he can't have our
cut off switch to silence our objections to his exposed
foolishness, and/or blatant criminality. I'll give him
a chance, for starters, to criticize any position I take
while we all publically call on ourselves for
assistance internationally. Like on his "buddy",
George Noory, deserving to be tried Publicly for the

traitor he is, and be formally executed after his day
in Court. Our Courts. Teen soldiers have been conned
to die by George Noory for the escape of the neocon
terrorists who committed 911 with Condi, Runsfeld,
Bush, Myers, Tommy Franks, and General Ahmad. AND
HAPPY GEORGE NOORY KNOWS IT - and cons with lies
naked to the ear of any who can listen or hit record.
A NAKED traitor to the cause of Liberty if we ever knew
one regarding the War Crime facts of Iraq. .And
Ian Punnet is an evil godless enemy Bush whore who
lies too to get YOU killed as the innocent soldier
forsaken so don't forget.. It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars
awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable
death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

/ / the FBI says no.. There is not a thread of
fact a zionist offers to form YOUR own mind in
respect for your rights being equal to ours. \ \

Who is the guy who keeps writing such things,, and
shouldn't he be recognized as Promotional to raise
all spirits towards a better future? I'm with him.

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes
http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

Alex Jones, the Slave, told US today that
he challenged Bush for eight years - Bushite
lying nazi traitor. Not only that, but he
also ridiculed those who wish to blame Bush
now for anything! Again, he doesn't want
Justice where bad guys can't steal from
ourselves unrepresented. Ron Paul is a

multi-millioniare, made rich by charitable
aid conned from Alex Jones' NWOers! Alex
Jones doesn't have a problem with that, we
do.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

-

Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Dashle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

http://www.iran-daily.com/1387/3324/html/east.htm#s359247

/ / International attorneys have filed war crime
charges against 15 Israeli political and military
officials including Ehud Olmert, Tzipi Livni and
Ehud Barak. \ \

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We must demand open communications to bring back
values WE ALL would agree to through polite debate.
"Conservatives" don't want this Freedom idea
expressed in general terms because, a "conservative"
is universally, minimally. a bigot. Why? Life isn't
like, their way, - then- all other opinion under
the sun on how things actually get done. (Aka
"socialist" traffic light repair men, or "liberals"
who want to treat The People fairly). Or who we are
as equals to our laws fairly practiced. Pay attention
to what I am saying here. Liberals can be Dicks with
a capital D too of course. But a Hannity couldn't
survive 2 minutes with me speaking on his very real
treasonous behavior in OUR public arenas. Behavior
done to escape the 911 culprits from the long arm of
the Law, with his conscious will of criminal deceit
exposed, we all learn to better defend ourselves.

And Shawn Hannity can't have that for ourselves, he takes too much money from ourselves as talentless by keeping US in the dark dying needlessly for traitors never elected publicly.

Who am I you ask? Johnny Law. at your service. Look me up with usenet to discover, we live in a world of idiots everywhere pretending to be somebody by lying. While I want US all to truly improve our condition by actually understanding how bad off we are by failing to respect ourselves for correction. Too many, know it alls, with not enough to know you need evidence to form a guilty verdict against an accused man or woman. Not according to CNN, CBC, MSNBC, Foxnews and the like however. Let's change this by supporting my challenge for top billing at the Coast to Coast radio show hosting. Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the view count? What is this business of a=a+1, the top secret, I'll go rhythm, that is way beyond our comprehension in it's scientific complexity? For Americans, okay, but the Human species just isn't this dumb.

While Zionists OFFICIALLY target Christian school girls for mass murder, CNN instead reports that bushite grunts attacked girls in Afghanistan, posing as Taliban. I WILL every celeb at CNN to be arrested, tried and executed for the reporting they have done today without facts. Remember: the Taliban played no part on escaping those responsible for 911, and opened schools for girls, and were brought together on the single purpose to defend women. Death to CNN reporters to LIE for killing OUR school girls. I HATE zionist enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US officials from torturing but it does not ban any of them, himself included, from sponsoring torture overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants the death sentence under Reagan's "War Crimes Act".

SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close

Police investigations immediately after
911 (obstruction), or that WE have video
of iron flowing like water that PROVES,
without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with
all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice like your deviant election rigger,
Ron Paul? Well, no wonder, Alex told US he's
into shooting innocent American People in
the back as a tyrant of evil, a white Devil
if you will. Kids too if you dare look in
his back yard for a copper. See? Now if Alex
doesn't allow US to speak, more and more will
understand to know why. I am a defender of
all that is right and just in this world,
because I don't need to lie like Alex does on
a huge host of issues. I'm more like Jessie
Ventura, in where I don't need/want to lie.
If I end looking foolish, (of which I like
never truly am), it's a benefit, because that
way, I've learned something. Alex knows
everything already, and 'is always right'.
Like I say Retarded. You weren't right by not
understanding that the banker doesn't cover
the loan. One example of easily hundreds. He's
a typical, he knows it all, know nothing dumduk
American. Hear him on health care speak as
Ron Paul does, and know, I defeat them in under
ten seconds. TEN SECONDS. This is why he hasn't
in years, allowed me to speak more than five
or six words. He's rather all America die, than
admit he does NOT rule our 'Ocean of Truth'.
I want the challenge of opposition through debate
to PROVE my skills beyond reproach. Alex,
every time, just hangs up on anyone who tries
to improve our communications by factually
speaking. Why? Because he IS TRULY deeply

ignorant on what freedom or Justice means. Why we have law. What a consensus is. Allan Watt is severely disabled in this regard, another Alex Jones favorite. And this is why, Allan can't take calls openly either. He has jerked off with himself too long to quit now learning super basic precepts, for like Alex, he "knows" the inner workings of the 'genius' NWO elites. Not Law 101, not Bush, not Rumsfeld, Not Condi, not Torturers, not bank robbers, rapists, or even petty thieves. Allan Watt isn't a bad guy, he's just a chauvinist pretending he actually knows something, when his real disability is directly related to his absence in understanding understandings. Doubt is a near foreign concept. A challenge for Allan: can you get your 'genius mind' around the fact that Peter Powers did the London bombings, and not the Illuminati of 1463? and if not, why are we so dumb to our present plight that way? Don't get me wrong, Allen has much to offer, it just isn't the issue right now on saving our dying futures. Maybe I was too hard on Allen, he is really actually kinda cool. Alex Jones too has many incredible moments of ecstatic clarity increasing in all they joy of seeking enlightenment. .. Ok - but this is serious business that requires little dilly dally with what we'll have as a side dish in Paradise Lost. We are talking Human Lives have been destroyed by our inaction to remedy these failures to communicate effectively. and.. Jeeze, the weight of my responsibilities, as just plain John, being a/the Legos Man - for like the Family and everythings, get's me never forgetting, all we got are these words left dormant from the power they truly possess in the minds of the wise asses. And.. here I am. I'm a Talker of Words looking to make a break in the NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches who openly advocate tyranny and oppression through mass murder of ourselves as the innocent left targeted defenseless. Enemies of Jews everywhere, the Zionist cares not for facts on who's Life it destroys for stolen gain by lying. That's why they target Jews, for fear the

Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so,
why not demand the arrests of those who
broke the truce, and murdered innocent people
indiscriminately, on plans more Jews would
die for cash profit? Profit paid for by
zionist amerika? - the false imprisoning
torture and rape center for Neocon
Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

/ / This has been a central theme of the war in
Gaza: not that hundreds of innocent people were
killed, not that over 5,000 were horribly injured
and not the sky-high human and monetary cost of
wrecking homes or razing infrastructure. \ \

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival
-in-brussels/

"We believe there were dozens of IRGC
personnel in the Gaza Strip during the
war," an Israeli source said. "Some were
killed; others went into hiding, and
others escaped."

See? the demon enemy of God speaks no
evidence as a TRAITOR to every Jew. A terrorist
nation that still steals humanitarian aid in
our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Where are the Americans asking for the
formal arrest of Bush for high treason?
Whoring for Alex Jones's contempt for REAL
Justice? The ignorance of all American
talk radio hosts speaks for itself. NO
knowledge on why acts of high treason, are
crimes against every American. The bushmob
doctored the NIE, and Alex doesn't want
Americans to know, because if they did,
they ask, why does Alex do everything he

can to escape those personally responsible
for 911, while then asking for money to
continue his fight against freedom in
America. Again how much money do we have to
pay Ron Paul or Alex Jones before they
will allow the knowledge of the Iraq war
against Human will is criminal? How much?

Obama! feel free to call
on me to help out with a plan for judicial
actions. That offer goes out to everyone in
Palestine, Canada or Britain too. Russia,
let's help out these fools by freely
communicating, what say you? Justice
for all is freedom to be. The Israeli cop
killers must be brought to justice for war
crimes. Those cops, were cops. And I,
am a man.

Alex Jones Rocks!

Now Alex has problems in "my" mind because I am
an ACTUAL genius, and he is generally, an idiot.
Today, he did one of his usual commentaries, however
this time, he was pretty honest with himself, and
his love for Ron Paul. Ron Paul sells incompetence,
and Alex corrected correctly!. that a.. sorry Ron
but these banksters know they're robbing us as
undefended blind men essentially. That's what I'm
talking about!! Look, Ron Paul can be a dumb Ass,
although, he's still not all that bad a guy. A Dumb
guy on things like economics sure, Justice, warfare,
Health Care, Social Security, ect. ect. but still.,
like a child learning of why the sky is funny
blue, isn't all that bad a guy really. He's
certainly not a war criminal, like Bush or
Rumsfeld are. Doing 911 then sanctioning torture.
While Neocons Champion sending illiterate American
teens for death as war criminal. Think about it.
Maybe he is..

-

ï¿½We have all these documents that are now
publicly available that prove that these
methods of interrogation were intentionally
ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy
like Willie Brand "the right" to RANDOMLY kidnap
men, women, or children, and torture them to
death for sadistic pleasure with his faggot

Capt, Christopher Beiring. (I think that's how it's spelt). But anyway, this is the truth. A bushite is a godless Zionist whore of Nazi evil, an enemy of America, who wars YOUR Freedom with criminal "excuses", for refusing to support the arrest of those responsible for 911. A TRAITOR, and could be wannabe rapist, robber, or 911 mastermind ringleader. Torture is illegal, and warrants the death sentence, according to, Reagan's "War Crimes Act". Some only suggest, that this was why someone tried to kill him as honorable. Death to the torturers of our innocent families, torture they do without apology as Zionist Military "Judges". Instead today, where they get salaries paid in the billions by the zionist giving nation of, a-mirror-kay, echem, America. Johnny's America. A nation where Justice will rule for the favors of all treated equitably with or without you. Honor me in company my friend. We have no rivals.

"they do not understand, the private banker never covers the loan. Never does a private banker reach into it's pocket to borrow US to begin with - so as a consequence, the bankers have just pocketed all the 'free' loot for nothing, TRILLIONS, and are not saying why should they help anyone else up with charity?" Then went on to say, it wasn't any of our business with what they did with the money. (But for to cover criminal fraud in the derivatives market, where the true value of said commodities were backed by ZERO capital. ZERO DOLLARS. WORTH NOTHING. So, think about who's truly giving it always here until Johnny, the man who came out of nowhere, arrived to explain everything in five or six minutes.

Support Johnny America for Coast to Coast Radio Host!

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Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoot-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen for death by war crimes trial more like. Death to the criminal zionist enemies of Humanity. Zionists who falsely accuse without evidence to respect our rights,

like TV corporated Americans who treasonously LIE,
'bin Laden did 911'. Enemies of Freedom for our
Humanity.

[JEWISH!] Arrest warrant: Ehud Barak
http://www.wanted.org.il/ehud_barak_en.htm

/ / For violations of the Rome Statute
& 4th Geneva Convention \ \

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..
let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our
times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for

'lawless' grunts of ungodly action against
Life as we live it. Targeting school kids
deserves death sentences, don't you think this
value is what every soldier should hold proud
with Johnny in America? In Israel? In
Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

This post was passed to near everyone in our Secret
Service defending Obama. Let US demand Justice for
the Victims of 911, by warranting for the arrest of
every Neocon Nazi Zionist pirate of OUR Jewish faith
for Public trial on LYING for War Crimes against
our dying Humanity. War Crimes against God.

A ZIONIST LIAR'S TRUCE

/ / live images of an Israeli helicopter hovering
above the city and dropping its white phosphorous

bombs on the city \ \

Again, the Zionist deserves to die by public trial
today to defend the Jewish faith. Look at usenet.
These demonic enemies go, 'yeah, Hamas broke the
truce', they do it to kill you. To steal the lives
of innocent Peoples to profit off our deaths as
victim.

Zionists are Satanic Demon Liars of Satan

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed
Jews for money. They starve Jews in Israel
to attract more charitable aid they can use
elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of
the Synagogue to Satan!!

"We also need a massive overhaul in Our news channel
prioritizing, including to add censorship free, open line
public communications. Done to gain value in learning from
the art of conversations. We need still to appreciate the
values of a free society where Justice is above all, the
measure of our success to communicate openly."

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and
still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

-

The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as
evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,
are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among
our brothers and sisters. I mean for Christ's
sake Tom, THEY ADMIT to sadistically
targeting our children for MURDER - as some
kinda Satanic demon whore to Pure Evil - aka.
Wanted War Criminals for Public Trial. Just
as the Nazis were for similar outrages. Let's
hope men of America are least half they were
then, but we are suspecting, they will as of
usual, balk as cowardly slaves to the private
banker man ruling their minds, it's a, no
wonder. Where is there that purpose striving
for a greater future living in a just society?
Where is the Christ in their Christianity?
to financially support the arming of such
unlawful Zionist killings in silence against
Innocent Christians?

Free Radio International Broadcasts Alive!

Johnny Justice for Coast to Coast radio host.

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's
verdict, if none is offered as in respect
for yourself as worthy the title of free
men? I ask as your self? Or are you as
the cowards of most in the American military
who refuse to speak for the arrest of those
who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they continue
to STEAL OUR CHARITY by breaking truces. What
is it that YOU can't picture?

"The view from the other side, that the Qassams are a retaliation for the siege that starves the one and a half million inhabitants of the Gaza Strip, [a prison death camp,] was not mentioned at all."

Masada legend galvanises Israel
http://news.bbc.co.uk/2/hi/middle_east/7830416.stm

/ / they committed collective suicide - men killing their own families, afterwards each other, until one [evil zionist liar] remained to kill himself. \ \

ISRAELI IS A THIEF WHO CAN'T SPEAK OPENLY IN DEFENSE OF OURSELVES IN OTHER WORDS? That is right. They, as documented criminal, lose every debate personally since before the dawn of Civilization because their position is clearly unsound. They are criminals who murder People in hate for a freed Humanity. They OFFICIALLY steal Peoples homes in that country didn't you know they proudly proclaim it so? And steal humanitarian aid from starving children. Targeted to murder children specifically as publicly confessed, 'it is Hamas WE blame', not them as demonic child murderers. Hideously evil as ungodly sadistic savages. Enemies of YOU, enemies of them, and enemies of me, the King of Jews Christ fellow from beyond the grave. They are so evil to God and Man, they tarnish everyone of US to not win justice sooner by blaming the actual bad guys. Justice is Freedom.

/ / Those white phosphorus shells used on the Gazans are made in the USA according to Jane's Defense. \ \

Again, these peoples are not Jews. Being Jewish is a religion. These thieves of God are Satanic in their LIES to betray the common trust in our words, that bind all worlds to victory, called freedom universal. Even tales of the Devil have him keep his word, with verses specifically condemning the self to damnation for targeting the innocent for death. God's the Word. Every word inside a fool's paradise. Including the periods. Not as like, I'm playing a word game, but that it in wonder, is all strangely here. Example: The Universe as it has existed always, is not separate from our 'pauses', or faulty drawn conclusions. The universe, in one sense, was

as good as anytime, created 6000 years ago.
AS TOO 50 billion. You say, impossible, I
say no, study quantum physics, and know, I
live this.. our existence is not scientifically
separate from the timeless nature of
consciousness, proven as not only theoretical,
but actual. That is a first step at developing
a REAL relationship with the living Universe
if you want to as like an artist does - that
TOO! can be just as thought static in it's
orderly constructions for Atheists. (An
Atheist is still mostly a fool here however.)
Overall, for any, it's sorta simple: Life has
left YOU in charge of YOUR fate. Now, do well
to make something of this being as eternal Life
reaching for balance, as your body does, and
good cops do when bringing the bushmobsters to
Justice. By Israeli calling for more murder
against the innocent of your mind as racists
and bigots they are openly, is still shadows
of YOUR mind, YOUR WORLD.. get it, got it? God
is in genius to set Life as this, as like,
nowhere existing, but for as yourself within.
Will you speak out for the Justice denied
Humanity?, or not you? Atheists can be Just
too!, but generally lose it on not
understanding the intelligence of order is
way beyond what they dream up with
assumptions. All anyone has to do is ask
themselves, who do you mean "God"? Atheists
are ridiculous!, but, to each his or her
own, we are on a path here, believe what
you want to believe. This is not a faith
initiative I'm bringing by keeping this real,
I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder
Jews around the world for stolen money is
seriously evil as criminal. What do you think?
Let US have a open line discussion on this
indivisible matter of rights to all as equals
before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM"
we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

ï¿½Main actions: Israel targets hospitals, United Nations premises, Press offices, theaters and densely populated buildings in west of Gaza. Additionally, people are being used as human shieldsï¿½

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed Jews by breaking truces with a prison death camp, cause look at all the free American Welfare money we can steal through kicking-back AIPAC members in Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line calls on the war crime enemy propagandist, The Chorus Radio Network. CJOB STEALS millions from Manitoba each year, and refuses all calls for honesty in governing. They are actual CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal who will be going to prison, is the only person on Earth that has publicly okayed Israeli Nazi to target murder Christian school girls. Canada, join me in demanding Harper's Public trial as a war criminal. Prison for Harper who took a honorable soldier who stated he refused to commit war crimes against innocent civilians, and placed him without trial in prison. Without warrant for arrest. Harper, the Nazi Appeaser, is a War Criminal standing against the Queen.

"Or is this another, popular amerikan past time, of, who cares for the facts, we are at war with God and Christ now?" Die bushite die Christ always says against lawless torturers as mass murdering thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest of the Judge and prosecutor for being openly evil demons, as TRUE enemies to freedom in America. But guess what? Americans will refuse to even phone Alex Jones, or George Noory

to be hung up on. Just refuse as brain dead
zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic
of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?
Like multi-millionaire Ron Paul, who gave the
fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the faggot owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty
International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting
to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.

They will rob and kill US all my INNOCENT friends
as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

Google have attacked US again as Evil doers..
They have again destroyed my writing with war
criminal intent to deny these truths as men they
could never face me, because they are not. They
STEAL our voices.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil
as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unb
alanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the
days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews
like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the
eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was
137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying

freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the
free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for

senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

-

I Want My Bailout Money by Michael Adams the Health Ranger
http://www.youtube.com/watch?v=dnT21hmlT4o

Breakdown Dead Ahead
http://www.youtube.com/watch?v=yFCnVC2C8As&feature=related

-

Simple Common Sense for Mankind

/ / Israel has admitted HAMAS kept the cease
fire; and that Israel broke it, then unleashed a
total starvation blockade on Gaza followed by
flaming death from the sky aimed at schools,
hospitals, ambulances, and children, and you
dare call the people opposed to such barbarity
a "mob?" \ \

Zionists are evil people who pretend they
are honest, when lying directly to everyone.
Blitzer reports Hammas broke the truce, he
is lying to continue the murder of innocent
peoples. Understand: Israeli Nazi state they
will continue to murder our innocent Humanity
until the rockets stop falling on Jews. Yet,
they broke the truce, and murder Jews routinely
with reckless abandon. Jews from the Bible as
of "nigger" Ethiopian, are what the Zionist
hate when warring GOD for apartheid, apartheid
that is Humanity in Gaza. A zionist is a war
criminal who speaks not against the neocon,
but against Innocent Humanity as YOUR enemy.

Livni: Gaza truce would give Hamas legitimacy

As they always do because they are dishonorable
murderous nazi thieves of God as Just cause is.
I am, and YOU are, you just maybe don't know it
yet, or if ever. A zionist serves Satan to escape
the neocon terrorists from their ungodly crimes
on 911.

http://desertpeace.wordpress.com/2009/01/12/gazatoon-of-the-day-blaming-the-victim/

Ron Paul:
US Will Be Rightly Blamed for Israeli Killings
http://www.youtube.com/watch?v=6C756NOPyDA

Not the Nazi Israeli?

The guilty party are those who advocate these
mass murderers of innocent peoples with
deliberate lies, like from Blitzer. Blitzer
will be tried, and executed a war criminal
for stating Hamas broke the truce., Where,
only two minutes earlier, he learned, that
it was his Nazi partners. DEATH SENTENCE.
It was on TV. BUT SEE? Ron Paul, the Libertarian,
ain't going to be honest here. He'll lie cheat
and steal Humanity's voice for Justice - like
he did with OUR money. A typical Libertarian
like Alex Jones who wants to blame "socialists",
"Liberals", aka, all of innocent America.
Blitzer is war criminal, who makes his own
discussions. As is Ron. What an enemy to not
mention the truce. THINK: IT IS THE ISSUE. But
Ron plays the dummy to kill more with contempt
for Freedom. Ron Paul, the bigot, asked,
'should we be doing this'? SEE? it's not first
degree mass murders, no, according to Ron Paul,
it's argumentative that indiscriminate mass
killing is a good thing really. Remember,
Ron Paul does not support arresting those
who committed mass murder on 911 either.
Or those who STOLE TRILLIONS. Or lawless Bush,
the ACTUAL AntiChrist enemy of God. Ron Paul
will watch America die for a stolen dollar.
And Alex Jones will refuse all calls to label
him good guy like himself warring order
to our universe for it.

Israel is [NOT?] responsible for these childrens death
http://uk.youtube.com/watch?v=Y9PIZQqIep4&feature=email

Ron Paul "When we pick sides, we make it worse"

He also took our millions donated for freedom
fighting away for his family, but not our own
as dying innocent victims giving. Pick a side.

Remember: Sadistic authoritarian George Noory
is a very real DEMON of Satan, who again,
openly tells US, he wants to murder our
species as the innocent forsaken, and Alex
Jones doesn't hear a problem with that
either. Love the bushite blindly, and
they'll kill US for a dollar sukka.

Alex Jones is like the retarded brother we
can't help but love because we're human. He
is still retarded. And George Noory is still
seriously evil as a traitor to the cause of
Freedom in America. And Ron Paul is still
slamming Ron Paul.

Ron Paul "Israel can not act without
Washington's approval"

So, it is Ron's fault then by not mentioning
the truce?, or as that, innocent People are being
indiscriminately murdered in a death camp that
he figures is argumentative? that innocent
People are dying as targeted for mass genocide?
Or is it the Ron who states YOU are to blame
instead of himself for being there, not saying
anything? HEY RON! Can you hear me now!

-

Contribute to our rise for the popular will

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they STEAL OUR
CHARITY. What is it that YOU can't picture?

Hi. My name is King Johnny.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

-

/ / The targeting of civilians, whether
by Hamas or Israel, is a war crime. \ \

They are targeted by Obama who suggests
there is an argument to be made here. There
isn't. Nazi Israeli DEMON LIARS broke the
truce to kill Jews for money. They are godless
enemies of Humanity. So it isn't that we are
pro-Palestinian, it is that we are pro-Human.
Zionists DESERVE to die, before US, the innocent,
they target for murder for stolen cash gain.
Like Obama has promised to do for AIPAC. But
what about the rest of US 6 billion plus Obama?
Who is it of US innocent folks do you wish to
MURDER, or torture next as a Zionist war criminal

for Satan Obama? Torturing kids is popular in
Israel, tell US Obama, which American father will
have his children tortured, or murdered
sadistically by yourself as a whore for Nazi
Israeli? tell us, we're not waiting.

The Chosen Bad Example

Zionists Destroy Our Homes as Satanic
http://www.youtube.com/watch?v=mo2HW4T7wK4&feature=related

When I see the women and her child, left outside
while they sadistically destroy her meager gains,
I grow weary with ourselves for not speaking right.
Nazi Israeli are committed to deny US our God given
rights as Innocent persons to speak freely for Justice
realized. All because they STEAL our Lives for monetary
gain. It is our reality, give it or take it, YOU LOSE.

Then.. Hammurabi founded Civilization.

I go concerned for any hesitations of condemnation by
Obama. It's like, he's talking some jive about
how now he'll NOT let the words of Hamas reach
his ears. Being against war criminals, doesn't make
you pro-Hamas, necessarily, it means your against
war crimes to defend the lives of ourselves respected.
Remember: He told US earlier during the campaign that
he wouldn't fear speaking to anyone, Hamas especially,
because he was confident he could win the discussion on
Liberty, by principles that unite all free men. Now,
he has promised the FBI's Most Wanted AIPAC, he will
pretend to not hear any calls for fairness as all
parties united by common cause. Johnny Who? Where did
you go Obama? You were here, then.. pooof! you
vanished into the loving shackles of convicted/ing
criminals is a mass, "WE ARE TRAITORS TO JUST CAUSE"
organized war crime outfit, dedicated to deceiving the
Public by lying. I am not Lying. I'm not saying I hold
his associations as a measure of himself, I am concerned
with him stating, he will not hear our cries for Justice,
as then AIPAC cheered. I was as freaked out about it as
you maybe yourself now, believing it as possible. Check it
out for yourself, and wonder, just "who" is this person
they tell us they're are going to take for as dying fools?
I mean look at what happened to what's his name, when he
sided similarly the same in error as hugely criminal? Come
on be honest with us son, "Are you on drugs?". Maybe he's
just been stressed with all of everything he is heaped
to follow on, NOT to know by Blitzer, that Israeli broke
the truce to kill more Jews for money, and, also STEAL
innocent Peoples Homes while saying, "they are God's

Chosen". Yeah, chosen for, "The Bad Example", of how
Jews are left undefended by these grave robbing war
criminal nazi forces. As the King of Jews, I call for
Public War Crimes trials of the entire bushmob as
terrorists, and their supporters for lawless tyranny.

People are Coming to Town. Justice for All Coast
to Coast radio broadcasts all, until we have secured
the neocons in a prison cell awaiting the treason trials.

We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

Nazi Israeli STEAL Peoples Homes without
apology, as a function of their SATANIC
government, while collectively bombing the
INNOCENT victims who die because of it.

Gaza 2009 - Operation Cast Lead
http://www.youtube.com/watch?v=hFEiOfLUfzY

Again, they are Satanic here because
they THREAT to tell you, yeah, Zionists
are casting the leads for the real mass
murder scenes - Justice denied Humanity.
God doesn't exist to defend yourselves
from war criminals for Satan.

War crimes trials with public executions
will commence against ever GUILTY zionist
living to lie that Hamas broke the truce,
that Georgia was attacked without provocation,
(again, CNN are not 'accidentally' conning
US here). And trials for every last living
bushite bomber, rapist, and torturer -
death to the bushite, the true traitors who
war against freedom for America, traitors who
war Innocent Humanity for the escape of the
neocon zionists.

-

Both parties cheerlead loudly for Israel's war Against Humanity
http://www.salon.com/opinion/greenwald/2009/01/08/israel/index.html

Death sentences MUST be willed by Christians for war crimes.
Death to the bushite, death to the enemies of God and Man.

-

For the Great Truths. We Stand United

/ / This option is also regarded
as a non-runner as the US would certainly veto that
suggestion. \ \

No no no no. What you do is investigate who this
the "US" person is as the GUILTY party my friends.
The facts have spoken for ourselves without contention.
And while we're at it, try to figure who that "Army
says.." person is too, we need to know who these
traitors are who hide their names backing war crimes
to continue. The Enemies of Civility, they are
enemies of US all my innocent friends, enemies of US
all.

white phosphorus shells on Gaza
http://www.youtube.com/watch?v=HPY2M6IxDRA&feature=related
listen to the inflection of voice near the end of this..
the mind of a delinquent 7 or 8 year old.. This phenomenon
is pervasive, and illustrates some cognizant short coming in
Calcium or Zinc somethings. However, IT IS THERE. Normally, as
an Expert on Psychiatry, I dismiss the whole notion of
Psychiatry as I intimately know it as pure bunk wacky,
however the study of something here is needed if we're
ever going to convince ourselves dying indiscriminately
this way sucks. As the innocent for profit we pay for,
with lies sold without Public defense of mass murdering
demon traitors to the cause of US falling victims. God
says their Satanic, I just say they are criminals. War
criminals easily convicted for murdering our loved families.
They have no remorse for all that have been murdered
already.. Livini should be on her knees begging our
forgiveness, but she's not because she couldn't care
less for any Jews, especially those she don't have
imprisoned under threat in Israeli 'society'.

It's a 'bad' thing. nnNo.

Israel bomb attack Gaza Civils Palestinians 27/12/2008 launches
missile attacks on 27 Dec 08
http://www.youtube.com/watch?v=tQLDBujnwEE&feature=related

This was what Israeli did as a legitimate murder
scene, committed after the Nazi Israeli Jew HATERS
broke the truce. More dead Jews, more money to be
rich with. and we'll blame it on that God nonsense.
We must demand war crimes trials from Obama, and
everyone else down there who is appalled at this
indiscriminate mass murder continuing in your name.
We need arrests of Zionist infiltrators within
the American military who have been shipping
weapons to nazi Israeli to murder more defenseless
innocent People as targeted. Obama must demand
death sentences against these ungodly Zionist

vermins for treason, warranting execution for the
war crimes of accessory to mass murder, or genocide.
For the Great Truths. We Stand United.

-

Here on a Mission

/ / after dropping leaflets warning residents it was
about to "escalate" its offensive against Hamas. \ \

SEE! This is AFTER fire bombing the whole community.
Satanic evil enemies of Life. Who admit to targeting
any one who has ever so much as swept our streets,
warranting bombs dropped on their Block(s). SEE! they
are ENEMIES OF EVERYONE. EVERY LAST ONE OF US.
INCLUDING GOD.

Riddle me Dumb

Hamas Workers and/or Troops? Out hiding in the mountains
of Afghanistan you mean right? Satanic enemies of all
Humanity I tell you. The most evil nazi sons-of-bitches
who openly advocate tyranny and oppression through mass
murder of ourselves as the innocent left targeted
defenseless. Enemies of Jews everywhere, the Zionist
cares not for facts on who's Life it destroys for stolen
gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.
It's a prison death camp, brought about by Israeli STEALING
OUR Homes as ungodly thieves. Thieves who leave a Jew
to starve to death in a garbage dump because, it'll
attract more charitable aid The Zionist can use
elsewhere. It's not a Jewish thing, it's a criminal
matter. They STEAL innocent Peoples Homes in that
country. God's Country? God would will such criminal
offense? Which God? Not the God of Abraham, nor by
the teachings of Hillel, Christ, Mohammad, or
Confusion? So which absent God do you speak where WE
can't speak as ourselves openly for Just Cause?
Cat got your tongue? How come your not saying anything?
The Israeli Zionist ENEMY wants US ALL in slave
labor prison death camps silenced away that's why!

Israeli War Crimes
http://bothwell.typepad.com/whos_your_nanny/2009/01/israeli-war-crimes.html

Well, maybe I'm wronger on Ron Paul than I needed to.
Hey, don't you EVER forget, I am a man also. We need
to meet on common grounds, to demand the start of
formal arrests for the bushmob crimes of 911, Iraq,
Afghanistan, South Osettia, and Palestine, as a group
together united by agreement for this one cause, and

then... we can later argue about how your ideas are
better than mine because I actually know of which
your speaking.. Hey! you could call me Daddio if you
wanted! To the telephones we go.

-

Israeli are attacking prisoners held criminally
in their own Death Camps!! GET ALEX JONES ON THIS!

Hmm... why wouldn't Alex? to support his fictions
over Our Rights to Live Free perhaps? A Hero adapting
to the deaths scene?, or, a Bush whore committed to
enslaving Humanity, all so he can say, he told US so.
Big hero or big hero. Your NOT powerless to his vision
of complete control over information. He refuses 911
info, Iraq war info, Israeli info. All so he doesn't
have to look the fool, while Humanity dies with his
insults against our wills to make something better
of ourselves. Justice is what I will. Masturbate on
your own time Mr. Alex Jones.

If he states again about how he knows everything,
and is always right, and those that criticize
him on ANYTHING are delusional, it's going about to
make everyone further sick with this obscene take on
what life means as Alex takes it. If I truly state
two nickels make a dime, does that mean therefor
they make a quarter also? If I say so like Alex
would? He is an idiot. Truly. George Noory figures
Hamas broke the truce, and that the Mideast solution
is that Jews should be separated with special rights,
as oppressors over the freedom of every Palestinian
Prisoner, and what's Alex Jones gonna say about
his 'truth telling freedom fighter' George to actual
'lame ass evil nazi traitor' George?, to YOU about
how George is just trying to murder millions of
helpless people as an offer for the final solution?
We can expect Alex now to claim, Zionists should
have special rights over Jews, all to maintain
his FICTIONS on Noory being anything but the
monster to Humanity he is. Just because Noory
doesn't growl when talking about murdering all
children in around the age of 15, or against
soldiers who refuse criminal orders, does still
make him a true fascist nazi enemy laughing at
your murderers escaping to live freedom in
our dying forsaken worlds. The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know

these FACTS that demands arrests of the culprits responsible for high treason against Johnny's America. Now, who's with yourself. I am! I am! I am!

Alex Jones doesn't know squat of Social Security, but pretends he does, like Ron Paul does when speaking of the Federal Reserve, Health Care, IMF, World Bank blahblahblah.. I mean even the expert of experts Alex has on near twice a week, EVERY WEEK, to talk all about how the Illuminati are doing everything,(give me your money now for whatever), DOESN'T SAY TO KNOW, it was Chris Cox who changed Investment Banker rules, to cover instead one tenth of WORLD INCOME loans, to one twentieth. MORE THAN DOUBLING THE ENTIRE GLOBAL MARKET FOR LOOTING WITH HIS SIGNATURE! (And. that isn't even a fifth of the TRUE trillions dollar fraud story.!) Now, granted, I wouldn't expect one tenth of one percent of America to have even a distant clue of which I am speaking, but importantly, Alex's expert of experts has never mentioned it. EVER. Why? He don't give a fuck, but how much money he can get you to give him for investing in things that are un-important to our struggles, but for the fact, he states, you'll get free money for nothing!! OUR ACTUAL PROBLEM. It reminds me of those Ron Paul dollars... where Ron'll fix everything, cause we, as a private company, are going to make YOUR money instead... holy fuk mon.. Talk about the kettle calling American racists. Thank God the FBI stepped in. (The answer unfortunately is not nowhere as easy as Alex would blindly lead you) - again, so I guess it will be, Americans were just too far gone as illiterate chauvinists, who cared too little for your freedom as themselves degenerating. Why? To battle tyranny they knew not Justice wins the day, and blamed innocent groups gathered wherever, instead of following the crime scene leads at the real murder scenes - like was once done on TV and at the Movies. But even that was too far above their doped down heads, to raise their finger to dial a phone number.

How about stating "A lawless bushite enemy wars America as a traitor, to escape the neocons from the crimes of 911."

Then Alex states the head of GCN is giving out gold at less than it's value as a special treat, every second or third week. Below wholesale. Now, really think this thru. Do you think Alex is trying to con you here? you bet. That is the Gold Racket. Diamonds are another thing - where I've personally seen, about a decade ago, a huge press that makes Diamonds

out of coal. Swear to God it's true. Costs to make diamonds are pennies to the thousands paid to Zionists who live in Israel calling for the murder of all innocent Peoples. Where is the rich Zionist, grave robbing Jew hater to demand Justice for our times? Where? Pressing coal into diamonds, while advocating the murder of our entire Human species. THEY WANT TO KILL GOD AS SATANIC ENEMIES OF LIFE. While I am last known to Life's enemies as Jesus Christ, the Zionist's end every time. I'll have brought more Zionists to their rightful dooms, than any other, of any time, anywhere. I HATE Zionist bushite LIARS to death, all because I Love Humanity too much, to watch US die undefended as the innocent forsaken. They can change their evil ways, but till now, often not, benefiting off our suffering as war criminals who simply lie as demons to steal our Human values. Let's change this for our betterments. I mean the Halo is a dead give away..

The head of GCN has a son warring God to rape American women as lawless enemy in Iraq for the Neocon - again NEVER mentioned as something worth fighting against for Freedom in America - soldiers are suppose to REFUSE criminal orders - but not when Alex is at the mike. He will never mention the Bushmob doctoring the NIE to con America for death as exampled, because it doesn't fit his fictions, where all the bad guys escape because they are geniuses headed by secrets so powerful, nobody can ever know'em, except Alex. He tells us near every day, he knows everything already, and is never wrong, therefore you can't criticize him. Bullshit. It's like he wants to be wise like Johnny Gawd is, without doing anything like studying for a test where the teacher actually does know the issues. He told US today, the British came up with concentration camps, from the Indians - who spent all their lives murdering themselves. The British 'invented' false imprisonment? The British came up with the, Jews Killed Jesus? The British invented Pope Gregory VII? I suppose Alex has never heard of Ghettos. SEE? he just pulls shit out of his ass, and calls it like it's truly pure gold you'd wanna buy. Those, like your typical American have no clues, so they figure, Life must be sorta so that History is all one big Alex Jones NWO cartoon. What? that the NWO did 911, and everything else that use to instead, require criminal investigations to nab the actual evil doers? Alex Jones IS the NWO he tells US all we should be concerned about never stopping,

like it was in the DARK AGES. Justice Alex, why is
that hard for you as a "Conservative" to figure? Is
it because you are cowardly in the face of true
Liberty? Afraid that some People, on some Issues,
ACTUALLY know a great deal better than you could
even imagine presently? Don't like that do you?, where
you don't rule this Universe as a lawless tyrant
desperate to live in an illusion at the expense of
everyone else dying victims to censorship? Does he try
to find wise men or women? rarely. "Ron Paul [MUST]
leads our truth movement" - like, fuck off already
with the Ron Paul, The Truther, Bullshit Alex Jones.
1% is what YOU get on Social Security deposits - 1%.
And.. Bush stole 700 billion. 700. Billion. That's 700
BILLION. It's a "Trust" account. A "Trust" Account. It's
being held in "Trust" Alex. Ron Paul is asleep at the
wheel. As, so are the rest of all you other fools..
I want Justice, and I want it now for all the victims
of 911. Americans be damned, we want Justice, and We
want it Now.

In Texas, child rapists are given the right to
freely move about without fear that Texans will stand
as armed Men in defense of their very own offspring.
And Alex wants this for the rest of America. That some
how to own a gun, means an American would kill a cop
who beat a women near to death for pleasures that
he could never be Publicly arrested for, as a
sadistically evil nazi bushite fuck. Look, if YOU DID
kill that particular DEMON COP after the Chief
refused to arrest him, you couldn't possibly go to
jail in Johnny's America, because the truth would win
out in a fair verdict. And REAL cops would honor you
with great big, thank you. Nothing worse than a
cop (or bushite grunter) who believes the Law doesn't
apply to him while he drives drunk, tazers someone for
nothing, abuses Women, or kids, to sell drugs, or
kills good cops, who are good men. (Like mercs do in
Iraq officially for Rumsfeld's P2OG. Coming to an
American city near you!)

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

"Rice says it is 'hard' for Israel to spare civilians in Gaza"

We KNOW they are ONLY targeting innocent People,
the ungodly zionist Satanic enemies say so..

"Israel Rejected Hamas Cease-Fire Offer in December"

Livni has declared her country "is not going to show restraint"

"Her" country?

It's like she's admitting here, that they DO NOT
target the IDF's Hamas, but only our innocent lives
as a threat to LIFE and GOD. Remember: the Zionist
LIARS broke the truce.

THIS NAZI ZIONIST FUCK BREATHES THE AIR OF US
http://www.youtube.com/watch?v=lMxfEsooM5M&NR=1

/ / So, Hamas decides it's time to end the
cease fire and has begun shelling Israel again. \ \

This guy even sounds like the Satanic false
accusing enemy of God he is. Let US, as Humanity,
hunt these real devils down, try them, and have
them executed publicly for the benefit of God and
Man. Understand: this REAL DEMON knows he's lying,
no living man on Earth could spew the vile lies he
does to excuse indiscriminate mass murder, or starvation,
as this Zionist enemy of life sells to STEAL Your
HOME, your Family, YOUR LIFE. An open enemy of God
trying to STEAL the Title of Jew from Christ. EVIL
ENEMY OF LIFE. See, when a bushite dies, you served
Life well in defending their next INNOCENT target.
BILL HIM FOR STATING ISRAEL WAS STRUCK THOUSANDS OF
TIMES. BILL HIM FOR STATING HAMAS BROKE THE TRUCE.
BILL HIM FOR STATING bin Laden DID 911. BILL ANY
Zionist FOR THIS TREASONOUS LIE. Why God asks? Because
there isn't any evidence to support that Satanic lie.
According to the FBI. And according to God, Zionists
are not Jews, but of Satan as enemies of every life
form in this Galaxy, Hunt him down, and bill him
today for the love of God. You can 'hear' it in his
voice.. how he lies TO YOU as a DEMON of a Hatred
for Truth and Humanity. Facts, that are easily
available, are not what he works to mislead others,
others he hates, and wishes to murder for as ungodly
sadistic pleasures as YOUR enemy. Bill him under
American law for being pro-torture too while we're
at it. Death to bushite, death to the murdering
enemies of God's Love for Mankind, and enemies of
TRUE Justice for Americans. The fuking demon enemy
lies to you, as a con to STEAL your life, or just
as soon, the life of another innocent other. Now,
what are you going to do about it? Except his lies
as exceptable, as he tries his hardest blatantly
LYING to kill God and Justice in our Worlds? Not
in mine, but perhaps Yours.

' In Civil-Contempt Cases, Jail Time Can
Stretch On for Years for Americans, without Ever
seeing a day in Court. '

Where are the arrests?, then firing squads for
the Judges who 'judged' such criminality against
freedom for US, the Peoples in America?

' Where Did Taxpayer Money Go? Panel Slams Treasury
[FOR STILL REFUSING TO SAY] '

Where are the arrests?, they stole eight trillion
and counting.. And Congress 'slams' them for
disappearing OUR MONEY. Slams with what?, a,
don't do that again please butt sqeeze? It should
be massive slammer time, with a return of all
STOLEN monies.

' THEREFORE, those pro-Israel politicians in Congress
won their seats in part using stolen money. '

Where are the arrests? Amerikan bushite nazi grunts
are assisting in the mass murder of innocent Christians
in Palestine. War crimes demanding death sentences. It
isn't an argument that can be turned around. Nazi Israeli
STEAL Peoples Homes without apology, as a function of
their SATANIC government, while colectively bombing the
INNOCENT victims who die because of it. It's a prison
camp! they are denied water, food, shelter.. since four
or five truces over that they've broken, every one. These
are Satanic enemies, willing War Crimes against God,
a God NOT loved by zionist American Nazis. And a Son
as powerful as the four winds, ridiculed by Zionists,
and American know nothings, for the continued debasement
of YOUR soul worth here dying.

Israel Attacks Iran News Station

Why does not Iran DEMAND arrests, and death sentences
for these blatant war crimes against Humanity committed
by Amerikan Nazi Israeli Zionists? Along with the
perpetrators of 911? WHYWHYWHYWHY. Russians! Can you
help US out?

-

THE NAZIS SHELLED THE HOUSE WHERE THEY HELD
INNOCENT CHRISTIAN PRISONERS
http://uruknet.info/?p=m50596&hd=&size=1&l=e

Rise up for Justice American Christian, or
die innocent victim the Son of God does say.

-

Pictures of Alex Jones masturbating
"we were right about it all."

It's the NWO! The Illuminati! Not Bush, Cheney, Neocons Gone Wild, or any of many other REAL criminals, for the war criminals are just puppets to his EVIL fictions. Forget about Bush escaping.. Socialists who design traffic lights, and Liberals who will to share fairly are Alex's enemy, because he's fearful the FACTS would escape his denouncements against truth tellers. George Noory, one of the most despicable individuals on the face of our great Earth - is exactly the kinda guy he wants returned to send his wannabe Patriots nowhere but to die. What about Justice America? The bushmob doctored the NIE. TREASON. There is video of iron flowing like water from the towers, seconds prior to the collapse. Alex ain't there to help US, for that is where TRUE Patriots fight for real Justice. When WE phone with indisputable facts, on Ron Paul the bush whore sell-out for example, he lies to all (GOD), then hangs up on US. Is that the kinda freedom you think the Founding Fathers had in mind to give Your rights to speak for Alex who blames anyone but the criminals directly responsible for your funeral? The private banker never covers our loans, so why give them trillions without questions offered without answered as, never mentioned by the guy who is 'right all along on everything under the sun', and.. he 'rules the Ocean of truth' too don't you know YOU have a steak going all rotten to hell here also? You'd think Alex would take our call just for the challenge on where we stand? I'm free!

He is not. And George Noory tells us openly, he's into killing innocent kids for profit. George's profit is that apparently, by murdering all children in around the age of 15, will stop them from getting a clue at anytime in the future, to take him out as an ENEMY of EVERYONE for censoring our cries for Justice. Why is it that Alex would invite obstructionist, Steve Quail, or Alan Watt, on to lead you nowhere while they jerk off, but where we gotta go to actually defend ourselves? Steve has been on with Noory more than a hundred times, and, we'd figure, Alex will soon be delving into the Alien questions also. Answerable by me in seconds, but ahhh.. like Noory, doesn't want the truth of such a subject uttered,

just endless streams of illiterate bushite dumfuk
losers sucking on each other. While they wrest
from US the wonder; just why we can't stop
criminals from robbing ourselves, while murdering
our families? Alex wants to blame the unstoppable
NWO, while I, want to blame those actually
responsible, like Bush and the proven treasonous,
Neocon terorist liars who are pro-torture.
With arrest warrants. All of them. I'll do it for
Reagan's, War Crimes Act, as an act of respect
for my Great America, that's isn't always been
dying dead wrong under the leaderships of
criminals.

Israel hits Gaza after UN truce resolution

/ / AP Israel and Hamas responded to a UN peace
demand by hammering away at each other with bombs \ \

The IDF's Hamas is hammering away with what at who?
Is the AP referring to the tin can rockets that
travel usually several miles, but in one case,
22 miles? To kill a Jew standing outside in his
yard, thinking on how he would defeat true evil in
his time? Tin can rockets that contain no explosive
charge? Have no mistake, if it hits you in the head,
your dead, but really, what do you think the odds
are on that? E=mcï¿½. Or is this another, amerikan
past time, of, who cares for the facts, we are at
war with God and Christ now? Joe is an American Zionist
"Plumber", who has amassed a multi-million dollar
fortune in the competitive industry by shit eating.
Every bushite death is a mercy given to God in defense
of all that is right and Just in this Universe. A
lawless bushite enemy wars America as a traitor to
escape the neocons from the crimes of 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Now or Never - One Peoples Rise to Power

J. Wizard "The fact that Bush gave you zero evidence can not be
denied"

http://cleveland.indymedia.org/uploads/2008/03/now-or-never.mp3
http://baltimore.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/03/now-or-never.mp3
http://newmexico.indymedia.org/uploads/2008/03/now-or-never.mp3
https://israel.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://www.indybay.org/uploads/2008/03/17/now-or-never.mp3
http://la.indymedia.org/uploads/2008/03/now-or-never.mp3

http://neworleans.media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://indymedia.nl/media/2008/03//50997.mp3
http://newjersey.indymedia.org/media/2008/03//20791.mp3
http://boston.indymedia.org/usermedia/audio/11/Now-or-Never.mp3
http://houston.indymedia.org/uploads/2008/02/now-or-never.mp3
http://imctj.espora.org/uploads/2008/02/now-or-never.mp3
http://argentina.indymedia.org/uploads/2008/03/now-or-never.mp3
http://canarias.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://istanbul.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indymedia.ie/attachments/feb2008/nowornever.mp3
http://media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://www.stlimc.org/usermedia/audio/10/now-or-never.mp3
http://peru.indymedia.org/uploads/2008/02/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indybay.org/uploads/2008/02/13/now-or-never.mp3
http://imctj.espora.org/uploads/2008/03/now-or-never.mp3

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Traitors to the Cause

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

UN: Israel Admits Claims About Attacked School Baseless

US military re-supplying Israel with ammunition through Greece

House and Senate Compete To See Who Can be Most Pro-Israel

This warrants the Death Sentence to Republicans
who have committed America to these war crimes
- DEATH SENTENCES. Christ DEMANDS these trials
to start tonight on America's Coast to Coast
radio program. It's called first degree mass
murder.

Israel broke the truce on Nov. 4th, yet state they
will continue to murder Humanity indiscriminately
until a truce can be found that they will break,
as always, Being the Satanic enemies of God and Man
according to the Bible:

The Bible "I know the blasphemy of them which say
they are Jews, and are not, but are the synagogue of
Satan."

/ / UN Call for investigation into shelling of
Civilian shelter \ \

Investigate that evil does exist in the thieving
LIAR name of godless Zionism? The enemies of God
and Jews everywhere?

-

Freedom Granted by Americans for Neocon Liberators

"Americans are having their heads velcroed to chairs
and forced to take in nutritional supplements by a
tube forcibly inserted through their noses by US guards."

These are People not charged with any criminal
offense don't forget. Die bushite die you know is
what I recommend, as does Reagan. A dead bushite
means you've saved the life of their next victim,
an Innocent Human Being guilty of no crimes. The
war criminal enemy is the bushite, the Zionist,
the LIAR neocon traitor to Life as this Universe,
along with every dumfuk grunt who serves tyranny
for the bushmob at Guantanamo, Iraq, or Afghanistan.
It is a soldier's oath to obey lawful orders only,
but Cheney they don't take out with American Law -
how come? cowardly fascist nazi whores for Zionism's
evil as the ungodly that's why. Cowards dying for
the escape of the Neocons from the 911 scene as
reported publicly. - Vs. US. That's we whoever
you are.

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever. The neoCON LIARS are the LIARS conning
you here on our TVs and Radio dramas, in where, they
don't want to openly take our public calls for real
Justice. Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression. So,
them being "puppets" is even all the reason more to
insist in their capture for trial by Jury. A Public
Jury of our Peers. Now, who's in with You? You can
count me in. and I bet willed to action, we will find
others to be something of ourselves too.. Justice
and Liberty for All. Equal rights given is what true
freedom is as measured. Translated from the 'Alien'
dialectic to Amereeze jank vibe; where is the fucking
evidence here Neocon traitors who false accuse to lead
us off the straight and narrow? It leads to Bush,
Cheney, Rumsfeld, and Condi that's why I figure, you
figure, they figure, we figure, so... what are WE
going to do about this sacrificing for godless tyranny
further then as unrepresented?

Gaza Mosque Struck as Targeted by Israel Air Force 1 Jan. 2009
(Why so you may wonder they've had this string going
now where a secondary something, then there! that proves
something absolutely apparently, without the intellect
to fairly judge anything, particularly themselves honestly
as dishonorable thieves and murderers, targeting prisoners
held hostage to their own camps. Death camps. Nazis are
they.

Humans for Coast to Coast Radio Hosts as Frequent
contributers to the mention of Justice by name. Your
Rights, Your Word, Your Future, Your Life, This World.
Join me in proclaiming victory over the enslavement
of Humanity, through Justice realized as practiced.

If Americans Knew What Israel Is Doing! VIDEO WAS CENSORED!
http://www.youtube.com/watch?v=ynWjYHP91gA&feature=channel

Views: 1,212,890

Israel Facts the Media Isn't Telling You
http://www.youtube.com/watch?v=QKq38COoTG8&feature=related

Views: 358,960

Maybe we know it, but we just don't know it yet?

-

Israel Attacks Jews,
Silence from Mainstream about Violation of Law
http://www.youtube.com/watch?v=K1kt8qi0M-M

They kill Jews for money. They bombed Jews in Lebanon
for money. They want to bomb the HUGE sacred Jewish
communities in Iran.. wonder why? Zionists are not
Jews, for Jews don't steal in God's good name. Nor
target innocent beings for stolen gains. A zionist is
a thief to life, and as such, needs to be formally
charged for their criminal offenses, given lawyers,
and upon a successful prosecution, rot in a prison
cell and/or pay restitutions. YES. why? so not another
innocent person must fall in their place as next
victim to a zionist's public commitment to lawless
tyranny for evil intentions.

Johnny for Coast to Coast Radio Host

-

Israel Phones 'Terrorists' Before they Bomb Homes
http://www.youtube.com/watch?v=K5wrwZlwAq8&feature=channel

Didn't the Nazis say something like, they weren't
there to take out Hamas directly? Well, after all,

it was founded by the Zionist IDF, so I guess that
must be why they target our children instead..

UN: "Israel knew they were bombing a school"
http://uk.youtube.com/watch?v=uWP0GU0wVSk

/ / The hospital, and other smaller hospitals and
clinics were previously shelled by the Israeli
warplanes and tanks, stressed Hassanein. He
also denied Israeli claims that medicine and
medical supplies had arrived to Gaza hospitals. \ \

The Zionist is a thief of Life as our enemy.

IDF VLOG UPDATE: IDF Hits Dozens of Hamas Terrorists
- Capt. Benjamin Rutland - 4 Jan. 2009
http://www.youtube.com/watch?v=q9Jt-pV5wuM&feature=related

This Zionist enemy of God speaks like a six year old.
"Hamas Terrorists", "4. Jan.", come on now, how evil
do you have to be to believe this ungodly demon sells
you righteousness. They STEAL our food. They are OUR
criminal enemies who torture innocent Peoples. A
godless criminal enemy who also steals Peoples Homes.
And drops millions of land mines to murder Jews
indiscriminately for decades. Commits war crime after
war crime against Humanity. Vile bile.

They killed our innocents, and unless we kill
theirs, they will go on killing ours.ï¿½

It is the crime of which they demand WE are outraged
against. Welcome to Humanity's suffering world due to
lacking communications skill. The term "they" are
referring to is YOU. Your innocent life Israeli
intend TO STEAL, TO MURDER, TO ROB YOU Your rights
here granted by God. These are ungodly acts of mass
murder, perpetrated by enemies of Life. They targeted
a UN Girl School for Christ's sakes. please fight back
by supporting my calls for open international dialog.
Justice must win our Freedoms back, for there is no
other lazy TV'ed ass, pop a pill to make it all go
away, plan 'b'. Look at me! I'm not crazhey! We can
handle this no prob.. I'm a perfect King for these
times of wonder and horror. equal rights are found
through open communications for a measured Justice
we do contain. Evil is the deceived disguised. And
i am a god... on a mission.. Ladies?

-

The Appropriate Response To Islamic Terror
http://revisionistreview.blogspot.com/2008/12/judaic-columnist-urges-kill-muslims.html

/ / an Orthodox Jewish Russian immigrant \ \

Let US never forget, the Zionists also would bomb
some locations, then later, drop the warnings
for the Jews to run for their lives. Didn't warn
them though if they get into a car or truck they would
be destroyed instantly by the Zionist flying the
America paid for Apache. I did a big show of shows
through that continued as, more 'un-resolved' crime
scenes perpetrated by the treasonous, neocon Zionist
terror merchants. It's like they think some dying
fools are going to keep going to save'em in the end
from ourselves as still suffering in Justice denied
as enslaving into ungodly tyranny eh? These Zionists
are not only the bad guys, but they're bad guys to
even the bad guys as there is no found honor among
murderous thieves. A Zionist will kill a Zionist for
a stolen nickel, as do bushites today. Hey! it's only
Your Life in the balance. Or are you one of those
who goes in America, it's okay, we're only murdering
innocent folks who don't live in Israel.

Doing what's right and just, or evil as dumb is
Your riddle. Get back to US on that.

We need People are Equals Power!

President and CEO of Shareware Earth Co.
King Johnny Wizard at your service me Lord.

-

/ / It is just unacceptable to apply two standards of
morality, one for Jews and another for non-Jews.
For if what Israel is doing in Gaza is right, as
Israel and her supporters maintain, then what the
Nazis did in Europe several decades ago must have
been right as well. And vice versa. \ \

The ungodly zionist enemies, are enemies of
God and Man. Don't think the NAZI Zionist like
Bolton doesn't know this, with his friends at
FoxNews.They WANT to rape, murder, and pillage
America all her freedoms for the bounties of
private banker frauds. The banker does not
ever cover our loans, we do. So, why give them
trillions of American worker waged dollars for
nothing?. THEY DON'T COVER LOANS. See? that is
what this war against God is all about. People
of Humanity just seem to truly hate a guy like
US as wise and Just. See, people hate US, because
they can't for their lives disagree with Facts.
Why won't YOU support these same rights and

champion our demands for open communications.
Johnny for Coast to Coast radio host.

US Again Stops UN Call for Gaza Truce

Who is this the "US" person?, and let's
put him to death with Bolton and Kalilazad
for the most serious of war crimes against
OUR Humanity. Remember, Bolton was NEVER
confirmed because, the Zionist could find
no man or woman to say a single kind thing
about him. FACT.

CNN: The Nazis Broke The Ceasefire!
http://www.youtube.com/watch?v=KntmpoRXFX4

Protest pictures from around the world (not on CNN)
http://www.rys2sense.com/anti-neocons/viewtopic.php?f=11&t=16496&start=0

Remember Israeli nazis to this day, insist as
DEMONIC LIARS, Hamas broke the truce - as Hamas
is responsible when they target school girls for
slaughter. They said the UN were secretly attacking
Jews, clearly a LIE as impossible to prove because
it didn't happen. But facts are the furthest thing
away from the godless false accuser Zionist con man
or demon witch LIAR like Livini. FoxNews calls the
demon witch a Jew! ANTISEMITES.

We can witness, Americans do not have the intellect
to understand what this means. See, LIAR Nazi Israeli
broke the truce to get killed Jews for money. A
regular fair for Nazi Israeli. Now, they state they
will continue to indiscriminately murder humanity
until the tin can rockets that travel miles stop
killing Jews who hate Zionists. But importantly,
it is Israel that wants Jews to die, so they can
make off as Satanic with our stolen values. Just
like the Bush family did with Hitler, that the
Nazi Nation has no probs working gun in hand to
wipe out Jews everywhere still to this day. Again,
Nazi Israeli MURDERED JEWS in Lebanon as targeted.
And leave Jews to starve to Death in Israel for
more charitable aid they can use elsewhere. Public
knowledge not disputed by any living soul on this
planet because, the Zionist government admits freely
to this. Israeli think being Satanic is worth it,
for all the money and lives they can steal as enemies
to Christ, Hillel, Mohammad, YOU, blahblahblah.

And, as demonic thieves, they steal homes from
innocent god loving folks. US. But see the McCainiac

HATES you as being a virtuous man or women, so they call for more indiscriminate carnage against Humanity, on failed hopes, that we as God are not going to come down to hunt them to the ends of this earth, try them, and have them executed for the war crimes of Torture, Rape, and mass murders committed for the neocons escape of 911.

Joe the Plumber to cover Gaza op

/ / Wurzelbacher says he'll spend 10 days covering the fighting and explaining why Israeli forces are mounting attacks against Hamas. \ \

Don't want an intellectual who might have a clue of what is transpiring with the forces of Satan, fuk, CNN'll likely hire him also. Don't you just hate this treasonous lying nazi demon? He has no journey man's license, never did, isn't a plumber, and doesn't have the millions of dollars he claimed he did to purchase a company that would have rolled over 250,000.00 a year for himself alone plumbing. Plumbers, as good as the job is, never generate that kind of money. Who cares though, right? A Nazi liar is what Zionist's want, and that is what America gets. TV'ed Americans couldn't care much less. Evil nazi McCainiac who's sworn existence, is to con teen soldiers for death to raise the fortunes on the un-elected Neocon bushmobsters now fancies himself a teacher on the struggles against evil. It's like that faggot at anotheruntoldstory.com, who's into murdering innocent Gays, while fucking his own brothers up the ass, who runs ads everyday at GCN, tells US now, all about how evil we all are for demanding Justice. How long do you think that'll run with the Alex Jones towners still raising no concerns? It's for the money as Ron Paul would say.. Again, it is to divide ourselves from true liberty, by demonizing the innocent on our radio and tv channels. Instead of Bush, Cheney, Rumsfeld, and Condi.

http://www.liveleak.com/view?i=ab0_1231290043

http://www.kuwaittimes.net/upload/img_pict/headline9637e7.jpg

Read of the bushite in my America who call this work of Satanic enemies, a good thing they support to war terrorism for the sadistically evil liars of the neocon. Then KNOW my friends, a bushite is the enemy of every living soul on this planet. Have no love for those in the Air Force, the enemies of Man who bomb our families without excuse, but to know, they hate

US as Christ to speak free for Humanity. That DEMON George Noory was so happy last night about all the good the bankers AND CHENEY are doing for their hatred they spoke of for all Russians. SEE? not to protect America, but to kill you with their true commitment to the demonization of innocent people, all to escape the neocon terrorists. I HATE George Noory more than anyone alive in America. He is so openly evil to ourselves, that only those who wished to lie to you, (like Alex Jones does about Ron Paul), would say otherwise as bushite dumfuk enemies. Cowards committed to escaping Bush and Cheney for treason against Freedom. They doctored the NIE on Iraq, highest of war criminality. Alex Jones has never mentioned it, but for MAYBE in passing. Hey because all the bad guys are just puppets to ignore over the elites, globalists, socialists, liberals, gays maybe, Blacks, Mexicans, and anybody else smarter than NWOer Alex. Ron Paul is a coward as rarely if never has a clue of which he is speaking on.

Israeli PM says to end offensive if Gaza ends rocket attacks

Sarkozy urges Syria to press Hamas for Gaza truce

How does the ungodly get away with this obscenity? Nobody can deny Nazi Israeli broke the truce, as they always have done as Satanic for the last 60 years. Killing Jews for money is popular with the Zionist Nazis don't you know us by now? FoxNews CONNED Americans for DEATH with the unmentioned, TREASONOUS doctoring of the NIE. To kill Americans for more neocon gains, which Alex Jones never mentions either. Do Americans even care enough to raise Humanity's call? Do they demand public executions of sadistic godless Zionist torturers? as the Standing Law of America - The War Crimes Act - brought to be by Reagan - DEMANDS by the Law of America? It is the Law after all, yet, CNN, CBC, and FoxNews calls the perpetrators of the most heinous evil against Mankind, heroes. America is
a nation of godless cowards willing to die murdering innocent Christians in Israel, all for the profits of the 'magical' zionistic private bankers. Bushite grunts are now supporting the indiscriminate carnage, serving as police services forbidding any of the prisoners in Gaza from fleeing the indiscriminate slaughter. Again, as Satanic, they don't arrest the "Suspects", for what could they truly charge them with?, no instead demand we die helpless murder victims by forbidding escape, as they did in Fallujah murdering more than three hundred thousand innocent

souls. Die bushite die screams to all men on Earth from the Son of God. Will you stand for YOUR life as truly worth something here? Like lawless enemies Policing your reality will bring you more happiness and prosperity with the great truth teller HAPPY George Noory? The demon who openly confesses the will to want to murder all children in around the age of 15? Too crazy for you to face such an enemy of huge demonic origin, so, go the cowardly way like Alex Jones as sell out slave instead, to cover the demon with endless praise on his treachery to not have our fight on everyday with open calls for understanding Justice is freedom. Instead of a constant stream of bushite dumfuk enemies of Living. This isn't complicated. Or it doesn't have to be.

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce.

Alex Jones told US as a deceiver, he's been on Coast to Coast a hundred times. Not in these last eight years he hasn't. I demand Alex prove this, or be known by all far and wide a treasonous liar, trying to take US off the tracking of criminal action of his buddy, the demonic enemy LIAR George Noory. bin Laden didn't do 911, despite the facts that WE KNOW George Noory knows better of but LIES to con the American teen further for death at the profits of the un-elected bushmob. See Alex wants you to blame anyone but those directly involved in the crimes of 911, or Iraq, or those responsible for it's cover-up by Zionist propaganda. George Noory will have as invited guests whos only function there is to spread dis info as supporting more indiscriminate warfare for the escape of the neocon terrorists responsible for starting the illegal wars to begin US at. Or those whom often support torture, a war crime that only exists as irrationally held by those who's minds have only a blind hate for the indivisible rights of another innocent other. And often truly hate men and women for being Just as wise. The McCainiac Zombie video is a perfect example. When the Zombie is asked about the rights of Women, the McCainiac Zombie cried out for raping more Women. The position of authoritarian power, was only found with the bushite as oppressor, rapist, torturer, or Air Force Bomber, not liberation by freedom. The bushite McCainiac KNOWS it can't compete

openly to defend it's criminal treasonous
actions! Remember, Alex "the Conservative"
thought McCain was the choice if you had to make
one, earlier on, then changed his position,
sort of, later by calling them all puppets not
worth the effort, but .. Obama's idea's matter
not, it's that his Birth Certificate is, no war
too be fawned. Palin? who's she? McCain
firebombed Vietnam as "war hero" for France?
The Banker doesn't cover our loans? Matters
little.

Norwegian doctor: Israel intentionally targeting civilians
http://rawstory.com/news/2008/Norwegian_doctor_in_Gaza_Israel_targeting_0105.html

"All that is happening in Gaza here now is against
international law, it is against humanity and I
think it is against what it means to be a decent
person. You don't treat other people like this.
Even if you disagree with himï¿½ maybe even if you
fight with them, you don't treat civilians, children
and women like this."

Israel deliberately targeting civilians in Gaza
http://www.youtube.com/watch?v=Ev6ojm62qwA

It was almost acknowledged on CBC radio that
nazi Israelis, use the argument that a tin can
rocket traveled miles, to kill some innocent
Jew as a direct hit (likely a person who hated
godless NEOCON), all because that nazi state
has OPENLY, as PUBLIC policy, stolen water and
food including baby formula, along with a huge
list of other atrocities, to punish God and
Humanity since way back before three of four
truces. AGAIN, Nazi Israeli always, as ungodly,
break their truces. Why? Because YOU, or Christ
as any Jew's life means nothing, to all the
'free' billions they'll get from given American
worker wages. Look, Americans refuse to call
for the arrest of Bush on their national,
"truth telling" Coast to Coast radio program.
Why? Because, for one, George Noory, (Alex
Jones' best buds), has told US he's into
killing innocent kids as powerful, and that
'bin Laden did it', Is good enough for US.
You don't get a say here however how you will
live or die. George Noory calls all grunts
heroes, and those who refuse criminal orders,
those he wishes to go ballistic on. Yes, it's
true, George Noory is still alive and happy

as ever.

Rise Up for innocent Life, or don't and see
where it'll get you in the end.

Again, every soldier in the Air Force serving
for the neocon liar is a traitor warranting death,
to save the lives of their next innocent victims.
They have murdered more than two million people
in Iraq. They are pushing heroin into America
from Afghanistan. They are raping AMERICAN
women as officially "LAWLESS" (can't be arrested
but through Rumsfeld - who has not seeked any
prosecutions for the raping of American Peoples.
He, as Neocon, is TRYING to DESTROY FREEDOM
For all Americans in America - while paying
with American wages, South African death squads
to murder Black men) and TV'ed Americans refuse
to speak for Justice denied themselves. Zionist
amerikans only see US as innocent others, not
themselves to pay, but they do pay, they will pay.
God, nor John will not live in a world where
bushite grunts walk freely down our streets as
first degree mass murdering rapists, torturers,
and thieves. Celebrated by CNN, CBC, and FoxNews.
Especially when they DEMAND they have greater
rights than Human Beings. Mass Murderers deserve
immediate death sentence to defend ourselves
from their demon lies and betrayals to God and
Man. Every CBC and CNN reporter who reported
Russia attacked Georgia unprovoked will warrant
trial, then death sentences for their total
commitment to the Satanic NeoCON enemy war
criminals. Remember: they targeted for murder,
helpless innocent families. YOUR family. CNN
wants you to blindly believe, CNN personalities
like ENEMY George Noory are so happy, why would
we think they willed death against our great
Humanity by conning you for more stolen money
through the sacrifice of YOUR life for zionist
criminals who laugh at your powerlessness to
raise your voice for Justice.

-

Stealing the Title of Jew from Christ:

Fallujah by the Sea: Aping America, Israel Unleashes Chemical Weapons
in Gaza
http://uruknet.info/?p=m50412&hd=&size=1&l=e

Look at this picture of nazis indiscriminately slaughtering
our Humanity, while on MSNBC they reported that the Nazis
will continue to murder Humanity until a truce can be found,
A truce that the Satanic enemies of God will naturally break,
as they ALWAYS do. They are godless enemies of Life who wish
to steal the Title of Jew from Christ. They targeted Jews in
Lebanon with seven million land mines, and let Jews starve to
death in Israel for more charitable aid they can steal from
G-d's Good Will. When asked by Israeli newspapers why, it was
said to kill a Jew is rewarding for the godless Zionist.
Public record. Die bushite die.

http://lataan.blogspot.com/2009/01/israeli-zionists-guilty-of-deliberately.html

/ / In doing so, this makes Israel guilty of using
its own people as ï¿½victimsï¿½ for political purposes. \ \

-

What Israel Does Not want God or Humanity to See
http://www.kawther.info/wpr/2009/01/04/what-israel-does-not-want-you-to-see

Look at the comments from bushite grunts glorifing
in this indiscriminate slaughter of Innocent Human
Beings. Evil enemies of God do breath our air.
Die bushite die.

Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus!

LEAKED: graphic, uncensored video shows carnage in Gaza
http://rawstory.com/news/2008/Leaked_graphic_video_shows_carnage_in_0104.html

Zionist Enemies of The Jew do not Care for The Truth
http://video.google.com/videosearch?hl=en&hs=0hK&resnum=0&q=911+missing+links&um=1&ie=UTF-
8&sa=X&oi=video_result_group&resnum=4&ct=title#
Zionist Enemies of The Jew do not Care for The Truth
-

FBI E-Mail Says Bush Authorized Abuse of Iraqi Detainees
http://uruknet.info/?p=m50369&hd=&size=1&l=e

-

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

Israel or Hamas who broke the truce
http://www.youtube.com/watch?v=KUfgULhac8c

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

-

a-mother-from-gaza.blogspot.com

This web site is the winner of greatest interest internet site of the years 2000s.

Israeli plan to topple Hamas, re-instate Abbas
http://a-mother-from-gaza.blogspot.com/

/ / Breaking the truce Nov. 4, then, was Israel's way of getting the gears rolling for this whole sick game: the toppling of Hamas, and the re-instating of the impotent Abbas into Gaza so the "peace process" can remain forever in formaldehyde, to quote wiseass, er., Weisglass. \ \

Nov 4th! - perfect!. We are dealing with Nazi war criminals who refuse US, as a Species, Justice for everyone. Especially The Jew's Jew, Johnny America. Hint: they call us Love just to hide our complete agreement with this Living Universe to will Justice for God as every last bushite zionist freely moving. Once all the neocon zionists are rotting in a prison cell, or formally executed as godless war criminals, we all will have one joyous welcome in a heavenly future.. Until then, demand Justice for US. That's YOU too. Angels included. Who? I don't see no Johnny Wizard here anywhere, We are Good to Go. Rise Up for innocent Life, or don't and see where it'll get you in the end. The bushmob are traitors for closing official FBI investigations into 911, immediately after the mass murder of Americans occurred. Treason, of a, trust WE don't have it in US to stand for our common values as the Revolution will not be televised, Johnny Who. Man, are we or no? Be Somebody, then get on your phone to call in for Justice willed. Alive I Say! - this must be where you'd raise the dead and dying.. if you only could raise your finger to dial the phone numbers - well guess what? - I Command You Can! - snapoutofit - Speak for pursuing Justice on 911, and show serious concern for publicly paying private banker men trillions in worker wages for nothing. This is seriously disturbing, yes, but seriously important to address openly in our spaces to remedy with a Johnny Wizard World Wide Work of Wonder, Super CNN Special of Specials, with Your Host, the One and Only, President and CEO of Shareware Earth Co. John Himself. Hey everybody! Wow eh? So a.. when is the good guys showing up? Now. Justice. I want US to Host Coast to Coast for open Public communications, where things get solved because we know whats we're learning about. We of god, this way comes, then men and women with calculators to know: giving money to private bankers

on hopes they'll lend a small fraction some back
to ourselves at high interest is dumber than rocks.

1030. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 08:54:03 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <qTJgUOJrO+kJFwaN@g3ohx.demon.co.uk>
Source record: 17654

In message <U_idnVbqOI-_JA7UnZ2dnUVZ_uSdnZ2d@posted.easystreetonline>,
Roy Lewallen <w7el@eznec.com> writes
>JIMMIE wrote:
>> Ive see the center conductor of RG214 dissolved through with RTV.
>>The
>> corrosion on the associated Al/Cu joint was likewise disgusting.
>> Jimmie
>
>And I've used the acetic acid-curing variety many times on bare copper
>(wire and PC board traces) and aluminum, and not a hint of corrosion
>when it was cut off long after. Besides the wide variety of
>formulations, there may be other factors at work causing the
>corrosiveness to vary so much.
>
>Roy Lewallen, W7EL

I think you've been lucky (or are maybe mistaken about it being
acid-curing).

I have used silicone grease, but WD40 is more-readily available. It also
wets better, and creeps into the hidden nooks and crannies. I give
everything a good dowsing before and after assembly, assemble, wipe off
the surplus WD40, and seal with stretched self-amalgamating tape. Such
assemblies from over 30 years ago give every indication of lasting until
I am no longer in a position to be interested in amateur radio.
--
Ian

1031. Velocity Factor #2

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 14:30:55 UTC
From: Howard Kowall <hkowall@shaw.ca>
Message-ID: <AoWkl.53$vq1.37@newsfe08.iad>
Source record: 17655

Hello All
Little scared here to post now about Velocity Factor (hihi)
I have all the parts I need to build the
EZ-Lindenblad Antenna For 2 MTRS

so I will build it and let you all know how I make out,the only test equipment I have is a MFJ 259 analyzer,and my good all trusty ears.I am very interested in the DCA antenna but I wont look at it until my antenna is built.Please all lets have some fun with this post and a learning and exercise.

Thanks to Everyone who posted

all the postings where very informative

Howard

VE4ISP

1032. Re: Velocity Factor #2

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 14:44:54 UTC
From: Howard Kowall <hkowall@shaw.ca>
Message-ID: <JBWkl.55$vq1.10@newsfe08.iad>
Source record: 17656

Also I am providing a link to the Antenna I am building
So you can read the actual authors instructions and theory
thanks
Howard
www.arrl.org/qst/2007/08/monteiro.pdf

"Howard Kowall" <hkowall@shaw.ca> wrote in message
news:AoWkl.53$vq1.37@newsfe08.iad...
> Hello All
> Little scared here to post now about Velocity Factor (hihi)
> I have all the parts I need to build the
> EZ-Lindenblad Antenna For 2 MTRS
>
> so I will build it and let you all know how I make out,the only test
> equipment I have is a MFJ 259 analyzer,and my good all trusty ears.I am
> very interested in the DCA antenna but I wont look at it until my antenna
> is built.Please all lets have some fun with this post and a learning and
> exercise.
>
> Thanks to Everyone who posted
>
> all the postings where very informative
>
> Howard
>
> VE4ISP
>
>

1033. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 14:52:32 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <QIWkl.450$g31.151@nwrddc01.gnilink.net>
Source record: 17657

"dave" <dave@dave.dave> wrote in message
news:btOdnai7Vv5XSw_UnZ2dnUVZ_szinZ2d@earthlink.com...
> Roy Lewallen wrote:
>> Dr. Barry L. Ornitz wrote:
>>> "Spin" <noemail@alone.invalid> wrote in message
>>> news:iStkl.133$g31.106@nwrddc01.gnilink.net...
>>>> What about contact cement? What i have states it is a
>>>> "polychlor{o}prene-based contact cement.
>>>
>>> The strongly polar chlorine atom in the polymer backbone or
>>> polychloroprene will make your cement lossy at radio frequencies.
>>
>> And it would be terribly sticky and attract dirt and everything else.
>>
>> Roy Lewallen, W7EL
>
> Did anybody mention wax?

Yes.

1034. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 20:30:13 UTC
From: dplatt@radagast.org
Message-ID: <lfde66-vug.ln1@radagast.org>
Source record: 17659

In article <qTJgUOJrO+kJFwaN@g3ohx.demon.co.uk>,
Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>I have used silicone grease, but WD40 is more-readily available. It also
>wets better, and creeps into the hidden nooks and crannies. I give
>everything a good dowsing before and after assembly,

Wouldn't that tend to *increase* water infiltration rather than reduce
it?

>>grin<<

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1035. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 21:01:39 UTC
From: kb9rqz <kb9rqz@punce.net>
Message-ID: <49948e3b$0$3337$6e1ede2f@read.cnntp.org>
Source record: 17658
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.antenna

```
"Ron" <apositiveplace@netscape.net> wrote in message
news:3nIkl.8932$_A2.1008@newsfe22.iad...
> k3vr@hotmail.com wrote:
>> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositiveplace@netscape.net>
>> wrote:
>>
>>> k3vr@hotmail.com wrote:
>>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
>>>> wrote:
>>>>
>>>>> k3vr@hotmail.com wrote:
>>>>>> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
>>>>>> wrote:
>>>>>>
>>>>>>> dloydlavies@gmail.com wrote:
>>>>>>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>>>>>>> <assemblywizard@gmail.com> wrote:
>>>>>>>>
>>>>>>>>> K4YZ wrote:
>>>>>>>>>> Nope.
>>>>>>>>>>
>>>>>>>>>> The IP Address and servers are complete proof that I do NOT
>>>>>>>>>> share
>>>>>>>>>> any annonymous character's "address".
>>>>>>>>>>
>>>>>>>>>> Sounds like Lennie, to me....
>>>>>>>>>>
>>>>>>>>>> Steve, K4YZ
>>>>>>>>>>
>>>>>>>>> To anyone with even an elementary understanding of anonymous
>>>>>>>>> proxies, anonymous remailers, zombie backdoors, etc., the ability
>>>>>>>>> to change ones IP address and header details is simplistic,
>>>>>>>>> indeed, with little time spent anyone can appear to be "coming"
>>>>>>>>> from anywhere in the world.
>>>>>>>>>
>>>>>>>> You waste my time. Worse, you think us all idiots here. You
>>>>>>>> remind me of the "street smart" prosecutors and defense attorneys
>>>>>>>> who stack jurys with members of little or no technical knowledge
>>>>>>>> and then call in "expert witnesses" and propose arguments of
>>>>>>>> technical details to boggle their minds.
>>>>>>>>
>>>>>>> You have only proven that you, yourself are either ignorant to
>>>>>>> such technical details, or else you are indeed street smart, I
```

>>>>>>>>> favor the latter in this case (however, if you in the dark about
>>>>>>>>> such things, 15 minutes on google will enlighten you.)
>>>>>>>>>
>>>>>>>>> JS
>>>>>>> Are you about done spamming this stuff? Can we please get back to
>>>>>>> the discussions that these news groups were designed for? Please?
>>>>>>>
>>>>>>> Ron
>>>>>> id love to but sme folks just will not alow not my fault and thye
>>>>>> need
>>>>>> tohe reminder
>>>>> I suppose in English that means "No".
>>>> it means ask someone else
>>> If the original post of mine was not to you then why did you answer? Do
>>> you know the name you post under?
>>
>> it seemed to be me I am telling it iswas msiderected
>
> By whom? It sure seems to me that the post I replied to is in this very
> thread, maybe it was your reply that was misdirected to this one rather
> than the one you had intended.
>
>>
>>>>> Most of have no need of a reminder, thanks. Maybe you feel the need
>>>>> to remind others, and now that you have done so please refrain from
>>>>> further spam.
>>>> well again that depend on other when they make it clear they don't get
>>>> then they will reminded yes along with yourself and other sadly that
>>>> is the way the usenet works
>>> Again, your use of the English language is a bit ... vague.
>>
>> hardly vauge at all
>
> I assume that English is your primary language, right? Does your news
> reader have a spelling checker on/in it? Have you ever used such a
> subprogram? If not I'd like to suggest that you become familiar with its
> use. Your spelling is absolutely atrocious, your syntax is worse, and
> this combines to make your posts nearly unreadable. Its not really a
> difficult concept to grasp, and the program is quite intuitive. Its built
> for those who cannot spell, in other words for someone just like yourself
> (and I to be honest, but I have learned to use my spell-checkers).
>
>>
>>
>> it seems and to the point
>>
>> if other parties would demostrate they finaly understand then then a
>> repeat will not be needed
>>
>

> Same at ya big guy.
>
>> based on past performance I don't even if they understand that it will
>> last at all
>>
>>>> indeed as certain of those that seem to need reminders are the
>>>> subjects of FCC enforcement actions I help to generate I sadly expect
>>>> that they will ned more remidners in the near future but that is up to
>>>> them
>>>>> Ron
>>> You you feel that you are the one, the best qualified, to provide these
>>> "reminders"?
>>
>> aboslotely
>
> How so? Are you the worlds foremost user of code? If so then I dearly
> hope you spell better in code than you do here. Imagine the bad name you
> give to other HAM's with your spelling.
>
>>
>> indeed as the targt of the remarks that indicate the need for a
>> reminder I am thealmost the only one in the world able to ntice
>>
>>> With the sad state of your command of the English language I'd suspect
>>> any claim that you generated an FCC action.
>>
>> ah now you are just being insultingand foolish
>
> Honest, not insulting. Please, review your posts to me in this thread.
> Read them one word at a time and then get back to me. Can you honestly
> say that they make sense? That the spelling is above par for an
> individual who's primary language is reported to be English?
>
>>> Kindly allow the individual to whom I posted the original "post" to
>>> answer.
>>
>> alow myself to post? how could I stopp anyone form posting indeed If I
>> had that power I would used it
>> and if I had the power to stop someone from posting no one would
>> need remeinding
>
> Actually, unless you use more than one name/account to post with, the
> original individual I was posting to goes by the name of
> "dloydlavies@gmail.com". The current account you are posting from is
> "k3vr@hotmail.com". Significant difference there, don't you think?
>
> Assuming that your account name here corresponds to a HAM call, then it
> would be even more simple to assume that anyone named Brian, residing in
> Florida, speaks English as his first language.
>

>>
>>> If he can that is. Somehow I doubt that anything beyond spam is a
>>> reach for him.
>>
>> HUH?
>
> I'd explain it, but I don't think I could keep the words small enough for
> you.
>
> Ron
>
>
know you enemy before you enage himthis advice "know your eneimy
knowyourself and Victory shal be thine" isfrom SinTzu the art of war (don't
have date this was writen hady)

1036. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 21:31:10 UTC
From: JB <nospam@goofball.net>
Message-ID: <yy0ll.491$g31.460@nwrddc01.gnilink.net>
Source record: 17660

>
> All metallic contacts are potential problems. For years I did Navy
> electronics, including a couple hundred EMI inspections. Where "topside
> housekeeping" was neglected, broadband noise (BBN) was sure to be a
problem.
> (All topside metallic objects need to be either insulated or firmly
> connected -- no incidental contact.)
>
> As little as a hundred watts would excite some junctions to generate BBN
> that could be detected throughout the HF band on other antennas. More
power
> would generate BBN up to several hundred MHz. Been there.
>
Great point!
My worst problem was my TV antenna mast, 20' away from my Butternut.
Actually generated TVI until I replaced it all, including all brackets and
hardware. Most of my neighbors TV antenna systems look far worse for wear.
I have offered free labor to replace for surrounding neighbors and was taken
up on it by one who had never seen so many stations before. It seems to be
something that people don't do right anymore because no one will pay for it.

1037. Re: Coil Dope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 21:42:00 UTC
From: JB <nospam@goofball.net>
Message-ID: <II0ll.495$g31.200@nwrddc01.gnilink.net>
Source record: 17661

> >I have used silicone grease, but WD40 is more-readily available. It also
> >wets better, and creeps into the hidden nooks and crannies. I give
> >everything a good dowsing before and after assembly,

At one time I thought silicone grease would save wear on N connectors until I used the spray on wattmeter slugs and found it completely insulated the shell contact. I since found it caused an SWR hump on N connectors even if it were just a spot on the threads.

1038. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-12 21:57:13 UTC
From: k3vr@hotmail.com
Message-ID: <3p69p45v8noavq790tbp2ovuap1f0ojqlc@4ax.com>
Source record: 17662
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

well as rrap readers the event to trigger a reminder has been
triggered
>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

1039. Read all about KD8IMG RIGHT HERE!!!!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 00:01:17 UTC
From: mopezakween@yahoo.com
Message-ID: <a7a3c383-e84a-4ef2-9533-18165cd04457@j38g2000yqa.googlegroups.com>
Source record: 17663
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

http://apps.co.lucas.oh.us/onlinedocketstest/Docket.aspx?STYPE=1&PAR=...

http://apps.co.lucas.oh.us/onlinedocketstest/Docket.aspx?STYPE=1&PAR=...

1040. get kelp ab

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 00:16:00 UTC
From: k3vr@hotmail.com
Message-ID: <dte9p4paipegq0ns8n6o3ne1v2dmdpf526@4ax.com>
Source record: 17664
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Thu, 12 Feb 2009 16:01:17 -0800 (PST), mopezakween@yahoo.com wrote:

>h
gate life

1041. vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 01:00:38 UTC
From: jgboyles@aol.com
Message-ID: <918bab95-5500-49c8-b20e-1ebf1dc7ccbd@j38g2000yqa.googlegroups.com>
Source record: 17665

Trying to design a 13' vertical with a loading coil at 3'. It will be mounted on an aluminum tool box on a pickup. I modeled this on EZNEC and came up with loads to resonate on 14.2 and 7.2 mhz. Wind the coils with calculated inductance and it is way lower in frequency than predicted.

Tapped up the coils and eventially got matches, but was wondering why the design and real world are so far apart?

Gary N4AST

1042. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 01:12:12 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <a5i9p4tsnfr78m6hob4nq7n4bkgdt7v1br@4ax.com>
Source record: 17666

On Thu, 12 Feb 2009 17:00:38 -0800 (PST), jgboyles@aol.com wrote:

> was wondering why
>the design and real world are so far apart?

Hi Gary,

The devil is in the details. A more full description of the model,
like its file available from a web site, would be more productive than
a lot of guessing.

73's
Richard Clark, KB7QHC

1043. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 01:22:27 UTC
From: Dave <noone@nowhere.com>
Message-ID: <nX3ll.394$ac6.184@nwrddc02.gnilink.net>
Source record: 17667

<jgboyles@aol.com> wrote in message
news:918bab95-5500-49c8-b20e-1ebf1dc7ccbd@j38g2000yqa.googlegroups.com...
> Trying to design a 13' vertical with a loading coil at 3'. It will be
> mounted on an aluminum tool box on a pickup. I modeled this on EZNEC
> and came up with loads to resonate on 14.2 and 7.2 mhz. Wind the
> coils with calculated inductance and it is way lower in frequency than
> predicted.
>
> Tapped up the coils and eventially got matches, but was wondering why
> the design and real world are so far apart?
>
> Gary N4AST

the real ground on the pickup truck is much more complex than you probably
modeled. what did you include for your ground model?

1044. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 03:02:14 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <camdncy8yIQqfwnUnZ2dnUVZ_ofinZ2d@posted.easystreetonline>
Source record: 17668

jgboyles@aol.com wrote:
> Trying to design a 13' vertical with a loading coil at 3'. It will be
> mounted on an aluminum tool box on a pickup. I modeled this on EZNEC
> and came up with loads to resonate on 14.2 and 7.2 mhz. Wind the
> coils with calculated inductance and it is way lower in frequency than
> predicted.
>
> Tapped up the coils and eventially got matches, but was wondering why
> the design and real world are so far apart?
>
> Gary N4AST

It sounds like the model of the pickup was inadequate -- it's at least
as important as the vertical. How did you model it?

Roy Lewallen, W7EL

1045. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 03:58:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <0e6ll.4298$PE4.3210@nlpi061.nbdc.sbc.com>
Source record: 17669

jgboyles@aol.com wrote:
> Tapped up the coils and eventially got matches, but was wondering why
> the design and real world are so far apart?

You must have used the lumped inductance available in
EZNEC which assumes that the coil is zero degrees long.
I've found the helix option to be much more accurate.
--
73, Cecil http://www.w5dxp.com

1046. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 04:37:56 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <4994f9de$0$7879$afc38c87@news.optusnet.com.au>
Source record: 17670

jgboyles@aol.com wrote:
> I modeled this on EZNEC
> and came up with loads to resonate on 14.2 and 7.2 mhz.

Maybe you need to tell EZNEC a frequency in megahertz, not millihertz ;-)

(joke!)

1047. Re: Coil Dope [threads on N connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 04:53:18 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <317ll.35$aZ3.26@newsfe01.iad>
Source record: 17671

"JB" <nospam@goofball.net> wrote in message
news:II0ll.495$g31.200@nwrddc01.gnilink.net...
>
> At one time I thought silicone grease would save wear on N
> connectors until I used the spray on wattmeter slugs and found it
> completely insulated the shell contact. I since found it caused
> an SWR hump on N connectors even if it were just a spot on the
> threads.

I could see where the thin silicone coating might be an insulator to the low voltages from the wattmeter slubs, but I find the second statement exceptionally hard to believe. In type N (and even BNC) connectors, the threads (or the bayonet connection) are not in the RF path. Look close at either type of male connector and note that there is a coaxial shield around the center pin. This shield presses against the inside wall of the jack providing a continuation of the coaxial line. The threads (or the bayonet connection) merely provides a sturdy mechanical connection. This what gives the type N and BNC connectors a constant impedance, and what makes them far superior to UHF connectors. It also allows the use of a rubber washer to make the connector waterproof.

In one of my instrumentation applications, I had to use N connectors made of 304 stainless for corrosion resistance and high temperatures. Ceramic and glass insulation was used within the connectors. The female jacks were welded in place and rated to withstand pressures of up to 100 PSIG. Stainless is quite bad about galling, and these connectors cost plenty, so a silver paste was used to lubricate the threads. One day, I had to make an "emergency" repair in the field and did not have the silver paste; so I used PTFE thread seal tape instead. Going back to my lab, I tested a few connectors with the thread seal tape using a Tek 1502 time domain reflectometer. Even with several layers of PTFE tape, I was unable to see any difference in the impedance through the connector. Since the application was always less than 200ï¿½C, we quit using the silver paste.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

1048. Re: Coil Dope [threads on N connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 08:24:04 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <9ZadnbosR4K5swjUnZ2dnUVZ_oninZ2d@posted.easystreetonline>
Source record: 17672

Dr. Barry L. Ornitz wrote:
>
> I could see where the thin silicone coating might be an insulator to the
> low voltages from the wattmeter slubs, but I find the second statement
> exceptionally hard to believe. In type N (and even BNC) connectors, the
> threads (or the bayonet connection) are not in the RF path. Look close
> at either type of male connector and note that there is a coaxial shield
> around the center pin. This shield presses against the inside wall of
> the jack providing a continuation of the coaxial line. The threads (or
> the bayonet connection) merely provides a sturdy mechanical connection.
> This what gives the type N and BNC connectors a constant impedance, and
> what makes them far superior to UHF connectors. It also allows the use
> of a rubber washer to make the connector waterproof.
>
> In one of my instrumentation applications, I had to use N connectors
> made of 304 stainless for corrosion resistance and high temperatures.
> Ceramic and glass insulation was used within the connectors. The female
> jacks were welded in place and rated to withstand pressures of up to 100
> PSIG. Stainless is quite bad about galling, and these connectors cost
> plenty, so a silver paste was used to lubricate the threads. One day, I
> had to make an "emergency" repair in the field and did not have the
> silver paste; so I used PTFE thread seal tape instead. Going back to my
> lab, I tested a few connectors with the thread seal tape using a Tek
> 1502 time domain reflectometer. Even with several layers of PTFE tape,
> I was unable to see any difference in the impedance through the
> connector. Since the application was always less than 200ï¿½C, we quit
> using the silver paste.

And, when tightened threads *are* necessary for electrical contact, oil
or light grease often improves conductivity. Thread pressure is adequate
to squeeze the lubricant out from the contact areas, allowing good
metallic contact. And it prevents oxidation or other corrosion of the
contact surfaces when the contacts are moved or vibrate by excluding
air. This holds true for all contacts properly designed to wipe and
contact with sufficient pressure. Quite a few people incorrectly
attribute this improvement to conductivity or some mystical property of
the lubricant, but its real trick is simply to exclude air.

Roy Lewallen, W7EL

1049. Re: Coil Dope [threads on N connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 08:51:37 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <9e01HhJZSTlJFwBu@g3ohx.demon.co.uk>
Source record: 17673

In message <9ZadnbosR4K5swjUnZ2dnUVZ_oninZ2d@posted.easystreetonline>,
Roy Lewallen <w7el@eznec.com> writes
>
>>
>>
>
>And, when tightened threads *are* necessary for electrical contact, oil
>or light grease often improves conductivity. Thread pressure is
>adequate to squeeze the lubricant out from the contact areas, allowing
>good metallic contact. And it prevents oxidation or other corrosion of
>the contact surfaces when the contacts are moved or vibrate by
>excluding air. This holds true for all contacts properly designed to
>wipe and contact with sufficient pressure. Quite a few people
>incorrectly attribute this improvement to conductivity or some mystical
>property of the lubricant, but its real trick is simply to exclude air.
>
>Roy Lewallen, W7EL

I would be surprised if a lubricant was sufficiently viscous and had
enough 'body' to act as an insulating layer between two parts of
well-tightened a connector.

However, I have personal experience that Araldite can. This was used to
ensure that a reducing bush (PG11 thread to 5/8"), in the wall of the
housing of a CATV amplifier, remained securely in place. On all four
ports, there was absolutely no continuity between the outers of the
connectors and the housing.
--
Ian

1050. Re: Coil Dope [threads on N connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 09:58:44 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <q5CdnSBPPbXJ2QjUnZ2dnUVZ_tTinZ2d@posted.easystreetonline>
Source record: 17674

Ian Jackson wrote:
>
> I would be surprised if a lubricant was sufficiently viscous and had
> enough 'body' to act as an insulating layer between two parts of
> well-tightened a connector.
>
> However, I have personal experience that Araldite can. This was used to
> ensure that a reducing bush (PG11 thread to 5/8"), in the wall of the
> housing of a CATV amplifier, remained securely in place. On all four
> ports, there was absolutely no continuity between the outers of the
> connectors and the housing.

Araldite seems to be a trade name for a variety of adhesives. There are certainly materials other than the oil or light grease I was speaking of which will interfere with continuity, and some of those adhesives are apparently in that category. Kids, don't apply epoxy to your relay contacts. Honey and contact cement might not be too good either.

Roy Lewallen, W7EL

1051. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 11:35:58 UTC
From: wood@itd.nrl.navy.mil
Message-ID: <wood-1302090635580001@jbw-mac.itd.nrl.navy.mil>
Source record: 17675

In article <camdncy8yIQqfwnUnZ2dnUVZ_ofinZ2d@posted.easystreetonline>, Roy Lewallen <w7el@eznec.com> wrote:
>
> It sounds like the model of the pickup was inadequate -- it's at least
> as important as the vertical. How did you model it?
>
> Roy Lewallen, W7EL

Hello, and that could well be it. After using NEC-4 to model USN HF antennas in their intended operating environment one finds that the local environment often requires beaucoup more wire segments (I never completely trusted patches) to model than the antenna itself. If conductive objects in close proximity can be excited by antenna currents then they are part of the antenna. A USN example would be the 2-6 MHz twin fan-type antenna that relies heavily on induced currents in the ship's stack for its feedpoint impedance and radiation characteristics. Sincerely, and 73s from N4GGO,

John Wood (Code 5550) e-mail: wood@itd.nrl.navy.mil
Naval Research Laboratory
4555 Overlook Avenue, SW
Washington, DC 20375-5337

1052. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 13:36:01 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gn3t02$sg5g$1@tr22n12.aset.psu.edu>
Source record: 17676

jgboyles@aol.com wrote:
> Trying to design a 13' vertical with a loading coil at 3'. It will be
> mounted on an aluminum tool box on a pickup. I modeled this on EZNEC
> and came up with loads to resonate on 14.2 and 7.2 mhz. Wind the
> coils with calculated inductance and it is way lower in frequency than
> predicted.
>
> Tapped up the coils and eventially got matches, but was wondering why
> the design and real world are so far apart?

The real world and modeling are a lot different with vehicles than they
are with land mounted antennas. Your ground on your truck is very complex.

side question: Did you bond the bejabbers out of the truck? You
really should have hood, doors, tailgate, exhaust system in several
places, frame in several places, radiator, engine block, and any other
place of interest you can think of.

Rule of thumb is that you need at least one more bond than the maximum
amount you'd dare to place on the vehicle.

The vehicle bonding and grounding is more important than the aerial part
IMO.

- 73 de Mike N3LI -

1053. Re: Read all about KD8IMG RIGHT HERE!!!!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 15:04:14 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <1853d943-bef5-457e-bd71-a1cf92e43c47@f40g2000pri.googlegroups.com>
Source record: 17677
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 12, 4:01 pm, mopezakw...@yahoo.com wrote:

Why don't you grow up and get out of the sandbox. This isn't high
school anymore.

1054. Re: Read all about KD8IMG RIGHT HERE!!!!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 15:58:38 UTC
From: mopezakween@yahoo.com
Message-ID: <51416c31-a578-42b9-8cc8-ccd318d276b5@i18g2000prf.googlegroups.com>
Source record: 17678
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 13, 10:04 am, "R.Scott" <w7...@yahoo.com> wrote:
> On Feb 12, 4:01 pm, mopezakw...@yahoo.com wrote:
>
> Why don't you grow up and get out of the sandbox. This isn't high
> school anymore.

why dont you go crawl away, contract a life threatening disease, and
die slowly with a great deal of deep bowel pain?

1055. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 16:32:50 UTC
From: JB <nospam@goofball.net>
Message-ID: <Sghll.42$Bl.2@nwrddc01.gnilink.net>
Source record: 17679

> The real world and modeling are a lot different with vehicles than they
> are with land mounted antennas. Your ground on your truck is very complex.
>
> side question: Did you bond the bejabbers out of the truck? You
> really should have hood, doors, tailgate, exhaust system in several
> places, frame in several places, radiator, engine block, and any other
> place of interest you can think of.
>
> Rule of thumb is that you need at least one more bond than the maximum
> amount you'd dare to place on the vehicle.
>
> The vehicle bonding and grounding is more important than the aerial part
> IMO.
>
> - 73 de Mike N3LI -

The frame is the only substantial ground and certainly most effective for 40 meters. Use of the corners of the vehicle might actually get you a counterpoise on 20. What you really need is a trailing wire, dragging a cast iron stove.

1056. Full Text of Robert Trendel, KD8IMG's stalking conviction against his female next door neighbor!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 16:45:37 UTC
From: mopezakween@yahoo.com
Message-ID: <b3593062-b57b-4ca0-a0e2-7a7cc3a6610d@s1g2000prg.googlegroups.com>
Source record: 17681
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO DATE: 2/13/2009

CASE: G -4801 -CL -200801110-000
TITLE: SZYMANSKI VS TRENDEL
JUDGE: STATUS: NEW FILING
FILING DATE: 4/15/2008 CASE TYPE: CAL COURT OF APPEALS

MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

Party Counsel
Appellant 1:
TRENDEL ROBERT L
222 PLYMOUTH STREET
TOLEDO, OH 43605
Alias(es)
TRENDEL ROBERT
DAVID F. WILEY
4196914232
624 MAIN STREET
TOLEDO, OH 436051746
Appellee 1:
SZYMANSKI DONNA S
228 PLYMOUTH
TOLEDO, OH 43605 CHRISTOPHER F. PARKER
4192449500
405 MADISON AVENUE
SUITE 2200
TOLEDO, OH 436041224
Appellee 2:
LEE KATHLEEN
322 BURGER
TOLEDO, OH 43605

DATE SEQ EVENT

3/13/2008 1 Title : MIS:ATTORNEY LIST
DAVID F WILEY
624 MAIN ST
TOLEDO OH 43605
ATTY FOR APPELLANT

CHRISTOPHER F PARKER
405 MADISON AVE STE 2200
TOLEDO OH 43604
ATTY FOR APPELLEE
PARTY : AT1 - TRENDEL ROBERT L

3/13/2008 2 Title : EVT:DATE ORDER APEALED
COMMON PLEAS CIVIL DIVISION CI08-2176 JUDGE BATES
PARTY : AT1 - TRENDEL ROBERT L

4/14/2008 1 Title : PLD:NOTICE OF APPEAL FILED
IN COMMON PLEAS CIVIL DIVISION
PARTY : AT1 - TRENDEL ROBERT L

4/14/2008 2 Title : PLD:PRAECIPE FILED
IN COMMON PLEAS CIVIL DIVISION
PARTY : AT1 - TRENDEL ROBERT L

4/14/2008 3 Title : PLD:DOCKETING STATEMENT
FILED IN COMMON PLEAS CIVIL DIVISION
PARTY : AT1 - TRENDEL ROBERT L

4/15/2008 2 Title : PLD:NOTICE OF APPEAL FILED
IN COURT OF APPEALS
PARTY : AT1 - TRENDEL ROBERT L

4/15/2008 3 Title : PLD:PRAECIPE FILED
IN COURT OF APPEALS
PARTY : AT1 - TRENDEL ROBERT L

4/15/2008 4 Title : PLD:DOCKETING STATEMENT
FILED IN COURT OF APPEALS
PARTY : AT1 - TRENDEL ROBERT L

4/15/2008 5 Title : EVT:RECORD DUE
MAY 27 2008 TRANSCRIPT OF PROCEEDINGS
PARTY : AT1 - TRENDEL ROBERT L

4/28/2008 1 Title : EVT:DECISION & JE FILED
FINDING THAT APPEALS L08-1110 AND L08-1111 INVOLVE COMMON
QUESTIONS OF LAW AND FACT IT IS ORDERED THAT THESE TWO APPEA
LS BE CONSOLIDATED UNDER L08-1110 FOR PURPOSES OF APPEAL PUR
SUANT TO APP R 3 B. ALL FUTURE FILINGS SHALL REFERENCE BOTH
APPELLATE NUMBERS.

E-JOURNALIZED 4-28-08 PIETRYKOWSKI ATTYS. NOTIFIED
PARTY : AT1 - TRENDEL ROBERT L

4/28/2008 3 Title : EVT:DECISION & JE FILED
ACCORDINGLY APPELLANT IS ORDERED TO FILE WITHIN 10 DAYS OF T
HE DATE OF THIS JUDGEMENT ENTRY ONE FULLY COMPLETED AMENDED
PRAECIPE REFERENCING BOTH APPELLATE CASE NUMBERS OR THIS APP
EAL WILL BE SUBJECT TO DISMISSAL. THIS ORDER DOES NOT AFFECT
THE TIME THE RECORD ON APPEAL IS TO BE FILED PURSUANT TO AP
P R 10.

E-JOURNALIZED 4-28-08 PIETRYKOWSKI ATTYS. NOTIFIED
PARTY : AT1 - TRENDEL ROBERT L

4/29/2008 11 Title : EVT:DECISION & JE FILED
AT-1 Consolidated from G-4801-CL-200801111-000
to G-4801-CL-200801110-000 as AT-1
Adjustment IP $4.00
PARTY : AT1 - TRENDEL ROBERT L

4/29/2008 12 Title : ORD:CASE CONSOLIDATED
Consolidated From G-4801-CL-200801111-000
PARTY : -

5/5/2008 1 Title : PLD:AMENDED PRAECIPE FILED
FILED IN COMMON PLEAS CIVIL DIVISION
PARTY : AT1 - TRENDEL ROBERT L

5/6/2008 1 Title : PLD:AMENDED PRAECIPE FILED
IN COURT OF APPEALS
PARTY : AT1 - TRENDEL ROBERT L

5/6/2008 2 Title : EVT:RECORD FILED
Consisting of the original pleading and exhibits thereto
filed in the trial court and a certified copy of the docket
and journal entries.
ONE TRANSCRIPT OF PROCEEDINGS, ORIGINAL ONLY. HEARING OF
MARCH 13 2008 PGS 1-80
PARTY : AT1 - TRENDEL ROBERT L

5/6/2008 3 Title : EVT:LETTER RE FILING (APPEAL)
With App. R. 11 (B) sent to all parties this date by
regular mail.
PARTY : AT1 - TRENDEL ROBERT L

5/20/2008 1 Title : PLD:BRIEF
OF APPELLANT, ORIGINAL AND 4
PARTY : AT1 - TRENDEL ROBERT L

6/12/2008 1 Title : MTN: FOR EXTENSION FILED
TO FILE BRIEF
PARTY : AE1 - SZYMANSKI DONNA S

6/13/2008 1 Title : EVT:ORDER FILED & JOURNALIZED
IT IS THEREFORE ORDERED THAT APPELLEE BE AND IS HEREBY GRANT
ED AN EXTENSION OF TIME TO JUNE 23, 2008 TO FILE HER RESPONS
E BRIEF IN THIS APPEAL.

E-JOURNALIZED 6-13-08 PIETRYKOWSKI ATTYS. NOTIFIED
PARTY : AE1 - SZYMANSKI DONNA S

6/23/2008 1 Title : PLD:BRIEF
ORIGINAL AND 4 COPIES
PARTY : AE1 - SZYMANSKI DONNA S

7/11/2008 1 Title : EVT:RECORD TRANSMITTED
TO COURT OF APPEALS
PARTY : AT1 - TRENDEL ROBERT L

7/30/2008 1 Title : EVT:DECISION & JE FILED
THIS MATTER IS BEFORE THE COURT SUA SPONTE. APPELLEES BRIEF
FILED ON JUNE 23 2008 DOES NOT CONTAIN REFERENCES TO THE
RECORD AS REQUIRED BY APP.R.16(A) AND (D). THE COURT ORDERS
APPELLEE TO FILE WITHIN 15 DAYS OF THE DATE OF THIS ORDER,
AND ORIGINAL AND FOUR COPIES OF AN AMENDED BBRIEF WHICH
SUBSTANTIALLY COMPLIES WITH THE APPLICABLE RULES.
E-JOURNALIZED 7-30-08 PIETRYKOWSKI
ATTYS NOTIFIED
PARTY : AE1 - SZYMANSKI DONNA S

8/6/2008 1 Title : PLD:AMENDED BRIEF
OF APPELLEE, ORIGINAL AND 4
PARTY : AE1 - SZYMANSKI DONNA S

8/18/2008 1 Title : CAL:ORAL ARGUMENT SET
MONDAY SEPT 15 2008 9:00 A.M.
ONE CONSTITUTION AVE
HANDWORK PIETRYKOWSKI SKOW
PARTY : AT1 - TRENDEL ROBERT L

9/19/2008 1 Title : EVT:DECISION & JE FILED
THIS MATTER IS BEFORE THE COURT SUA SPONTE. ORAL ARGUMENT
SCHEDULED FOR MONDAY SEP 15 2008 AT 9:00 A.M. IS HEREBY
RESCHEDULED FOR MONDAY DEC 8 2008 AT 9:00 A.M. TO BE
HEARD BY JUDGES PETER M HANDWORK, MARK L PIETRYKOWSKI,
AND WILLIAM J SKOW.
E-JOURNALIZED 9-19-08 PIETRYKOWSKI
ATTYS NOTIFIED
PARTY : AT1 - TRENDEL ROBERT L

11/18/2008 1 Title : CAL:ORAL ARGUMENT SET
MONDAY DEC 8 2008 9:00 A.M.
ONE CONSTITUTION AVE
HANDWORK PIETRYKOWSKI SKOW
PARTY : AT1 - TRENDEL ROBERT L

1057. get kelped

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 16:51:32 UTC
From: k3vr@hotmail.com
Message-ID: <579bp4p3qerk97mpcu7bpb92e5feb4cd37@4ax.com>
Source record: 17680
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 13 Feb 2009 07:04:14 -0800 (PST), "R.Scott" <w7psk@yahoo.com>
wrote:

>On Feb 12, 4:01ï¿½pm, mopezakw...@yahoo.com wrote:
>
>
>Why don't you grow up and get out of the sandbox. This isn't high
>school anymore.
the guys never made it to high school by all apearances

might not have made it grade school

1058. Re: Coil Dope [threads on N connectors]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 17:09:39 UTC
From: JB <nospam@goofball.net>
Message-ID: <nPhll.50$Bl.36@nwrddc01.gnilink.net>
Source record: 17682

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:q5CdnSBPPbXJ2QjUnZ2dnUVZ_tTinZ2d@posted.easystreetonline...
> Ian Jackson wrote:
> >
> > I would be surprised if a lubricant was sufficiently viscous and had
> > enough 'body' to act as an insulating layer between two parts of
> > well-tightened a connector.
> >
> > However, I have personal experience that Araldite can. This was used to
> > ensure that a reducing bush (PG11 thread to 5/8"), in the wall of the
> > housing of a CATV amplifier, remained securely in place. On all four
> > ports, there was absolutely no continuity between the outers of the
> > connectors and the housing.
>
> Araldite seems to be a trade name for a variety of adhesives. There are
> certainly materials other than the oil or light grease I was speaking of
> which will interfere with continuity, and some of those adhesives are
> apparently in that category. Kids, don't apply epoxy to your relay
> contacts. Honey and contact cement might not be too good either.
>
> Roy Lewallen, W7EL

I used to think that too. Good point about the inner shell, but I wonder if all N's are created equal. That might have tainted my results. The experiment was encountered in the process of tuning cavities, duplexers and other filters with a R2001D. I have used oils before but some will rot the gasketting. Grease or oils will migrate, but Stainless is a problem about galling. It was a regular thing to have to clean Silver dust and grunge from the bulkhead female with a q-tip and Isopropyl. The final answer was to add a sacrificial N male to female adapter to save wear on the Silver plating.

I also noticed Coffee doesn't make good contact cleaner either. Even with plenty of sugar (just trying to help).

1059. Re: Read all about KD8IMG RIGHT HERE!!!!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 17:49:18 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <59a70574-6674-424e-b736-7bd764669e5a@r15g2000prh.googlegroups.com>
Source record: 17683
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 13, 7:58 am, mopezakw...@yahoo.com wrote:
> On Feb 13, 10:04 am, "R.Scott" <w7...@yahoo.com> wrote:
>
> > On Feb 12, 4:01 pm, mopezakw...@yahoo.com wrote:
>
> > Why don't you grow up and get out of the sandbox. This isn't high
> > school anymore.
>
> why dont you go crawl away, contract a life threatening disease, and
> die slowly with a great deal of deep bowel pain?

Why don't you get a job and move out of Moms Basement and get rid of
your blow up girlfriends. In other words get a freaking Life.

1060. Re: Full Text of Robert Trendel, KD8IMG's stalking conviction against his female next door neighbor!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 17:59:15 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <87ae83bb-33d3-4888-b367-281065bad692@z28g2000prd.googlegroups.com>
Source record: 17684
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Funny I put in that docket number and get something different,
FALSIFYING DATA is a Crime donja know

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO
TIME: 1:00:39 PM
DATE: 2/13/2009
CASE: G -4801 -CI -200801110-000
TITLE: SMITH VS KRISTINA THOMAS
JUDGE: FREDERICK H. MCDONALD STATUS: CLOSED/TERM'D
FILING DATE: 1/7/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
MISC
MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:
Party Counsel
Plaintiff 1:
SMITH BRITTANY

Defendant 1:
THOMAS KRISTINA

DATE SEQ EVENT

1/7/2008 1 Title : OPN:CPO PETITION FILED
PARTY : P1 - SMITH BRITTANY

1/7/2008 2 Title : ORD:JUDGMENT ENTRY
CASE CALLED FOR HEARING UPON PETITIONER'S PETITION FOR
EX PARTE CIVIL STALKING PROTECTION ORDER. PETITIONER
HAVING FAILED TO APPEAR IT IS ORDERED THAT THE EX PARTE
CIVIL STALKING PROTECTION PETITION FILED 1/7/08 IS
DISMISSED FOR WANT OF PROSECUTION. SEE JE.
PARTY : -

1/9/2008 1 Title : CLS:DISMISS WITHOUT PREJUDICE
PARTY : -

1/10/2008 1 Title : EVT:DISMISSAL FILED/JOURNALIZE
EJOURNALIZED 01/14/2008
PERTAINING TO DISMISSAL OF CSPO
PARTY : P1 - SMITH BRITTANY

Disclaimer : The public record information available here reflects the docket entries and journals required by Ohio law to be kept by the Lucas County Clerk of the Court of Common Pleas. This information reflects the actual documents filed and kept at the Clerk of Courts Legal Division, located in the Lucas County Courthouse, at Adams and Erie Streets in Toledo, Ohio, 43624. The data entry, though generally deemed reliable, cannot be guaranteed. The information may appear on the Internet Docket before the entry is actually signed and journalized. Of course the proposed action is official only when signed and journalized. In no event shall the Lucas County Clerk of the Court of Common Pleas, or any other Lucas County department, agency, or official be held liable for damage of any nature, direct or indirect, arising from the use of this Internet product; including loss of profits, loss of savings, or other incidental or consequen

1061. Re: Full Text of Robert Trendel, KD8IMG's stalking conviction against his female next door neighbor!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 18:09:00 UTC
From: mopezakween@yahoo.com
Message-ID: <464fc6b0-9451-4353-8574-8e5cdaa0c678@i24g2000prf.googlegroups.com>
Source record: 17685
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Then tell the cops, buttface. AFTER you contract deep bowel cancer,
hopefully.

1062. UPDATED TEXT OF STALKING CONVICTIONS FOR ROBERT L TRENDEL, KD8IMG

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 18:18:00 UTC
From: mopezakween@yahoo.com
Message-ID: <0f592ae1-e39d-43d1-923e-b5385e6d029a@n5g2000prc.googlegroups.com>
Source record: 17686
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.antenna,rec.radio.amateur.policy

Conviction 1

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO TIME: 1:16:32 PM
DATE: 2/13/2009

CASE: G -4801 -CI -200802161-000
TITLE: LEE VS TRENDEL
JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
FILING DATE: 2/20/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
MISC

MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

Party Counsel
Plaintiff 1:
LEE KATHLEEN

Defendant 1:
TRENDEL ROBERT

Alias(es)
TRENDEL ROBERT

DATE SEQ EVENT

2/20/2008 1 Title : OPN:CPO PETITION FILED
PARTY : P1 - LEE KATHLEEN

2/21/2008 1 Title : ORD:REQ'T EXT TO PLD GRANTED
EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
HEARING TO FEB. 29, 2008 AT 1 P.M.
PARTY : -

2/21/2008 3 Title : MIS:COURTROOM CASE NOTES
SENT EX PARTE ORDER ORDINARY MAIL TO RESPONDENT, ROBERT
TRENDEL.
PARTY : -

2/21/2008 4 Title : EVT:CPO SENT SHERIFF FOR SERVE
COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
ROBERT L TRENDEL
PARTY : D1 - TRENDEL ROBERT

2/21/2008 5 Title : EVT:HAND DELIV SERVE BY BAILIF
NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
PARTY : P1 - LEE KATHLEEN

2/21/2008 6 Title : SRV:COPIES MAILED
COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND
FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

2/21/2008 7 Title : EVT:EX PARTE CPO FILED/JOUR
EJOURNALIZED 2-27-08
PARTY : P1 - LEE KATHLEEN

2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
THAT THERE WAS NO RESPONSE TO NOTES LEFT
PARTY : D1 - TRENDEL ROBERT

2/29/2008 1 Title : ORD:ORDER
Court reporter Kim Kohls ordered. The matter was called
for a full hearing on February 29, 2008, on a request for
a Civil Protection Stalking Order filed on February 20,
2008. Petitioner KATHLEEN LEE was present. Respondent
ROBERT TRENDEL was present with his attorney DAVID F.
WILEY. At the request of Respondent, the full hearing is
continued until March 13, 2008 at 1:00 p.m. IT IS
THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing
scheduled for February 29, 2008, is ORDERED continued
until March 13, 2008 at 1:00 p.m.
IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking
Protection Order granted on February 21, 2008, shall
remain in full force and effect until March 13, 2008.

See Order.
PARTY : -

2/29/2008 2 Title : HRG:HEARING SET
FULL HEARING 3/13/08 1:00 P.M.
PARTY : -

2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
JOURNALIZED 03/05/2008
PERTAINING TO ORDER TO CONTINUE CSPO HEARING TO 3/13/08
PARTY : P1 - LEE KATHLEEN

3/3/2008 1 Title : SRV:COPIES MAILED
COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING
PROTECTION ORDER TO 3/13/2008 AT 1:00 P.M. IN
COURTROOM #2 MAILED ORDINARY TO PETITIONER AND RESPONDENT
AND TO DAVID WILEY ATTORNEY.

COPIES ALSO LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL FORCE
AND EFFECT THROUGH 3-12-2010.
PARTY : -

3/13/2008 2 Title : CLS:CPO CLOSED
PARTY : -

3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
CHRIS IN COURTROOM #2 PERSONALLY SERVED BOTH THE PETITIONER
AND RESPONDENT WITH COPIES OF CIVIL STALKING PROTECTION
ORDER FULL HEARING
PARTY : P1 - LEE KATHLEEN

3/14/2008 1 Title : SRV:COPIES MAILED
COPIES OF CIVIL STALKING PROTECTION ORDER AND FORM 10-A NCIC
LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND
TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
EJOURNALIZED 03/14/2008
PERTAINING TO ORDER OF PROTECTION FULL HEARING
PARTY : P1 - LEE KATHLEEN

4/14/2008 1 Title : PLD:DOCKETING STATEMENT
PARTY : P1 - LEE KATHLEEN

4/14/2008 2 Title : PLD:PRAECIPE FILED
PARTY : P1 - LEE KATHLEEN

4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
PARTY : P1 - LEE KATHLEEN

4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
TO KATHLEEN LEE
322 BURGER STREET
TOLEDO, OH 43605
PARTY : D1 - TRENDEL ROBERT

4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
L08-1111
PARTY : P1 - LEE KATHLEEN

5/5/2008 1 Title : PLD:PRAECIPE FILED
AMENDED PRAECIPE PURSUANT TO 6TH DIST.LOC.APP.R.3(B)
PARTY : P1 - LEE KATHLEEN

Conviction 2, this one is even better...it is his NEXT DOOR NEIGHBOR

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO TIME: 1:18:30 PM
DATE: 2/13/2009

CASE: G -4801 -CI -200802176-000
TITLE: SZYMANSKI VS TRENDEL
JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
FILING DATE: 2/21/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
MISC

MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

Party Counsel
Plaintiff 1:
SZYMANSKI DONNA S

Defendant 1:
TRENDEL ROBERT L

Alias(es)
TRENDEL ROBERT

DATE SEQ EVENT

2/21/2008 1 Title : OPN:CPO PETITION FILED
PARTY : P1 - SZYMANSKI DONNA S

2/21/2008 2 Title : JRE:EXISTING PENDING CASE
PARTY : -

2/21/2008 3 Title : EVT:CPO SENT SHERIFF FOR SERVE
COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
ROBERT L TRENDEL
PARTY : D1 - TRENDEL ROBERT L

2/21/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
PARTY : P1 - SZYMANSKI DONNA S

2/21/2008 5 Title : SRV:COPIES MAILED
COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND A FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - SZYMANSKI DONNA S

2/21/2008 7 Title : EX PARTE PROTECT ORD 2903.214
EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL HEARING ON 2-29-08 AT 1 P.M.
RESPONDENT SHALL NOT DISSEMINATE ANY INFORMATION ABOUT THE OVER C.B. RADIO. THE RESPONDENT SHALL NOT APPEAR AT THE POLICE DEPARTMENT FROM 2:30 P.M. TO 11:00 P.M WHILE THE PETITIONER IS AT WORK.
PARTY : -

2/21/2008 8 Title : MIS:COURTROOM CASE NOTES
SENT EX PARTE ORDER TO RESPONDENT BY ORDINARY MAIL.
PARTY : -

2/21/2008 9 Title : EVT:EX PARTE CPO FILED/JOUR
EJOURNALIZED 2-26-08
PARTY : P1 - SZYMANSKI DONNA S

2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES THAT THERE WAS NO RESPONSE TO NOTES LEFT.
PARTY : D1 - TRENDEL ROBERT L

2/29/2008 1 Title : ORD:ORDER
Court reporter Kim Kohls ordered. The matter was called for a full hearing on February 29, 2008, on a request for a Civil Protection Stalking Order filed on February 21, 2008. Petitioner DONNAL S SZYMANSKI was present. Respondent ROBERT L TRENDEL was present with his attorney DAVID F. WILEY. At request of Respondent, the full hearing is continued until March 13, 2008 at 1:00 p.m.IT IS THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing scheduled for February 29, 2008, is ORDERED continued until March 13, 2008, at 1:00 p.m. IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking Protection Order granted on February 20, 2008, shall remain in full force and effect until March 13, 2008.

See Order.
PARTY : -

2/29/2008 2 Title : HRG:HEARING SET
FULL HEARING 3/13/08 AT 1:00 P.M.
PARTY : -

2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
JOURNALIZED 03/05/2008
PERTAINING TO ORDER TO CONTINUING CSPO HEARING TO 3/13/08

PARTY : P1 - SZYMANSKI DONNA S

3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL
FORCE AND EFFECT THROUGH 3-12-2010.
PARTY : -

3/13/2008 2 Title : CLS:CPO CLOSED
PARTY : -

3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
BY CHRIS IN COURTROOM #2
PARTY : P1 - SZYMANSKI DONNA S

3/14/2008 1 Title : SRV:COPIES MAILED
COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - SZYMANSKI DONNA S

3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
EJOURNALIZED 03/14/2008
PERTAINING TO ORDER OF PROTECTION FULL HEARING
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 1 Title : PLD:PRAECIPE FILED
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 2 Title : PLD:DOCKETING STATEMENT
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
PARTY : D1 - TRENDEL ROBERT L

4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
TO CHRISTOPHER F. PARKER, ESQ
405 MADISON AVE, SUITE 2200
TOLEDO, OH 43604-1224
PARTY : D1 - TRENDEL ROBERT L

4/15/2008 3 Title : MIS:CLERKS OFFICE NOTES
PETITION FOR EX PARTE CIVIL STALKING PROTECTION ORDER
WAS NOT FILE STAMPED ON 2/21/2008. FILED STAMPED ON 4/15/08
PARTY : P1 - SZYMANSKI DONNA S

4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
L08-1110
PARTY : P1 - SZYMANSKI DONNA S

3/3/2009 1 Title : SRV:COPIES MAILED
COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING

PROTECTION ORDER TO MARCH 13, 2008 AT 1:00 P.M. IN
COURTROOM #1 MAILED ORDINARY TO BOTH THE PETITIONER AND
RESPONDENT. COPIES LEFT FOR TOLEDO POLICE AND LUCAS
COUNTY SHERIFF DEPT. COPY ALSO MAILED TO DAVID F WILEY
ATTORNEY.
PARTY : P1 - SZYMANSKI DONNA S

1063. 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 19:00:06 UTC
From: mat_62@netcommander.com
Message-ID: <2477b02a-bc76-4a0d-a04d-7e2438e2e6ea@h5g2000yqh.googlegroups.com>
Source record: 17687

I have a Rohn 30 foot telescoping mast that I'd like to use as the vertical element of a 40 meter ground plane. My idea is to add 3 feet of pipe to the top of it to make it the required 33 ft. long.
I want to elevate the bottom of it about 8 feet of the ground and run a couple of quarter wave wire radials out from it. This way they can be walked under.
My questions are these...
The ground slopes upward in one direction that I need to run a radial. The radial will have to have an upward sweep in order to maintain the clearance needed to walk under it. Will this be an issue?

The mast will be attached to my house to help support it. I can insulate it from the mounting bracket with no problem. What I'm wondering is with the fact of the mast being right up against the house and not in the clear, how much will the performance of the antenna be affected?

I have come up with this idea of a groundplane because I don't want to deal with burying a whole bunch of radials in the ground. Think it will work?
Tnx for any advice and suggestions and 73,
Michael, W4HIJ

1064. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 19:15:51 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <0tOdnf221493WwjUnZ2dnUVZ_qzinZ2d@posted.easystreetonline>
Source record: 17688

JB wrote:
>
> The frame is the only substantial ground and certainly most effective for 40
> meters. Use of the corners of the vehicle might actually get you a
> counterpoise on 20. What you really need is a trailing wire, dragging a
> cast iron stove.

At HF, a vehicle isn't "ground" or a "counterpoise", but the bottom half of an asymmetric dipole. It radiates at least as much as the "antenna" due to currents flowing downward along the outside. Calling a vehicle "ground" or "counterpoise" doesn't impart magical properties -- it's a conductor carrying currents whose fields don't cancel. In other words, it's an integral, radiating portion of the antenna. You can't leave this significant part of the antenna out of a model and expect the model to give correct results.

And modeling a vehicle can be challenging because of the proximity of conductors, particularly the whip and vehicle. You have to follow the rules for closely spaced parallel conductors, and watch the average gain. You might need considerably more segments than normal where conductors are very close.

Roy Lewallen, W7EL

1065. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 19:19:48 UTC
From: Rick <ricknj10@hotmail.com>
Message-ID: <4995c7d7$0$5928$607ed4bc@cv.net>
Source record: 17689

Yes Michael it will work fine. Keep the radials parallel to the ground under them and they will be fine.
A suggestion - keep it at 30 feet for simplicity. Make sure it is insulated where you attach to the house, the more the better.
Now the reason I say keep it at 30 feet is make it easier to build, because you have an unknown (how much the house is going to detune things). So the way you make up for this is with some matching at the base or with an antenna tuner in the shack. Since it will probably be too short because of the missing 3 feet, you will add some coil at the base which you make variable until you get the swr to a reasonable level, say around 2:1. Then just get on the air with it and make contacts. A 30 ft antenna works the same as a 33 foot one.

Rick

1066. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 19:40:23 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <dkibp4dvgs39sgct4bhti2e61seguo2lge@4ax.com>
Source record: 17690

On Fri, 13 Feb 2009 11:00:06 -0800 (PST), mat_62@netcommander.com
wrote:

>My questions are these...
>The ground slopes upward in one direction that I need to run a radial.
>The radial will have to have an upward sweep in order to maintain the
>clearance needed to walk under it. Will this be an issue?

Hi Michael,

No more than any other design - which is to say it will fit into the
solution without any more effort or problems.

>The mast will be attached to my house to help support it. I can
>insulate it from the mounting bracket with no problem. What I'm
>wondering is with the fact of the mast being right up against the
>house and not in the clear, how much will the performance of the
>antenna be affected?

I would be more concerned with mechanical issues (like the moment arm
of the antenna ripping out a wall). Of course, this concern is rather
limited. As for the effect on performance - yes it will affect it. Do
you have any alternatives? If you do, those alternatives would
probably not bring any significant change (improvement or otherwise)
unless your home has metal siding (or metal mesh stucco). Wood is,
afterall, an insulator; and a house is largely filled with air,
another insulator.

>I have come up with this idea of a groundplane because I don't want to
>deal with burying a whole bunch of radials in the ground. Think it
>will work?

You are probably going to have to tune the antenna, or use a tuner.
Adding the "necessary" X feet to the top might do it, but simply plan
on building in a match or using a tuner and be done with it as a
problem. As for the radials, this is an issue of loss. If you can
put up with the loss, you don't need a "whole bunch." How much loss?
Probably less than the width of an S-Meter needle variation between
what you plan, and what you might do in a full scale elaboration.

73's
Richard Clark, KB7QHC

1067. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 20:36:23 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <bRkll.4369$PE4.45@nlpi061.nbdc.sbc.com>
Source record: 17691

Roy Lewallen wrote:
> And modeling a vehicle can be challenging ...

Here's how I modeled my pickup:

http://www.w5dxp.com/shootout.ez
--
73, Cecil http://www.w5dxp.com

1068. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 21:53:27 UTC
From: jgboyles@aol.com
Message-ID: <9e651a3e-8e40-46fc-8b9d-19be6aecf415@p13g2000yqc.googlegroups.com>
Source record: 17692

On Feb 12, 9:02 pm, Roy Lewallen <w...@eznec.com> wrote:

> It sounds like the model of the pickup was inadequate -- it's at least
> as important as the vertical. How did you model it?
>
> Roy Lewallen, W7EL

From the responses I have gotten, that is the problem, I didn't model the pickup. I wanted a simple way to determine the L I needed to get the antenna resonant. I don't think it would be worth it to try and model the truck just to get that small amount of data. By the cut and try method I have determined the inductance I need is about 70% of the value I get on EZNEC. I guess that is not too bad, gives me a starting point. Thanks for the responses.

Gary N4AST

1069. GTE KELP

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 22:53:22 UTC
From: k3vr@hotmail.com
Message-ID: <jeubp4dng3cg0cplupqnp4c3pirb53fj9a@4ax.com>
Source record: 17693
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 13 Feb 2009 07:58:38 -0800 (PST), mopezakween@yahoo.com wrote:

>
grow up

1070. get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 22:54:43 UTC
From: k3vr@hotmail.com
Message-ID: <2hubp4ps8s33np90jcdso5l496d3f871pm@4ax.com>
Source record: 17694
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Fri, 13 Feb 2009 10:09:00 -0800 (PST), mopezakween@yahoo.com wrote:

>Then tell the cops, buttface. AFTER you contract deep bowel cancer,
>hopefully.
plase get some basic manners

1071. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 22:55:15 UTC
From: k3vr@hotmail.com
Message-ID: <ohubp4llanu5d75dd81cv4do54c78r5u31@4ax.com>
Source record: 17695
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Fri, 13 Feb 2009 10:18:00 -0800 (PST), mopezakween@yahoo.com wrote:

>Conviction 1
>

get a life

1072. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 22:55:52 UTC
From: Ken Fowler <ko6no@yahoo.com>
Message-ID: <J9CdnbUUPpTrZwjUnZ2dnUVZ_oTinZ2d@giganews.com>
Source record: 17697

On 13-Feb-2009, Cecil Moore <nospam@w5dxp.com> wrote:

> Roy Lewallen wrote:
> > And modeling a vehicle can be challenging ...
>
> Here's how I modeled my pickup:
>
> http://www.w5dxp.com/shootout.ez
> --
> 73, Cecil http://www.w5dxp.com

Nice. I'l like to model this:

http://www.qsl.net/nb6gc/

Ken Fowler, KO6NO
President, USS Hornet Amateur Radio Club
--

1073. Re: get kelp ab

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 22:57:43 UTC
From: k3vr@hotmail.com
Message-ID: <6nubp45se319rqj4qflddv6qqint0el3id@4ax.com>
Source record: 17696
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Thu, 12 Feb 2009 19:16:00 -0500, k3vr@hotmail.com wrote:

>On Thu, 12 Feb 2009 16:01:17 -0800 (PST), mopezakween@yahoo.com wrote:
>
>>h
>gate life

1074. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 23:03:04 UTC
From: Ron <apositiveplace@netscape.net>
Message-ID: <C_mll.183$pX4.161@newsfe08.iad>
Source record: 17698
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

k3vr@hotmail.com wrote:
> On Wed, 11 Feb 2009 16:33:38 -0600, Ron <apositiveplace@netscape.net>
> wrote:
>
>> k3vr@hotmail.com wrote:
>>> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositiveplace@netscape.net>
>>> wrote:
>>>
>>>> k3vr@hotmail.com wrote:
>>>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
>>>>> wrote:
>>>>>
>>>>>> k3vr@hotmail.com wrote:
>>>>>>> On Tue, 10 Feb 2009 09:14:10 -0600, Ron <apositiveplace@netscape.net>
>>>>>>> wrote:
>>>>>>>
>>>>>>>> dloydlavies@gmail.com wrote:
>>>>>>>>> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
>>>>>>>>> <assemblywizard@gmail.com> wrote:
>>>>>>>>>
>>>>>>>>>> K4YZ wrote:
>>>>>>>>>>> Nope.
>>>>>>>>>>>
>>>>>>>>>>> The IP Address and servers are complete proof that I do NOT share
>>>>>>>>>>> any annonymous character's "address".
>>>>>>>>>>>
>>>>>>>>>>> Sounds like Lennie, to me....
>>>>>>>>>>>
>>>>>>>>>>> Steve, K4YZ
>>>>>>>>>>>
>>>>>>>>>> To anyone with even an elementary understanding of anonymous proxies,
>>>>>>>>>> anonymous remailers, zombie backdoors, etc., the ability to change ones
>>>>>>>>>> IP address and header details is simplistic, indeed, with little time
>>>>>>>>>> spent anyone can appear to be "coming" from anywhere in the world.
>>>>>>>>>>
>>>>>>>>>> You waste my time. Worse, you think us all idiots here. You remind me
>>>>>>>>>> of the "street smart" prosecutors and defense attorneys who stack jurys
>>>>>>>>>> with members of little or no technical knowledge and then call in
>>>>>>>>>> "expert witnesses" and propose arguments of technical details to boggle
>>>>>>>>>> their minds.
>>>>>>>>>>
>>>>>>>>>> You have only proven that you, yourself are either ignorant to such
>>>>>>>>>> technical details, or else you are indeed street smart, I favor the

>>>>>>>>>> latter in this case (however, if you in the dark about such things, 15
>>>>>>>>>> minutes on google will enlighten you.)
>>>>>>>>>>
>>>>>>>>>> JS
>>>>>>>> Are you about done spamming this stuff? Can we please get back to the
>>>>>>>> discussions that these news groups were designed for? Please?
>>>>>>>>
>>>>>>>> Ron
>>>>>>> id love to but sme folks just will not alow not my fault and thye need
>>>>>>> tohe reminder
>>>>>> I suppose in English that means "No".
>>>>> it means ask someone else
>>>> If the original post of mine was not to you then why did you answer? Do
>>>> you know the name you post under?
>>> it seemed to be me I am telling it iswas msiderected
>> By whom?
> you

Not I bub. I replied, and have no ability to redirect your posts. If
it was redirected, then we the clear thinking members of the news group
can only come to one conclusion.

>
>> It sure seems to me that the post I replied to is in this very
>> thread, maybe it was your reply that was misdirected to this one rather
>> than the one you had intended.
>
> may seem that way to you

And just about anyone else who reads these news groups. Odd that you
are the only one who might think differently isn't it?

>>>>>> Most of have no need of a reminder, thanks. Maybe you feel the need to
>>>>>> remind others, and now that you have done so please refrain from further
>>>>>> spam.
>>>>> well again that depend on other when they make it clear they don't get
>>>>> then they will reminded yes along with yourself and other sadly that
>>>>> is the way the usenet works
>>>> Again, your use of the English language is a bit ... vague.
>>> hardly vauge at all
>> I assume that English is your primary language, right?
> you are then truly an assume
>
>> Does your news
>> reader have a spelling checker on/in it?
> no
>> Have you ever used such a
>> subprogram?
> yes
>
>> If not I'd like to suggest that you become familiar with

>> its use.
> why?

Once again, I'd try and explain it but I don't think I could keep the
words small enough for you.

>> Your spelling is absolutely atrocious, your syntax is worse,
>> and this combines to make your posts nearly unreadable.
>
> then don't read it if you like

You replied to my post dude, not the other way around.

>> Its not really
>> a difficult concept to grasp, and the program is quite intuitive. Its
>> built for those who cannot spell, in other words for someone just like
>> yourself (and I to be honest, but I have learned to use my spell-checkers).
>
> the question is why bother the only people that complain seem to be
> folks Id perfer to anoy rather than spend any extra effort trying to
> please
>

Ahh, so you are here for no other reason than to annoy others. I get it
now. Here in Usenet we call individuals like that "flamers", and in the
HAM world we call them assholes.

>>>
>>> it seems and to the point
>>>
>>> if other parties would demostrate they finaly understand then then a
>>> repeat will not be needed
>>>
>> Same at ya big guy.
>
> HUH?

Point, game, match.

>>> based on past performance I don't even if they understand that it will
>>> last at all
>>>
>>>>> indeed as certain of those that seem to need reminders are the
>>>>> subjects of FCC enforcement actions I help to generate I sadly expect
>>>>> that they will ned more remidners in the near future but that is up to
>>>>> them
>>>>>> Ron
>>>> You you feel that you are the one, the best qualified, to provide these
>>>> "reminders"?
>>> aboslotely
>> How so?
> by being so
>

>> Are you the worlds foremost user of code?
> no why do you ask?
> indeed I can't use it all
>
>> If so then I dearly
>> hope you spell better in code than you do here.
>
>
> why would I want t use to code?

Check the name of the thread. "Re: an ontopic post about code"

>
>> Imagine the bad name
>> you give to other HAM's with your spelling.
>
> no you give a bad name to hams by showing youself to be an asshole

I freely admit I'm an asshole, and I don't have a problem with it. I
can be an asshole here and be amongst a great number of them, therefore
being nearly unheard. In the HAM world, well lets just say that in the
local crowd I am far more cordial that you have shown yourself to be here.

>>> indeed as the targt of the remarks that indicate the need for a
>>> reminder I am thealmost the only one in the world able to ntice
>>>
>>>> With the sad state of your command of the English language I'd suspect
>>>> any claim that you generated an FCC action.
>>> ah now you are just being insultingand foolish
>> Honest, not insulting.
> no insulting the receiver gets to decide that

If you are willing to equate honesty with insulting then I cant imagine
what else you are willing to do to get your need to be the victim full
filled.

>
>> Please, review your posts to me in this thread.
>
> why?

Once again, I'd try and explain it but I don't think I could keep the
words small enough for you.

>
>> Read them one word at a time and then get back to me.
> why?
>> Can you
>> honestly say that they make sense?
> yes

Maybe I'm wrong then, maybe English is not your native tongue. That
would explain your inability to write it coherently.

>
>> That the spelling is above par for
>> an individual who's primary language is reported to be English?
> huh?
>
>>>> Kindly allow the individual to whom I posted the original "post" to
>>>> answer.
>>> alow myself to post? how could I stopp anyone form posting indeed If I
>>> had that power I would used it
>>> and if I had the power to stop someone from posting no one would
>>> need remeinding
>> Actually, unless you use more than one name/account to post with, the
>> original individual I was posting to goes by the name of
>> "dloydlavies@gmail.com".
> I do your point
>
>> The current account you are posting from is
>> "k3vr@hotmail.com". Significant difference there, don't you think?
>
> no they are the same person

Ahh, so you post from multiple accounts. Interesting. Honesty is not
your forte I take it.

>
>> Assuming that your account name here corresponds to a HAM call, then it
>> would be even more simple to assume that anyone named Brian, residing in
>> Florida, speaks English as his first language.
>
> well brain does not live in florida he lives in PA and lies to the fcc

I'm sure "brain" does, but Brian is reported to be in Florida. And
lying to the FCC is a very bad idea. Specially if one wants to keep
one's HAM license.

>
>>>> If he can that is. Somehow I doubt that anything beyond spam
>>>> is a reach for him.
>>> HUH?
>> I'd explain it, but I don't think I could keep the words small enough
>> for you.
>
> back to ad homin attack and insult boring

Nothing ad-hominem about it. Accurate and to the point. Something you
have taken great pains to prove for me.

Ron

1075. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 23:19:17 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mpvbp41ivi2damc0iei5g9om9vsavumkqn@4ax.com>
Source record: 17699

On Fri, 13 Feb 2009 22:55:52 GMT, "Ken Fowler" <ko6no@yahoo.com>
wrote:

>
>http://www.qsl.net/nb6gc/
>

Hi Ken,

Very nice. All those R390s, R1051s, RBBs; but only one URC-32????? I
didn't see much familiar UHF/VHF either (SRC20/21).

Does any of this gear have power? Antenna access?

73's
Richard Clark, KB7QHC

1076. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-13 23:48:20 UTC
From: who are you? <fredflintstone@one.com>
Message-ID: <gn50s4fuj1@news.albasani.net>
Source record: 17700
Cross-posted to: rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced,rec.radio.shortwave

On Wed, 11 Feb 2009 19:03:31 +0000, Bill Wright wrote:
> Hello everyone,
>
> Bill Wright here. Please have the patience
> to read this! You could really help us achieve something worthwhile.
> The digital rip-off: your help needed
>

Welcome to the debate between Capitalism and Socialism!

Do you regulate the industry to keep free TV?!, or are we using
capitalism as a tool of communism once the industry is consolidated to
one or two world-wide corporations under republican control?

1077. Re: UPDATED TEXT OF STALKING CONVICTIONS FOR ROBERT L TRENDEL, KD8IMG

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 00:00:54 UTC
From: mopezakween@yahoo.com
Message-ID: <13944b07-be15-4a9c-ae25-374749938e1e@m22g2000vbl.googlegroups.com>
Source record: 17501
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 13, 1:18 pm, mopezakw...@yahoo.com wrote:
> Conviction 1
>
> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:16:32 PM
> DATE: 2/13/2009
>
> CASE: G -4801 -CI -200802161-000
> TITLE: LEE VS TRENDEL
> JUDGE: JAMES D. BATES   STATUS: CLOSED/TERM'D
> FILING DATE: 2/20/2008 CASE TYPE: CPO   STALK CIV PROTECT ORD -
> MISC
>
> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:
>
> ---
> Party   Counsel
> Plaintiff 1:
> LEE KATHLEEN
>
> Defendant 1:
> TRENDEL ROBERT
>
> Alias(es)
> TRENDEL ROBERT
>
> ---
> DATE SEQ EVENT
>
> 2/20/2008 1 Title : OPN:CPO PETITION FILED
>   PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 1 Title : ORD:REQ'T EXT TO PLD GRANTED
>   EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
>   HEARING TO FEB. 29, 2008 AT 1 P.M.
>   PARTY : -
>

> 2/21/2008 3 Title : MIS:COURTROOM CASE NOTES
>   SENT EX PARTE ORDER ORDINARY MAIL TO RESPONDENT, ROBERT
>   TRENDEL.
>   PARTY : -
>
> 2/21/2008 4 Title : EVT:CPO SENT SHERIFF FOR SERVE
>   COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
>   LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
>   ROBERT L TRENDEL
>   PARTY : D1 - TRENDEL ROBERT
>
> 2/21/2008 5 Title : EVT:HAND DELIV SERVE BY BAILIF
>   NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
>   THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
>   PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
>   PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 6 Title : SRV:COPIES MAILED
>   COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 7 Title : EVT:EX PARTE CPO FILED/JOUR
>   EJOURNALIZED 2-27-08
>   PARTY : P1 - LEE KATHLEEN
>
> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
>   LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
>   CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
>   THAT THERE WAS NO RESPONSE TO NOTES LEFT
>   PARTY : D1 - TRENDEL ROBERT
>
> 2/29/2008 1 Title : ORD:ORDER
>   Court reporter Kim Kohls ordered. The matter was called
>   for a full hearing on February 29, 2008, on a request for
>   a Civil Protection Stalking Order filed on February 20,
>   2008. Petitioner KATHLEEN LEE was present. Respondent
>   ROBERT TRENDEL was present with his attorney DAVID F.
>   WILEY. At the request of Respondent, the full hearing is
>   continued until March 13, 2008 at 1:00 p.m. IT IS
>   THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing
>   scheduled for February 29, 2008, is ORDERED continued
>   until March 13, 2008 at 1:00 p.m.
>   IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking
>   Protection Order granted on February 21, 2008, shall
>   remain in full force and effect until March 13, 2008.
>
>   See Order.
>   PARTY : -

>
> 2/29/2008 2 Title : HRG:HEARING SET
>   FULL HEARING 3/13/08 1:00 P.M.
>   PARTY : -
>
> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
>   JOURNALIZED 03/05/2008
>   PERTAINING TO ORDER TO CONTINUE CSPO HEARING TO 3/13/08
>   PARTY : P1 - LEE KATHLEEN
>
> 3/3/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING
>   PROTECTION ORDER TO 3/13/2008 AT 1:00 P.M. IN
>   COURTROOM #2 MAILED ORDINARY TO PETITIONER AND RESPONDENT
>   AND TO DAVID WILEY ATTORNEY.
>
>   COPIES ALSO LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
>   FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL FORCE
>   AND EFFECT THROUGH 3-12-2010.
>   PARTY : -
>
> 3/13/2008 2 Title : CLS:CPO CLOSED
>   PARTY : -
>
> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   CHRIS IN COURTROOM #2 PERSONALLY SERVED BOTH THE PETITIONER
>   AND RESPONDENT WITH COPIES OF CIVIL STALKING PROTECTION
>   ORDER FULL HEARING
>   PARTY : P1 - LEE KATHLEEN
>
> 3/14/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF CIVIL STALKING PROTECTION ORDER AND FORM 10-A NCIC
>   LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND
>   TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
>   EJOURNALIZED 03/14/2008
>   PERTAINING TO ORDER OF PROTECTION FULL HEARING
>   PARTY : P1 - LEE KATHLEEN
>
> 4/14/2008 1 Title : PLD:DOCKETING STATEMENT
>   PARTY : P1 - LEE KATHLEEN
>
> 4/14/2008 2 Title : PLD:PRAECIPE FILED
>   PARTY : P1 - LEE KATHLEEN

>
> 4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
>   PARTY : P1 - LEE KATHLEEN
>
> 4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
>   NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
>   TO KATHLEEN LEE
>   322 BURGER STREET
>   TOLEDO, OH 43605
>   PARTY : D1 - TRENDEL ROBERT
>
> 4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
>   L08-1111
>   PARTY : P1 - LEE KATHLEEN
>
> 5/5/2008 1 Title : PLD:PRAECIPE FILED
>   AMENDED PRAECIPE PURSUANT TO 6TH DIST.LOC.APP.R.3(B)
>   PARTY : P1 - LEE KATHLEEN
>
> Conviction 2, this one is even better...it is his NEXT DOOR NEIGHBOR
>
> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:18:30 PM
> DATE: 2/13/2009
>
> CASE: G -4801 -CI -200802176-000
> TITLE: SZYMANSKI VS TRENDEL
> JUDGE: JAMES D. BATES   STATUS: CLOSED/TERM'D
> FILING DATE: 2/21/2008 CASE TYPE: CPO   STALK CIV PROTECT ORD -
> MISC
>
> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:
>
> ---
> Party   Counsel
> Plaintiff 1:
> SZYMANSKI DONNA S
>
> Defendant 1:
> TRENDEL ROBERT L
>
> Alias(es)
> TRENDEL ROBERT
>
> ---

> DATE SEQ EVENT
>
> 2/21/2008 1 Title : OPN:CPO PETITION FILED
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 2 Title : JRE:EXISTING PENDING CASE
>   PARTY : -
>
> 2/21/2008 3 Title : EVT:CPO SENT SHERIFF FOR SERVE
>   COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
>   LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
>   ROBERT L TRENDEL
>   PARTY : D1 - TRENDEL ROBERT L
>
> 2/21/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
>   THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
>   PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 5 Title : SRV:COPIES MAILED
>   COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND A
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 7 Title : EX PARTE PROTECT ORD 2903.214
>   EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
>   HEARING ON 2-29-08 AT 1 P.M.
>   RESPONDENT SHALL NOT DISSEMINATE ANY INFORMATION ABOUT THE
>   OVER C.B. RADIO. THE RESPONDENT SHALL NOT APPEAR AT THE
>   POLICE DEPARTMENT FROM 2:30 P.M. TO 11:00 P.M WHILE THE
>   PETITIONER IS AT WORK.
>   PARTY : -
>
> 2/21/2008 8 Title : MIS:COURTROOM CASE NOTES
>   SENT EX PARTE ORDER TO RESPONDENT BY ORDINARY MAIL.
>   PARTY : -
>
> 2/21/2008 9 Title : EVT:EX PARTE CPO FILED/JOUR
>   EJOURNALIZED 2-26-08
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
>   LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
>   CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
>   THAT THERE WAS NO RESPONSE TO NOTES LEFT.
>   PARTY : D1 - TRENDEL ROBERT L
>
> 2/29/2008 1 Title : ORD:ORDER

>   Court reporter Kim Kohls ordered. The matter was called
>   for a full hearing on February 29, 2008, on a request for
>   a Civil Protection Stalking Order filed on February 21,
>   2008. Petitioner DONNAL S SZYMANSKI was present.
>   Respondent ROBERT L TRENDEL was present with his attorney
>   DAVID F. WILEY. At request of Respondent, the full
>   hearing is continued until March 13, 2008 at 1:00 p.m.IT
>   IS THEREFORE ORDERED, ADJUDGED AND DECREED that the
>   Hearing scheduled for February 29, 2008, is ORDERED
>   continued until March 13, 2008, at 1:00 p.m. IT IS
>   FURTHER ORDERED, that the Ex-Parte Civil Stalking
>   Protection Order granted on February 20, 2008, shall
>   remain in full force and effect until March 13, 2008.
>
>   See Order.
>   PARTY : -
>
> 2/29/2008 2 Title : HRG:HEARING SET
>   FULL HEARING 3/13/08 AT 1:00 P.M.
>   PARTY : -
>
> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
>   JOURNALIZED 03/05/2008
>   PERTAINING TO ORDER TO CONTINUING CSPO HEARING TO 3/13/08
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
>   FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL
>   FORCE AND EFFECT THROUGH 3-12-2010.
>   PARTY : -
>
> 3/13/2008 2 Title : CLS:CPO CLOSED
>   PARTY : -
>
> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
>   PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
>   BY CHRIS IN COURTROOM #2
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/14/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
>   EJOURNALIZED 03/14/2008
>   PERTAINING TO ORDER OF PROTECTION FULL HEARING
>   PARTY : P1 - SZYMANSKI DONNA S

>
> 4/14/2008 1 Title : PLD:PRAECIPE FILED
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 4/14/2008 2 Title : PLD:DOCKETING STATEMENT
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
>   PARTY : D1 - TRENDEL ROBERT L
>
> 4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
>   NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
>   TO CHRISTOPHER F. PARKER, ESQ
>   405 MADISON AVE, SUITE 2200
>   TOLEDO, OH 43604-1224
>   PARTY : D1 - TRENDEL ROBERT L
>
> 4/15/2008 3 Title : MIS:CLERKS OFFICE NOTES
>   PETITION FOR EX PARTE CIVIL STALKING PROTECTION ORDER
>   WAS NOT FILE STAMPED ON 2/21/2008. FILED STAMPED ON 4/15/08
>   PARTY : P1 -
> ...
>
> read more »
Faggot-boi said: get a life
I say:
Go die slowly of painful deep bowel cancer.

1078. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 00:46:29 UTC
From: mat_62@netcommander.com
Message-ID: <2b40ffe2-346c-41e1-aca8-9bd32fc48393@v39g2000yqm.googlegroups.com>
Source record: 17502

Thanks Guys for the answers. I'm hoping to tune the antenna with the internal tuner on my radio. It's not a wide range tuner though so I may have to work with some type of matching solution at the base. What my reading on ground mounted quarter wave verticals makes me think is that I'd want about 16 radials. That qualifies as a bunch to me...hi hi... Easier in my mind to raise the base of the antenna 8 to 10 feet off the ground and use a couple of elevated radials.
I think the mast will be ok structurally speaking mounted to the house. It held up rotators and a small satellite array for years without pulling the wall down. It will still be attached at ground level with some type of non conductive support. The mounting bracket won't be the only thing holding it, in other words.
What I'm after here with this project is better low angle radiation for the purpose of working DX. My present 40 meter antenna is a dipole that is only about 20 feet of the ground. Not ideal as I'm sure you guys well know.

1079. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 01:32:03 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <c27cp4lphvirbjdssp8007rftbmkqlhlfh@4ax.com>
Source record: 17503

On Fri, 13 Feb 2009 16:46:29 -0800 (PST), mat_62@netcommander.com
wrote:

>What I'm after here with this project is better low angle radiation
>for the purpose of working DX. My present 40 meter antenna is a dipole
>that is only about 20 feet of the ground. Not ideal as I'm sure you
>guys well know.

Hi Michael,

Your goal is admirable. Your goal shares the same aspiration of many
others who select a vertical antenna. We hear this goal quite often
as a reason for its choice. Unfortunately....

The greatest indicator of success in achieving low angle radiation for
a vertical antenna is actually found many wavelengths away from your
antenna - in the quality of the soil surrounding it at this distance.
The quality can be roughly determined by general descriptive
categories (like living next to a swamp or the ocean); or by reviewing
the FFC's ground charts.

Significant elevation of a vertical can reduce ground loss through
distance. It has been reported that the need for large numbers of
radials declines with this distance. You might think of hiking your
vertical higher. This reduction of loss translates into better
performance at lower angles, but it is not in its own right a solution
to better low angle performance as may be expected from simple
diagrams found in elementary discussion.

The best you can hope for is keeping both antennas, and trading from
one to the other for their diversity (when one won't work, the other
might). It serves no purpose to launch your RF off at 1 degree above
the horizon when it would only land in the Atlantic, skip a continent,
and land in the Indian Ocean. Propagation conditions will always
trump intention.

73's
Richard Clark, KB7QHC

1080. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 04:53:56 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <F7sll.638$Si4.601@newsfe22.iad>
Source record: 17504

"JB" <nospam@goofball.net> wrote in message
news:Sghll.42$Bl.2@nwrddc01.gnilink.net...

< snip >

> > The vehicle bonding and grounding is more important than the aerial part
> > IMO.
> >
> > - 73 de Mike N3LI -
>
> The frame is the only substantial ground and certainly most effective for
40
> meters. Use of the corners of the vehicle might actually get you a
> counterpoise on 20. What you really need is a trailing wire, dragging a
> cast iron stove.

Ah! The most fervent counterpoise argument I can recall.

1081. Mark Morgan, Veteran?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 07:23:43 UTC
From: Tinker Bell <anon@anon>
Message-ID: <2j2gv4.o5j.17.1@news.alt.net>
Source record: 17505
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

One of the locals found a site on which Mark claimed to be 40 yoa. That was in 2006.
He would have been born in 1966.
Which means that if Mark was in Nam, as he claimed, he'd have to have been 9 years old in 1975 when our troops pulled out. Seven years old if he were in the thick of things.
Maybe he WAS there...as a shoe shine boy.
How do you spell Liar?

1082. Re: Mark Morgan, Veteran?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 07:33:56 UTC
From: kb9rqz <kb9rqz@punce.net>
Message-ID: <499673f0$0$3340$6e1ede2f@read.cnntp.org>
Source record: 17506
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

"Tinker Bell" <anon@anon> wrote in message
news:2j2gv4.o5j.17.1@news.alt.net...
> One of the locals found a site on which Mark claimed to be 40 yoa. That
> was in 2006.
> He would have been born in 1966.
> Which means that if Mark was in Nam, as he claimed, he'd have to have been
> 9 years old in 1975 when our troops pulled out. Seven years old if he were
> in the thick of things.
> Maybe he WAS there...as a shoe shine boy.
> How do you spell Liar?
>
>
>
punce gotcha?

1083. Re: with the puce gotcha

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 09:09:37 UTC
From: Tinker Bell <anon@anon>
Message-ID: <2j2n5l.kg0.19.1@news.alt.net>
Source record: 17507
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.misc,rec.radio.amateur.policy

Yup...caught Mark in yet another of his many lies.
He claimed that he was drafted into the Army as
1: A Lt. Colonel.
2. As a Second Lt.
3. Served in the Chemical Corp

the rest is pure bull hockey...

Now he claims to have served in Vietnam.

The last ten Marines were airlifted from Nam in 1975 as Saigon fell.

If Mark is 40 years old as he said in 2006, then that means that he was born
in 1966.
That would have made Mark NINE YEARS OLD when the last Marines were leaving
Vietnam.

And that, my friends, equates to Mark C. Morgan being one huge liar.

"kb9rqz" <kb9rqz@punce.net> wrote in message
news:49967483$0$3340$6e1ede2f@read.cnntp.org...
> he wonder why i simple.
>

1084. Attacks on the ionosphere give strange effects on reception.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 12:02:58 UTC
From: "D. Travis" <no@mail.com>
Message-ID: <4996b31a$0$24149$6d4158fb@reader.xsnews.nl>
Source record: 17508

The better articles on radio reception:

"For instance, a registered nurse in Seattle was driving home from work at 2:00 a.m. listening
to a local program on her car radio. The station faded--a blackout--and was moments later replaced by country music from Omaha, Nebraska. On the US east coast, where dawn was breaking at the time, hams chatting locally suddenly picked up voice transmissions from distant parts of Canada. Strange.

These propagation effects, so much like those experienced during ordinary solar flares, quickly subsided. No harm was done. Nevertheless, the event made a deep impression on astronomers. From halfway across the galaxy, SGR 1900+14 had "touched" our planet."

Few month ago i had exactly the same effects on the mediumwave here. Thats the E.U.
It is best observed with a portable radio of the good sort.

1085. An Introduction, "I Am A Gay Pagan Draftee Officer"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 14:24:55 UTC
From: kb9rqz <kb9rqz@punce.net>
Message-ID: <4996d442$0$3339$6e1ede2f@read.cnntp.org>
Source record: 17509
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.misc,rec.radio.amateur.policy

http://newsgroups.derkeiler.com/Archive/Rec/rec.radio.amateur.policy/2006-03/msg00398.html

1086. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 21:02:57 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <9haep4d357h3fta0jcnctje5lf0sdj0hgo@4ax.com>
Source record: 17510

On Fri, 13 Feb 2009 11:00:06 -0800 (PST), mat_62@netcommander.com
wrote:

>I have a Rohn 30 foot telescoping mast that I'd like to use as the
>vertical element of a 40 meter ground plane. My idea is to add 3 feet
>of pipe to the top of it to make it the required 33 ft. long.
>I want to elevate the bottom of it about 8 feet of the ground and run
>a couple of quarter wave wire radials out from it. This way they can
>be walked under.
> My questions are these...
>The ground slopes upward in one direction that I need to run a radial.
>The radial will have to have an upward sweep in order to maintain the
>clearance needed to walk under it. Will this be an issue?
>
>The mast will be attached to my house to help support it. I can
>insulate it from the mounting bracket with no problem. What I'm
>wondering is with the fact of the mast being right up against the
>house and not in the clear, how much will the performance of the
>antenna be affected?
>
>I have come up with this idea of a groundplane because I don't want to
>deal with burying a whole bunch of radials in the ground. Think it
>will work?
>Tnx for any advice and suggestions and 73,
>Michael, W4HIJ
>

As a kid, I had a 33-foot 40 meter groundplane of suplus aluminum
tubing, supported by the house and a few guy wires. There were 4 or 5
buried radials, and it worked nicely on 15 watts CW with the
pi-network output of a Heath AT-1 transmitter. I can't think of why
your proposed antenna shouldn't work. The main issue might be high rf
power playing havoc with your house electricals.

bob
k5qwg

1087. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 21:45:26 UTC
From: k3vr@hotmail.com
Message-ID: <i4eep4lvuhb1q039ul4d2no9skgdun727t@4ax.com>
Source record: 17511
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 13 Feb 2009 17:03:04 -0600, Ron <apositiveplace@netscape.net>
wrote:

>k3vr@hotmail.com wrote:
>> On Wed, 11 Feb 2009 16:33:38 -0600, Ron <apositiveplace@netscape.net>
>> wrote:
>>
>>> k3vr@hotmail.com wrote:
>>>> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositiveplace@netscape.net>
>>>> wrote:
>>>>
>>>>> k3vr@hotmail.com wrote:
>>>>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>

>Once again, I'd try and explain it but I don't think I could keep the
>words small enough for you.

meaning youintent was to be insulting nothing more

try being honest

>
>>> Your spelling is absolutely atrocious, your syntax is worse,
>>> and this combines to make your posts nearly unreadable.
>>
>> then don't read it if you like
>
>You replied to my post dude, not the other way around.

you started the exachane

and again if you don't like what reading my post ypost you don't have
to

I OTOH will contiue to reply to whatever posts I wish however I wish
>
>>> Its not really
>>> a difficult concept to grasp, and the program is quite intuitive. Its
>>> built for those who cannot spell, in other words for someone just like
>>> yourself (and I to be honest, but I have learned to use my spell-checkers).
>>
>> the question is why bother the only people that complain seem to be
>> folks Id perfer to anoy rather than spend any extra effort trying to
>> please
>>
>

>Ahh, so you are here for no other reason than to annoy others.

lying again

but it is tru I don't cae if you and/or others are anoyed

if you understood enligh you understand that difference

>now. Here in Usenet we call individuals like that "flamers", and in the
>HAM world we call them assholes.

lkike yourself asshole

you want to control and any other

I saimply don't care one or the other and I certainly don't care
enough to spend extra to avoid anoying asshole like you

>>
>> why would I want t use to code?
>
>Check the name of the thread. "Re: an ontopic post about code"

again what was your point that I am talking about code and it effects
has nothing to do with wanintg to use code

indeed seeing the effect on so many brain I should no sane person
would risk using code

>
>>
>>> Imagine the bad name
>>> you give to other HAM's with your spelling.
>>
>> no you give a bad name to hams by showing youself to be an asshole
>
>I freely admit I'm an asshole, and I don't have a problem with it.

so why are you whining?
> I
>can be an asshole here and be amongst a great number of them, therefore
>being nearly unheard. In the HAM world, well lets just say that in the
>local crowd I am far more cordial that you have shown yourself to be here.

so?
>
>>>> indeed as the targt of the remarks that indicate the need for a
>>>> reminder I am thealmost the only one in the world able to ntice
>>>>
>>>>> With the sad state of your command of the English language I'd suspect
>>>>> any claim that you generated an FCC action.
>>>> ah now you are just being insultingand foolish
>>> Honest, not insulting.
>> no insulting the receiver gets to decide that

>
>If you are willing to equate honesty with insulting then I cant imagine
>what else you are willing to do to get your need to be the victim full
>filled.

bioing crow realy boring

you are not being honest just insulting and dishoenst

iondeed I gather you hardly understand what honsty isd

>
>>
>>> Please, review your posts to me in this thread.
>>
>> why?
>
>Once again, I'd try and explain it but I don't think I could keep the
>words small enough for you.

again you reveal you are just being insulting

know what is written as you

>
>>
>>> Read them one word at a time and then get back to me.
>> why?
>>> Can you
>>> honestly say that they make sense?
>> yes
>
>Maybe I'm wrong then, maybe English is not your native tongue. That
>would explain your inability to write it coherently.

such is not required

indeed in making you work for the meaning youwill value it more hence
incoherent writing is more usefull

trhat is the sort of thing that the coders were in fact pushing
>
>>
>>> That the spelling is above par for
>>> an individual who's primary language is reported to be English?
>> huh?
>>
>>>>> Kindly allow the individual to whom I posted the original "post" to
>>>>> answer.
>>>> alow myself to post? how could I stopp anyone form posting indeed If I
>>>> had that power I would used it
>>>> and if I had the power to stop someone from posting no one would
>>>> need remeinding

>>> Actually, unless you use more than one name/account to post with, the
>>> original individual I was posting to goes by the name of
>>> "dloydlavies@gmail.com".
>> I do your point
>>
>>> The current account you are posting from is
>>> "k3vr@hotmail.com". Significant difference there, don't you think?
>>
>> no they are the same person
>
>Ahh, so you post from multiple accounts. Interesting.

why do you
>
>>
>>> Assuming that your account name here corresponds to a HAM call, then it
>>> would be even more simple to assume that anyone named Brian, residing in
>>> Florida, speaks English as his first language.
>>
>> well brain does not live in florida he lives in PA and lies to the fcc
>
>I'm sure "brain" does, but Brian is reported to be in Florida.

but he does no
t
> And
>lying to the FCC is a very bad idea.
sadly facts have proven that not to be and Lying to the FCC is all but
rutine and gos unpunished

as witnessed by crow himself

> Specially if one wants to keep
>one's HAM license.

who is going to take it ? the FCC?

bah

>
>>
>>>>> If he can that is. Somehow I doubt that anything beyond spam
>>>>> is a reach for him.
>>>> HUH?
>>> I'd explain it, but I don't think I could keep the words small enough
>>> for you.
>>
>> back to ad homin attack and insult boring
>
>Nothing ad-hominem about it.
nothing about such stop lying and try being honest
or me.

>
>Ron

1088. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 21:45:32 UTC
From: k3vr@hotmail.com
Message-ID: <qreep4d24uo75d72s06k7o13dliptpi6cj@4ax.com>
Source record: 17512
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

1089. get kelp ab

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 22:01:08 UTC
From: k3vr@hotmail.com
Message-ID: <eofep45c0euhbq8n805bgshrsuj1udvpcc@4ax.com>
Source record: 17513
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.misc,rec.radio.amateur.policy

On Sat, 14 Feb 2009 09:24:55 -0500, "kb9rqz" <kb9rqz@punce.net> wrote:

>htt
fake

1090. get kelp ab

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 22:01:51 UTC
From: k3vr@hotmail.com
Message-ID: <ipfep4t5qmdahjhbv0oa4va29us88fr3s0@4ax.com>
Source record: 17514
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.misc,rec.radio.amateur.policy

On Sat, 14 Feb 2009 04:09:37 -0500, "Tinker Bell" <anon@anon> wrote:

>Yup...caught Mark in yet another of his many lies.
>He claimed that he was drafted into the Army as

never made anysuch claim

1091. get kelp ab

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-14 22:05:17 UTC
From: k3vr@hotmail.com
Message-ID: <6rfep4l2rm6rntfsg5r35bc18pmgm88nhn@4ax.com>
Source record: 17515
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sat, 14 Feb 2009 02:23:43 -0500, "Tinker Bell" <anon@anon> wrote:

>One of the locals found a site on which Mark claimed to be 40 yoa. That was
>in 2006.
>He would have been born in 1966.

1964 in fact

>Which means that if Mark was in Nam

never claimed I was ever in Nam asshole
>, as he claimed, he'd have to have been 9
>years old in 1975 when our troops pulled out. Seven years old if he were in
>the thick of things.
>Maybe he WAS there...as a shoe shine boy.
>How do you spell Liar?
"Tinker Bell"

was never in nam never claimed to be in nam never cliamed I my ebtry
into the armed was a aresult of seletive serivice

I have used the trem drat to refer to being forced to work on
something under the threat of being recalled to active duty based on
resevse status

you are just lying and too gutless to even sign the lie

1092. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 00:36:42 UTC
From: Ron <apositiveplace@netscape.net>
Message-ID: <msJll.2710$cl2.965@newsfe09.iad>
Source record: 17516
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

```
k3vr@hotmail.com wrote:
> On Fri, 13 Feb 2009 17:03:04 -0600, Ron <apositiveplace@netscape.net>
> wrote:
>
>> k3vr@hotmail.com wrote:
>>> On Wed, 11 Feb 2009 16:33:38 -0600, Ron <apositiveplace@netscape.net>
>>> wrote:
>>>
>>>> k3vr@hotmail.com wrote:
>>>>> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositiveplace@netscape.net>
>>>>> wrote:
>>>>>
>>>>>> k3vr@hotmail.com wrote:
>>>>>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositiveplace@netscape.net>
>
>> Once again, I'd try and explain it but I don't think I could keep the
>> words small enough for you.
>
> meaning youintent was to be insulting nothing more
>
> try being honest

Oh no, this time you got it 100% correct. But then again so did I.

>
>>>> Your spelling is absolutely atrocious, your syntax is worse,
>>>> and this combines to make your posts nearly unreadable.
>>> then don't read it if you like
>> You replied to my post dude, not the other way around.
>
> you started the exachane
>
> and again if you don't like what reading my post ypost you don't have
> to
>
> I OTOH will contiue to reply to whatever posts I wish however I wish
>>>> Its not really
>>>> a difficult concept to grasp, and the program is quite intuitive. Its
>>>> built for those who cannot spell, in other words for someone just like
>>>> yourself (and I to be honest, but I have learned to use my spell-checkers).
>>> the question is why bother the only people that complain seem to be
>>> folks Id perfer to anoy rather than spend any extra effort trying to
>>> please
>>>
```

>> Ahh, so you are here for no other reason than to annoy others.
>
> lying again

Not really, just paraphrasing your response.

>
> but it is tru I don't cae if you and/or others are anoyed
>
> if you understood enligh you understand that difference

If you wrote English it sure would make it easier to understand your
meaning.

>
>> now. Here in Usenet we call individuals like that "flamers", and in the
>> HAM world we call them assholes.
>
> lkike yourself asshole
>
> you want to control and any other
>
> I saimply don't care one or the other and I certainly don't care
> enough to spend extra to avoid anoying asshole like you
>
>

Like I said, I freely admit I'm an asshole. And now its your turn.

>
>>> why would I want t use to code?
>> Check the name of the thread. "Re: an ontopic post about code"
>
> again what was your point that I am talking about code and it effects
> has nothing to do with wanintg to use code

You weren't talking about code, as far as I could tell you were not
talking about anything. Just spamming.

>
> indeed seeing the effect on so many brain I should no sane person
> would risk using code
>
>>>> Imagine the bad name
>>>> you give to other HAM's with your spelling.
>>> no you give a bad name to hams by showing youself to be an asshole
>> I freely admit I'm an asshole, and I don't have a problem with it.
>
> so why are you whining?

Being an asshole is far better than being a spamming asshole.

>> I
>> can be an asshole here and be amongst a great number of them, therefore
>> being nearly unheard. In the HAM world, well lets just say that in the
>> local crowd I am far more cordial that you have shown yourself to be here.
>
> so?
>>>>> indeed as the targt of the remarks that indicate the need for a
>>>>> reminder I am thealmost the only one in the world able to ntice
>>>>>
>>>>>> With the sad state of your command of the English language I'd suspect
>>>>>> any claim that you generated an FCC action.
>>>>> ah now you are just being insultingand foolish
>>>> Honest, not insulting.
>>> no insulting the receiver gets to decide that
>> If you are willing to equate honesty with insulting then I cant imagine
>> what else you are willing to do to get your need to be the victim full
>> filled.
>
> bioing crow realy boring

And in English that means?

>
> you are not being honest just insulting and dishoenst
>
>
> iondeed I gather you hardly understand what honsty isd
>
>>>> Please, review your posts to me in this thread.
>>> why?
>> Once again, I'd try and explain it but I don't think I could keep the
>> words small enough for you.
>
> again you reveal you are just being insulting
>
> know what is written as you
>
>>>
>>>> Read them one word at a time and then get back to me.
>>> why?
>>>> Can you
>>>> honestly say that they make sense?
>>> yes
>> Maybe I'm wrong then, maybe English is not your native tongue. That
>> would explain your inability to write it coherently.
>
> such is not required

Only to you.

>
> indeed in making you work for the meaning youwill value it more hence

> incoherent writing is more usefull
>
> trhat is the sort of thing that the coders were in fact pushing
>>>> That the spelling is above par for
>>>> an individual who's primary language is reported to be English?
>>> huh?
>>>
>>>>>> Kindly allow the individual to whom I posted the original "post" to
>>>>>> answer.
>>>>> alow myself to post? how could I stopp anyone form posting indeed If I
>>>>> had that power I would used it
>>>>> and if I had the power to stop someone from posting no one would
>>>>> need remeinding
>>>> Actually, unless you use more than one name/account to post with, the
>>>> original individual I was posting to goes by the name of
>>>> "dloydlavies@gmail.com".
>>> I do your point
>>>
>>>> The current account you are posting from is
>>>> "k3vr@hotmail.com". Significant difference there, don't you think?
>>> no they are the same person
>> Ahh, so you post from multiple accounts. Interesting.
>
>
> why do you

I don't, and that is only a part of what makes me honest. Give it a try
guy, you might find it refreshing.

>>>> Assuming that your account name here corresponds to a HAM call, then it
>>>> would be even more simple to assume that anyone named Brian, residing in
>>>> Florida, speaks English as his first language.
>>> well brain does not live in florida he lives in PA and lies to the fcc
>> I'm sure "brain" does, but Brian is reported to be in Florida.
>
> but he does no
> t
>> And
>> lying to the FCC is a very bad idea.
> sadly facts have proven that not to be and Lying to the FCC is all but
> rutine and gos unpunished

Until such time as someone makes the lies known to the FCC. Then ...
well lets just say that the letters start.

>
> as witnessed by crow himself
>
>> Specially if one wants to keep
>> one's HAM license.
>

> who is going to take it ? the FCC?
>
> bah
>
>>>>>> If he can that is. Somehow I doubt that anything beyond spam
>>>>>> is a reach for him.
>>>>> HUH?
>>>> I'd explain it, but I don't think I could keep the words small enough
>>>> for you.
>>> back to ad homin attack and insult boring
>> Nothing ad-hominem about it.
> nothing about such stop lying and try being honest
> or me.
>> Ron

Try looking up the meaning of the term. Get back to me when you get done.

Ron

1093. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 01:47:21 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <d2a5dc5f-8b34-4bc1-be96-b3dfcd4933a4@q40g2000prh.googlegroups.com>
Source record: 17517
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 14, 7:36 pm, Ron <apositivepl...@netscape.net> wrote:
> k...@hotmail.com wrote:
> > On Fri, 13 Feb 2009 17:03:04 -0600, Ron <apositivepl...@netscape.net>
> > wrote:
>
> >> k...@hotmail.com wrote:
> >>> On Wed, 11 Feb 2009 16:33:38 -0600, Ron <apositivepl...@netscape.net>
> >>> wrote:
>
> >>>> k...@hotmail.com wrote:
> >>>>> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositivepl...@netscape.net>
> >>>>> wrote:
>
> >>>>>> k...@hotmail.com wrote:
> >>>>>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositivepl...@netscape.net>
>
> >> Once again, I'd try and explain it but I don't think I could keep the
> >> words small enough for you.
>
> > meaning youintent was to be insulting nothing more
>
> > try being honest
>
> Oh no, this time you got it 100% correct. But then again so did I.
>
>
>
>
>
>
>
> >>>> Your spelling is absolutely atrocious, your syntax is worse,
> >>>> and this combines to make your posts nearly unreadable.
> >>> then don't read it if you like
> >> You replied to my post dude, not the other way around.
>
> > you started the exachane
>
> > and again if you don't like what reading my post ypost you don't have
> > to
>
> > I OTOH will contiue to reply to whatever posts I wish however I wish
> >>>> Its not really

> >>>> a difficult concept to grasp, and the program is quite intuitive. Its
> >>>> built for those who cannot spell, in other words for someone just like
> >>>> yourself (and I to be honest, but I have learned to use my spell-checkers).
> >>> the question is why bother the only people that complain seem to be
> >>> folks Id perfer to anoy rather than spend any extra effort trying to
> >>> please
>
> >> Ahh, so you are here for no other reason than to annoy others.
>
> > lying again
>
> Not really, just paraphrasing your response.
>
>
>
> > but it is tru I don't cae if you and/or others are anoyed
>
> > if you understood enligh you understand that difference
>
> If you wrote English it sure would make it easier to understand your
> meaning.

since it is bsivlous beyond your understand maybe you should stfu

1094. Lost accounts? Thank DeLorean.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 07:34:27 UTC
From: Joe Partlan <anon@anon>
Message-ID: <2j55v7.i9c.17.1@news.alt.net>
Source record: 17518
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

How many accounts has DeLorean stripped you of, Mark?

I know that you've lost quite a few of late.

You can't trust that darned DeLorean, Mark. He is always there, lurking and watching you. He has become your unwelcome shadow.

Just when you think that you have thwarted one of his Bots, he designs yet another and shows you to be an ignorant fool. DeLorean is light years ahead of you, Mark. But so are many others, too.

When will it finally dawn on you, Mark, that you are simply not wanted in these groups?

Does someone have to hit you over the head with a two by four to get your attention?

1095. Mark's posts dwindling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 10:12:44 UTC
From: Toddie <anon@anon>
Message-ID: <2j5f81.rrv.17.1@news.alt.net>
Source record: 17519
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

Mark is running out of accounts.
His floods are slowing to a trickle.

DeLorean is the reason, or so Mark says.

Damn those DeLorean bots!

Just when Mark thinks that he has a new account or two, DeLorean sneaks in and works his magic. Poof! Just like that, Mark loses another account.

Mark...live and please learn. You are not welcome. Nobody likes you. You are your own worst enemy.

1096. get kelp ag

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 17:44:32 UTC
From: k3vr@hotmail.com
Message-ID: <c1lgp4lm67fplis9ttdtoj8a6tr6bip1b5@4ax.com>
Source record: 17520
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

On Sun, 15 Feb 2009 05:12:44 -0500, "Toddie" <anon@anon> wrote:

>Mark is running out of accounts.

not hardly

>His floods are slowing to a trickle.

because yours are
>
>DeLorean is the reason, or so Mark says.

no I say nothing of the sort
>
>Damn those DeLorean bots!
>
>Just when Mark thinks that he has a new account or two, DeLorean sneaks in
>and works his magic. Poof! Just like that, Mark loses another account.

so
>
>Mark...live and please learn. You are not welcome. Nobody likes you. You are
>your own worst enemy.

ah you are so scared of f little ole me
>

1097. get kelp ag

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 17:46:53 UTC
From: k3vr@hotmail.com
Message-ID: <c4lgp4p3n00vjr1ermf4jjcqdoqt6inqbg@4ax.com>
Source record: 17521
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Sun, 15 Feb 2009 02:34:27 -0500, "Joe Partlan" <anon@anon> wrote:

>How many accounts has DeLorean stripped you of, Mark?

who care I can make hunders more
>
>I know that you've lost quite a few of late.
>
>You can't trust that darned DeLorean, Mark. He is always there, lurking and
>watching you. He has become your unwelcome shadow.

that is because he/you are stalkers nothing more

>
>Just when you think that you have thwarted one of his Bots, he designs yet
>another and shows you to be an ignorant fool. DeLorean is light years ahead
>of you, Mark. But so are many others, too.

so he enges in cyber crime makes him a bad ham and you a bda ham for
helping encouring him
>
>When will it finally dawn on you, Mark, that you are simply not wanted in
>these groups?

mattrers not
>
>Does someone have to hit you over the head with a two by four to get your
>attention?

sure thing when you ging to try it

I'll ell you when the 4th of never
>
>
>
>
>
>
>
>
>
>
>

1098. unsing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 20:44:44 UTC
From: Toddie <anon@anon>
Message-ID: <2j6k8v.st2.17.1@news.alt.net>
Source record: 17522
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

<k3vr@hotmail.com> wrote in message
news:c1lgp4lm67fplis9ttdtoj8a6tr6bip1b5@4ax.com...
> On Sun, 15 Feb 2009 05:12:44 -0500, "Toddie" <anon@anon> wrote:
>
>>Mark is running out of accounts.
>
> not hardly
>
>>His floods are slowing to a trickle.
>
> because yours are
>>
>>DeLorean is the reason, or so Mark says.
>
> no I say nothing of the sort
>>
>>Damn those DeLorean bots!
>>
>>Just when Mark thinks that he has a new account or two, DeLorean sneaks in
>>and works his magic. Poof! Just like that, Mark loses another account.
>
> so
>>
>>Mark...live and please learn. You are not welcome. Nobody likes you. You
>>are
>>your own worst enemy.
>
> ah you are so scared of f little ole me
>>
he he is unsing
he he is unsing
he he is unsing
he he is unsing
wherea aas deleoan
wherea aas deleoan
wherea aas deleoan

1099. unsing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 20:48:03 UTC
From: Toddie <anon@anon>
Message-ID: <2j6kf6.trp.17.1@news.alt.net>
Source record: 17523
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

<k3vr@hotmail.com> wrote in message
news:c4lgp4p3n00vjr1ermf4jjcqdoqt6inqbg@4ax.com...
> On Sun, 15 Feb 2009 02:34:27 -0500, "Joe Partlan" <anon@anon> wrote:
>
>>How many accounts has DeLorean stripped you of, Mark?
>
> who care I can make hunders more
>>
>>I know that you've lost quite a few of late.
>>
>>You can't trust that darned DeLorean, Mark. He is always there, lurking
>>and
>>watching you. He has become your unwelcome shadow.
>
> that is because he/you are stalkers nothing more
>
>>
>>Just when you think that you have thwarted one of his Bots, he designs yet
>>another and shows you to be an ignorant fool. DeLorean is light years
>>ahead
>>of you, Mark. But so are many others, too.
>
> so he enges in cyber crime makes him a bad ham and you a bda ham for
> helping encouring him
>>
>>When will it finally dawn on you, Mark, that you are simply not wanted in
>>these groups?
>
> mattrers not
>>
>>Does someone have to hit you over the head with a two by four to get your
>>attention?
>
> sure thing when you ging to try it
>
> I'll ell you when the 4th of never
>>
>>
DeLorean is a hero!

he he is unsing
he he is unsing
he he is unsing

he he is unsing
wherea aas deleoan
wherea aas deleoan
wherea aas deleoan

1100. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-15 23:10:16 UTC
From: mopezakween@yahoo.com
Message-ID: <94d0f890-32f3-4c94-8a44-5a23e205a1c3@f11g2000vbf.googlegroups.com>
Source record: 17524
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Feb 13, 5:54 pm, k...@hotmail.com wrote:
> On Fri, 13 Feb 2009 10:09:00 -0800 (PST), mopezakw...@yahoo.com wrote:
> >Then tell the cops, buttface. AFTER you contract deep bowel cancer,
> >hopefully.
>
> plase get some basic manners

die slowly, buttface...may your sphicter rot to the point that
dilaudid drips wont help the pain

1101. Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 05:59:13 UTC
From: Bill Bowden <wrongaddress@att.net>
Message-ID: <47815aa5-80dc-48e2-8a75-1ca52ae8371a@e25g2000vbe.googlegroups.com>
Source record: 17525

Anybody have a good antenna design for the new UHF digital TV
stations?

I get reasonable results from my old VHF/UHF antenna (55% signal
strength) , but it's big and ugly, and I want to replace it with a
smaller, more efficient UHF design (maybe a Yagi) I can construct at
home.

Anybody know the dimensions of such an antenna, probabaly in the
frequency range of 400-800 Mhz ?

-Bill

1102. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 07:11:57 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <323ip4tlnvepqigfga8j02sprl1je5jpau@4ax.com>
Source record: 17526

On Sun, 15 Feb 2009 21:59:13 -0800 (PST), Bill Bowden
<wrongaddress@att.net> wrote:

>Anybody have a good antenna design for the new UHF digital TV
>stations?
>
>I get reasonable results from my old VHF/UHF antenna (55% signal
>strength) , but it's big and ugly, and I want to replace it with a
>smaller, more efficient UHF design (maybe a Yagi) I can construct at
>home.

Rule of thumb: The bigger and uglier the antenna, the better it works.

>Anybody know the dimensions of such an antenna,

Various commercial digital TV antennas:
<http://www.hdtvprimer.com/ANTENNAS/comparing.html>
with Eznec NEC2 files at:
<http://www.hdtvprimer.com/SIMS/>

>probabaly in the
>frequency range of 400-800 Mhz ?

There are going to be some DTV stations in the VHF range. You might
want to check the new channels for your area:
<http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-07-138A2.xls>
List of frequencies:
<http://en.wikipedia.org/wiki/North_American_broadcast_television_frequencies>
Note that the upper end of the UHF TV band will be channel 51 at
698Mhz.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1103. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 08:32:22 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <tw9ml.7054$cl2.4706@newsfe09.iad>
Source record: 17527

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:323ip4tlnvepqigfga8j02sprl1je5jpau@4ax.com...
> On Sun, 15 Feb 2009 21:59:13 -0800 (PST), Bill Bowden
> <wrongaddress@att.net> wrote:
>
> >Anybody have a good antenna design for the new UHF digital TV
> >stations?
> >
> >I get reasonable results from my old VHF/UHF antenna (55% signal
> >strength) , but it's big and ugly, and I want to replace it with a
> >smaller, more efficient UHF design (maybe a Yagi) I can construct at
> >home.
>
> Rule of thumb: The bigger and uglier the antenna, the better it works.
>
> >Anybody know the dimensions of such an antenna,
>
> Various commercial digital TV antennas:
> <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> with Eznec NEC2 files at:
> <http://www.hdtvprimer.com/SIMS/>
>
> >probabaly in the
> >frequency range of 400-800 Mhz ?
>
> There are going to be some DTV stations in the VHF range. You might
> want to check the new channels for your area:
> <http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-07-138A2.xls>
> List of frequencies:
>
<http://en.wikipedia.org/wiki/North_American_broadcast_television_frequencie
s>
> Note that the upper end of the UHF TV band will be channel 51 at
> 698Mhz.

Many good all-channel antennas exist but the absolute best-performing
antennas are limited to covering one band, sometimes just a portion of one
band. (This idea started a lot of do-it-yourself antenna projects.)

If you determine that you have some stations on VHF and some on UHF,
consider having more than one antenna. In a home where I lived in the
pre-cable days, I had four different antennas.

Of note: The bigger the antenna, the more likely it will be highly
directional. If you expect to receive weak stations from more than one

direction, you'll probably need either a rotator or more than one antenna.
It's probably better to connect multiple antennas through an A/B switch,
rather than combining them.

1104. Mean spiritness

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 10:29:49 UTC
From: kd8ctl <anon@anon>
Message-ID: <2j84k1.18u.19.1@news.alt.net>
Source record: 17528
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

You Hams seem to be very mean sprited toward my husband, Mark.

Most of you are extremely cruel.

Mark has done nothing wrong, not now, not ever.

Mark has been, and continues to be victimized by all of you. He is a wonderful husband, I may add.
He is not the best of providers, but he does the best he can on a limited income. I pay the utilities and he chips in a few dollars when he can.

Whether or not we live together is not your concern. Our sex life is also none of your business.
I have told Mark to keep me out of this and he paid the penalty for telling you that I am bisexual.

He slept in the back yard, in one of his junk cars for two weeks. He made up to me and gave me flowers and promised to never again compromise my personal information.

I love him even though I made him crawl on his knees like a whipped puppy.

Yes, I am domineering. I carry the whip and Mark knows how well I dole out discipline.

Let you learn from my warning, DeLorean, Roger, Lloyd and others. You do NOT want to see me, Gav, showing up on your doorstep with my whip in hand. I will be your worst nightmare come true.

By the way...did you read my book report on Amazon? It is worth reading.

And that photo of me on the KD8CTL blog is way outdated. I haven't looked like that since I was 24 years old. I dyed my hair and wear trifocal glasses now.
I used to be skinny in those days.

Lady Gav
Lady Avagaye bas

Ysaac

1105. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 13:13:15 UTC
From: dave <dave@dave.dave>
Message-ID: <IYCdnS5T9cbx-wTUnZ2dnUVZ_q_inZ2d@earthlink.com>
Source record: 17529

Bill Bowden wrote:
> Anybody have a good antenna design for the new UHF digital TV
> stations?
>
> I get reasonable results from my old VHF/UHF antenna (55% signal
> strength) , but it's big and ugly, and I want to replace it with a
> smaller, more efficient UHF design (maybe a Yagi) I can construct at
> home.
>
> Anybody know the dimensions of such an antenna, probabaly in the
> frequency range of 400-800 Mhz ?
>
> -Bill

The coat hanger antenna is all the rage. Works better than a
store-bought Yagi.

http://uhfhdtvantenna.blogspot.com/

http://www.youtube.com/watch?v=EWQhlmJTMzw

1106. Re: kb9rqz crapathon conitues

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 14:37:24 UTC
From: kb9rqz <kb9rqz@punce.net>
Message-ID: <49997a25$0$3337$6e1ede2f@read.cnntp.org>
Source record: 17530
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.antenna

stop teh crap
http://kb9rqz.bravejournal.com/
http://kb9rqz.blogspot.com/

1107. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 15:53:17 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gnc25d$bs2s$1@tr22n12.aset.psu.edu>
Source record: 17531

JB wrote:
>> The real world and modeling are a lot different with vehicles than they
>> are with land mounted antennas. Your ground on your truck is very complex.
>>
>> side question: Did you bond the bejabbers out of the truck? You
>> really should have hood, doors, tailgate, exhaust system in several
>> places, frame in several places, radiator, engine block, and any other
>> place of interest you can think of.
>>
>> Rule of thumb is that you need at least one more bond than the maximum
>> amount you'd dare to place on the vehicle.
>>
>> The vehicle bonding and grounding is more important than the aerial part
>> IMO.
>>
>> - 73 de Mike N3LI -
>
> The frame is the only substantial ground and certainly most effective for 40
> meters. Use of the corners of the vehicle might actually get you a
> counterpoise on 20. What you really need is a trailing wire, dragging a
> cast iron stove.

HAR! Good delivery JB, you had me until the last sentence.

- 73 de Mike N3LI -

1108. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 15:56:08 UTC
From: Ralph E Lindberg <n7bsn@callsign.net>
Message-ID: <n7bsn-9E6C12.07560816022009@individual.net>
Source record: 17532

In article <323ip4tlnvepqigfga8j02sprl1je5jpau@4ax.com>,
Jeff Liebermann <jeffl@cruzio.com> wrote:

> On Sun, 15 Feb 2009 21:59:13 -0800 (PST), Bill Bowden
> <wrongaddress@att.net> wrote:
>
> >Anybody have a good antenna design for the new UHF digital TV
> >stations?
> >
> >I get reasonable results from my old VHF/UHF antenna (55% signal
> >strength) , but it's big and ugly, and I want to replace it with a
> >smaller, more efficient UHF design (maybe a Yagi) I can construct at
> >home.
>
> Rule of thumb: The bigger and uglier the antenna, the better it works.
>
> >Anybody know the dimensions of such an antenna,
>
> Various commercial digital TV antennas:
> <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> with Eznec NEC2 files at:
> <http://www.hdtvprimer.com/SIMS/>
>
> >probabaly in the
> >frequency range of 400-800 Mhz ?
>
> There are going to be some DTV stations in the VHF range. You might
> want to check the new channels for your area:
> <http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-07-138A2.xls>
> List of frequencies:
> <http://en.wikipedia.org/wiki/North_American_broadcast_television_frequencies>
> Note that the upper end of the UHF TV band will be channel 51 at
> 698Mhz.

EXACTLY, after conversion, some VHF stations will return as Digital, a
few low-band and many high-band

--

Personal e-mail is the n7bsn but at amsat.org
This posting address is a spam-trap and seldom read
RV and Camping FAQ can be found at
http://www.ralphandellen.us/rv

1109. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 16:21:25 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gnc3q5$8c50$1@tr22n12.aset.psu.edu>
Source record: 17533

Roy Lewallen wrote:
> JB wrote:
>>
>> The frame is the only substantial ground and certainly most effective
>> for 40
>> meters. Use of the corners of the vehicle might actually get you a
>> counterpoise on 20. What you really need is a trailing wire, dragging a
>> cast iron stove.
>
> At HF, a vehicle isn't "ground" or a "counterpoise", but the bottom half
> of an asymmetric dipole. It radiates at least as much as the "antenna"
> due to currents flowing downward along the outside. Calling a vehicle
> "ground" or "counterpoise" doesn't impart magical properties -- it's a
> conductor carrying currents whose fields don't cancel. In other words,
> it's an integral, radiating portion of the antenna. You can't leave this
> significant part of the antenna out of a model and expect the model to
> give correct results.

I'm assuming that there is a capacitor formed by the car body being some
few inches away from the physical ground also?

> And modeling a vehicle can be challenging because of the proximity of
> conductors, particularly the whip and vehicle. You have to follow the
> rules for closely spaced parallel conductors, and watch the average
> gain. You might need considerably more segments than normal where
> conductors are very close.

Given my limited experience, it's gotta be very difficult to model. My
setup was worst case, as far a sensitivity to bandwidth goes, a
bugcatcher. Best of a bad lot, I guess, but that makes the tuning very
sharp and sensitive. I'm assuming that the antennas that have fixed
elements "work" and tune by being pretty inefficient.

Which makes me suspect that we won't find any Hi-Q HF antennas that
aren't manually tuned in some fashion.

- 73 de Mike N3LI -

1110. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 17:40:48 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <179jp4ljghcds5pnds22s54gemj0nkbid5@4ax.com>
Source record: 17534

On Tue, 10 Feb 2009 07:57:28 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

>
>"Harry H" <harryharms@hotmail.com> wrote in message
>news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>> >
>>> The Lindenblad has an overhead null that you might find anoying for some
>>> high elevation passes of LEOs.
>>> Are you open to trying to build a DCA (which is an antenna that I
>>> developed)? I make the claim that there is no other hemispheric
>>> coverage antenna design that performs better than a DCA. But, I sure am
>>> open to being corrected.
>>> The Feb 2008 QST contains an article on the DCA antenna design concept.
>>> It is my claim that a DCA is extreemely forgiving of construction errors
>>> and uses 4 wire dipoles and 50 ohm coax with 5 RFI type ferrites as
>>> "baluns'.
>>>
>>> Jerry KD6JDJ
>> Given the fact I don't subscribe to QST, domicile Australia, would you
>> have a copy of the article?
>>
>> HH
>
>
> Hi HH
>
> It would be my pleasure to disclose any/all the information I have
>relating to the DCA antenna design concept. It is simple. It is two pairs
>of crossed dipoles. Each pair is spaced 1/4 wave apart and fed in phase.
>One pair is physically mounted 90 degrees from the other pair. All four
>dipoles are tilted 30 degtrees from vertical. One pair is fed 90 degrees
>later than the other pair.
> The concept is so simple and straightfoeward that it is probable that the
>concept has been developed before I thought of it. But, I have been unable
>to find anything published related to this simple "Double Cross Antenna"
> I told my *Internet buddy*, Patrik Tast, in Finland about the concept and
>he found it to be exactly what he needed for reception of NOAA weather
>satellite signals. Patrik publishes alot of what I send him related to the
>antenna. Patrik shows a section of his web page to describe the DCA to
>anyone interested. You can find the QST article in the section Patrik
>identifies as ANTENNAS on the first page of his site
>http://www.poes-weather.com/index.php.
>

> If you have any questions about the DCA concept you are free to E-mail me,
>anytime. Or, if you have any facts or data to show where I am wrong about
>how well this antenna performs, or know of something that performs better,
>please set me straight.
>
> Jerry KD6JDJ
>

I would be interested in seeing what NEC would make of one of these.

1111. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:00:50 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <IRhml.269855$NN4.179705@en-nntp-08.dc1.easynews.com>
Source record: 17535

Bill Bowden wrote:
> Anybody have a good antenna design for the new UHF digital TV
> stations?
>
> I get reasonable results from my old VHF/UHF antenna (55% signal
> strength) , but it's big and ugly, and I want to replace it with a
> smaller, more efficient UHF design (maybe a Yagi) I can construct at
> home.
>
> Anybody know the dimensions of such an antenna, probabaly in the
> frequency range of 400-800 Mhz ?
>
> -Bill

You could just cut off the long VHF elements and use them, cut to UHF
size, to extend and increase the number of director elements.

MTV

1112. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:03:14 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <hfajp4ddfbd88mjc5c3r62pe2937muemgo@4ax.com>
Source record: 17536

```
On Tue, 10 Feb 2009 18:12:26 -0000, "christofire"
<christofire@btinternet.com> wrote:

>
>"Jerry" <jerrymartes@verizon.net> wrote in message
>news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>>
>> "christofire" <christofire@btinternet.com> wrote in message
>> news:2LadnRjKfbllHAzUnZ2dnUVZ8qydnZ2d@bt.com...
>>> "Jerry" <jerrymartes@verizon.net> wrote in message
>>> news:Irakl.2355$eK2.206@nwrddc01.gnilink.net...
>>>>
>>>> "Harry H" <harryharms@hotmail.com> wrote in message
>>>> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>>>>> >
>>>>>> The Lindenblad has an overhead null that you might find anoying for
>>>>>> some high elevation passes of LEOs.
>>>>>> Are you open to trying to build a DCA (which is an antenna that I
>>>>>> developed)? I make the claim that there is no other hemispheric
>>>>>> coverage antenna design that performs better than a DCA. But, I sure
>>>>>> am open to being corrected.
>>>>>> The Feb 2008 QST contains an article on the DCA antenna design
>>>>>> concept.
>>>>>> It is my claim that a DCA is extreemely forgiving of construction
>>>>>> errors and uses 4 wire dipoles and 50 ohm coax with 5 RFI type
>>>>>> ferrites as "baluns'.
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>>>>>> Jerry KD6JDJ
>>>>> Given the fact I don't subscribe to QST, domicile Australia, would you
>>>>> have a copy of the article?
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>>>>> HH
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>>>> Hi HH
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>>>> pairs of crossed dipoles. Each pair is spaced 1/4 wave apart and fed
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>>>> All four dipoles are tilted 30 degtrees from vertical. One pair is fed
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>>>> the concept has been developed before I thought of it. But, I have
```

>>>> been unable to find anything published related to this simple "Double
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>>>> I told my *Internet buddy*, Patrik Tast, in Finland about the concept
>>>> and he found it to be exactly what he needed for reception of NOAA
>>>> weather satellite signals. Patrik publishes alot of what I send him
>>>> related to the antenna. Patrik shows a section of his web page to
>>>> describe the DCA to anyone interested. You can find the QST article in
>>>> the section Patrik identifies as ANTENNAS on the first page of his site
>>>> http://www.poes-weather.com/index.php.
>>>>
>>>> If you have any questions about the DCA concept you are free to E-mail
>>>> me, anytime. Or, if you have any facts or data to show where I am
>>>> wrong about how well this antenna performs, or know of something that
>>>> performs better, please set me straight.
>>>>
>>>> Jerry KD6JDJ
>>>
>>>
>>> ... but surely this is the same as a Lindenblad array? The tilt of the
>>> dipoles was always a parameter in the Lindenblad, so I wonder how your
>>> DCA differs from what N. E. Lindenblad described in the April 1941
>>> edition of 'Communications'.
>>>
>>> Chris
>>
>>
>> Hi Chris
>>
>> Several, well educated, antenna experts insist that the DCA is actually a
>> Lindenblad. If you thought the DCA is a Lindenblad, you are not alone.
>> The DCA is not a Lindenblad. The array of four dipoles in a Lindenblad
>> are fed to produce an overhead null. The four dipoles in a DCA are fed
>> to produce no overhead null. The DCA is a hemispheric coverage CP
>> antenna. The Lindenblad is not.
>> Let me know if you have reason to consider the DCA to be the same as a
>> Lindenblad. I knew nothing about Lindenblad until after recognizing the
>> DCA concept.
>>
>> Jerry m KD6JDJ
>>
>> Jerry
>
>
>Perhaps it's a rather fine distinction to say an antenna that has the same
>physical form as the Lindenblad array is something different because the
>elements are driven differently. The original version that he patented
>didn't have rod elements at all (see, for example,
>www.coe.montana.edu/ee/rwolff/EE548/EE548-S06/UWB/History_UWB_antennas.pdf)
>but it was the configuration of four slanted dipoles around a central pole
>that appears to have borne his name since 1941. Henry Jasik's 'Antenna

>Engineering Handbook' (now by John L. Volakis, Richard C. Johnson and Henry
>Jasik, Chapter 29, Page 34) refers to the configuration as a Lindenblad
>array, without being specific about the way the dipoles are driven.
>However, applying new names to antennas that exploit well known
>configurations seems fairly commonplace in the professional field,
>particularly in broadcasting.
>
>Of course you can name your antenna as you please, but there might be some
>value in mentioning that it is a development of the Lindenblad array - you'd
>certainly need to demonstrate awareness of, and distinction from, the prior
>art if you were to seek a patent.
>
>Chris
>
Interesting article, it describes the Lindenblat array as a quartet of
coaxial horns. Not the same as a quartet of dipoles at all.

1113. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:08:36 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <sk8jp49h5bl96rcc0225hu8tnlqn4p6dvg@4ax.com>
Source record: 17537

On Mon, 16 Feb 2009 00:32:22 -0800, "Sal M. Onella"
<salmonella@food.poisoning.org> wrote:

>Many good all-channel antennas exist but the absolute best-performing
>antennas are limited to covering one band, sometimes just a portion of one
>band. (This idea started a lot of do-it-yourself antenna projects.)

Sure. I can always trade bandwidth for gain. If you only watch one
DTV station, a single channel antenna is a good idea, especially if
it's distant and weak. If you don't like rotators, perhaps a
collection of single channel antennas pointed at each station might be
useful. I live in the mountains where reflections are a problem for
OTA reception. For a time, I was building and selling custom single
channel TV antennas, with built in preamps. They worked great, but
when Comcast started offering $13/month for local only TV, I gave up.

>If you determine that you have some stations on VHF and some on UHF,
>consider having more than one antenna. In a home where I lived in the
>pre-cable days, I had four different antennas.

Same here. Back in the 1970's, I lived in Israel for a while. In the
cities, everyone lived in big apartment complexes. Nobody watched the
official Israeli stations. The good programming was on the various
Arab stations, which were diverse, distant, and politically incorrect.
There was no cable TV (because the government didn't want to make it
easy to watch the Arab stations) so every apartment had its own
collection of antennas. Typical was a 3 meter pole with at least 4
yagis. Multiply that by at least 4 apartments per building and the
roof tops looked like an aluminum forest. Somewhat later, I lived in
Smog Angeles where everything is on Mt Wilson. Only one antenna
needed.

>Of note: The bigger the antenna, the more likely it will be highly
>directional.

<http://groups.google.com/group/rec.radio.amateur.antenna/msg/8535c986a167ac41>
"small - efficient - broadband: pick any two."
Roy Lewallen, W7EL

I've dealt with some rather monstrous log periodic directional
antennas. They cover the entire HF spectrum, but only have about 4dBi
of gain at any frequency. Directionality is about what you would
expect for a 4dBi antenna (about 80 degrees -3dB beamwidth). Just
because it's big, doesn't mean it has gain or a narrow beamwidth.

The same thing applies to TV antennas. If you compromise on the
bandwidth by reducing the number of channels it covers, then you can

get some more gain and narrower beamwidth (for a given size). That seems to be what's happening as the highest frequency goes from 900 to 700MHz. However, that's not going to make a huge difference is size of gain. More useful is ignoring the VHF channels and making the antenna UHF only. That really reduces the size of the antenna or increases the gain (for a given size antenna).

>If you expect to receive weak stations from more than one
>direction, you'll probably need either a rotator or more than one antenna.

True. I once was involved in building direction finders. I got greedy and decided to find a commercial application. What the world needed was a direction finder tied to a rotator and yagi. The yagi would automatically rotate to the direction of the strongest signal. I first tried it with a TV antenna and it worked. Unfortunately, my pre-microprocessor circuitry did not have any way to distinguish between multiple peaks in the signal strength as well as antenna side lobes. It would often pick the wrong lobe. Making a 360 degree scan would solve this problem, but that increased the complexity beyond acceptable limits.

So, I decided that perhaps it might be useful for commercial two-way radio. I installed one on a mountain top site on a UHF commercial frequency. Useful range was dramatically increased for the repeater. However, during a typical conversation, the antenna would rotate back and forth between each mobile and base. Commodity antenna rotators are not designed for near 100% duty cycle. It was also a dice toss as to whether a mobile could be heard, depending totally on the current antenna orientation. I could have improved things with a better and faster motor, but didn't. I know a bad idea when I design one.

I also built an omnidirectional TV antenna designed to be hung near the top of the local 50 meter redwood and fir trees. There was enough vertically polarized TV signal to make it usable. However, it also picked up reflections from every possible direction, resulting in multiple obnoxious ghosts. Bad idea, but fun to try.

>It's probably better to connect multiple antennas through an A/B switch,
>rather than combining them.

Yep. If the signals from multiple antenna could just as easily cancel as they could add. However, if you installed a band pass filter between the antenna and the combiner, the signals from one channel will only appear on one port, thus eliminating any chance of cancellation. I would filter and combine.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1114. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:21:56 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <kaednRNHMbBbMwTUnZ2dnUVZ_sWWnZ2d@posted.easystreetonline>
Source record: 17538

Michael Coslo wrote:
> Roy Lewallen wrote:
>>
>> At HF, a vehicle isn't "ground" or a "counterpoise", but the bottom
>> half of an asymmetric dipole. It radiates at least as much as the
>> "antenna" due to currents flowing downward along the outside. Calling
>> a vehicle "ground" or "counterpoise" doesn't impart magical properties
>> -- it's a conductor carrying currents whose fields don't cancel. In
>> other words, it's an integral, radiating portion of the antenna. You
>> can't leave this significant part of the antenna out of a model and
>> expect the model to give correct results.
>
> I'm assuming that there is a capacitor formed by the car body being some
> few inches away from the physical ground also?

Yes. This alters the current distribution on the vehicle, and can make
it an even more effective radiator than the "antenna".

>> And modeling a vehicle can be challenging because of the proximity of
>> conductors, particularly the whip and vehicle. You have to follow the
>> rules for closely spaced parallel conductors, and watch the average
>> gain. You might need considerably more segments than normal where
>> conductors are very close.
>
> Given my limited experience, it's gotta be very difficult to model. My
> setup was worst case, as far a sensitivity to bandwidth goes, a
> bugcatcher. Best of a bad lot, I guess, but that makes the tuning very
> sharp and sensitive. I'm assuming that the antennas that have fixed
> elements "work" and tune by being pretty inefficient.
>
> Which makes me suspect that we won't find any Hi-Q HF antennas that
> aren't manually tuned in some fashion.

Yes again. Manufacturers discovered long ago that hams like antennas
that are small, broadband and quiet. No problem -- small coils, small
wire, and bingo -- the ideal antenna. Rotten efficiency, but I've heard
countless hams over the years fussing and bragging about low SWR, and
nary a one who said a word about efficiency. Fortunately most hams don't
realize how many QSOs you can have with a watt or two of radiated power,
otherwise they'd be more concerned that that's all they're getting with
their 100 watt rig.

Roy Lewallen, W7EL

1115. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:24:07 UTC
From: gsm@mendelson.com
Message-ID: <slrngpjbhf.oov.gsm@cable.mendelson.com>
Source record: 17539

Jeff Liebermann wrote:

> Same here. Back in the 1970's, I lived in Israel for a while. In the
> cities, everyone lived in big apartment complexes. Nobody watched the
> official Israeli stations. The good programming was on the various
> Arab stations, which were diverse, distant, and politically incorrect.
> There was no cable TV (because the government didn't want to make it
> easy to watch the Arab stations) so every apartment had its own
> collection of antennas. Typical was a 3 meter pole with at least 4
> yagis. Multiply that by at least 4 apartments per building and the
> roof tops looked like an aluminum forest.

Those days are gone, we have cable TV, DBS TV and streaming video on the Internet. In the cities the antennas remain, no one wants to pay the money to remove them. Eventually it will be necessary to repair the roofs under them and take them down.

We are also supposed to have digital terrestrial TV in a few months, but instead of each station having various programs, there will be multiple channels on the same frequency.

Geoff.
--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

1116. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:32:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <njiml.4617$PE4.3368@nlpi061.nbdc.sbc.com>
Source record: 17540

Jeff Liebermann wrote:
> If you don't like rotators, perhaps a
> collection of single channel antennas pointed at each station might be
> useful.

Are the GPS coordinates for the transmitting antenna
available anywhere? I called the local TV station
and they don't know the coordinates for their
transmitting antenna.
--
73, Cecil http://www.w5dxp.com

1117. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:49:07 UTC
From: gsm@mendelson.com
Message-ID: <slrngpjd14.pah.gsm@cable.mendelson.com>
Source record: 17541

Cecil Moore wrote:

> Are the GPS coordinates for the transmitting antenna
> available anywhere? I called the local TV station
> and they don't know the coordinates for their
> transmitting antenna.

I'd be surprised if they gave them to you if they had them. Publishing the
exact location may be a security risk.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

1118. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 18:49:47 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <fziml.869$hm.711@nwrddc02.gnilink.net>
Source record: 17542

```
"JosephKK" <quiettechblue@yahoo.com> wrote in message
news:hfajp4ddfbd88mjc5c3r62pe2937muemgo@4ax.com...
> On Tue, 10 Feb 2009 18:12:26 -0000, "christofire"
> <christofire@btinternet.com> wrote:
>
>>
>>"Jerry" <jerrymartes@verizon.net> wrote in message
>>news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>>>
>>> "christofire" <christofire@btinternet.com> wrote in message
>>> news:2LadnRjKfbllHAzUnZ2dnUVZ8qydnZ2d@bt.com...
>>>> "Jerry" <jerrymartes@verizon.net> wrote in message
>>>> news:Irakl.2355$eK2.206@nwrddc01.gnilink.net...
>>>>>
>>>>> "Harry H" <harryharms@hotmail.com> wrote in message
>>>>> news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>>>>>> >
>>>>>>> The Lindenblad has an overhead null that you might find anoying for
>>>>>>> some high elevation passes of LEOs.
>>>>>>> Are you open to trying to build a DCA (which is an antenna that I
>>>>>>> developed)? I make the claim that there is no other hemispheric
>>>>>>> coverage antenna design that performs better than a DCA. But, I
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>>>>>>> It is my claim that a DCA is extreemely forgiving of construction
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>>>>>>> Jerry KD6JDJ
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>>>>>> have a copy of the article?
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>>>>> Hi HH
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>>>>> It would be my pleasure to disclose any/all the information I have
>>>>> relating to the DCA antenna design concept. It is simple. It is two
>>>>> pairs of crossed dipoles. Each pair is spaced 1/4 wave apart and fed
>>>>> in phase. One pair is physically mounted 90 degrees from the other
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>>>>> pair.
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>>>>> 90 degrees later than the other pair.
>>>>> The concept is so simple and straightfoeward that it is probable that
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>>>>> Cross Antenna"
>>>>> I told my *Internet buddy*, Patrik Tast, in Finland about the concept
>>>>> and he found it to be exactly what he needed for reception of NOAA
>>>>> weather satellite signals. Patrik publishes alot of what I send him
>>>>> related to the antenna. Patrik shows a section of his web page to
>>>>> describe the DCA to anyone interested. You can find the QST article
>>>>> in
>>>>> the section Patrik identifies as ANTENNAS on the first page of his
>>>>> site
>>>>> http://www.poes-weather.com/index.php.
>>>>>
>>>>> If you have any questions about the DCA concept you are free to
>>>>> E-mail
>>>>> me, anytime. Or, if you have any facts or data to show where I am
>>>>> wrong about how well this antenna performs, or know of something that
>>>>> performs better, please set me straight.
>>>>>
>>>>> Jerry KD6JDJ
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>>>> ... but surely this is the same as a Lindenblad array? The tilt of the
>>>> dipoles was always a parameter in the Lindenblad, so I wonder how your
>>>> DCA differs from what N. E. Lindenblad described in the April 1941
>>>> edition of 'Communications'.
>>>>
>>>> Chris
>>>
>>>
>>> Hi Chris
>>>
>>> Several, well educated, antenna experts insist that the DCA is actually
>>> a
>>> Lindenblad. If you thought the DCA is a Lindenblad, you are not alone.
>>> The DCA is not a Lindenblad. The array of four dipoles in a
>>> Lindenblad
>>> are fed to produce an overhead null. The four dipoles in a DCA are fed
>>> to produce no overhead null. The DCA is a hemispheric coverage CP
>>> antenna. The Lindenblad is not.
>>> Let me know if you have reason to consider the DCA to be the same as a
>>> Lindenblad. I knew nothing about Lindenblad until after recognizing
>>> the
>>> DCA concept.
>>>

>>> Jerry m KD6JDJ
>>>
>>> Jerry
>>
>>
>>Perhaps it's a rather fine distinction to say an antenna that has the same
>>physical form as the Lindenblad array is something different because the
>>elements are driven differently. The original version that he patented
>>didn't have rod elements at all (see, for example,
>>www.coe.montana.edu/ee/rwolff/EE548/EE548-S06/UWB/History_UWB_antennas.pdf
>>)
>>but it was the configuration of four slanted dipoles around a central pole
>>that appears to have borne his name since 1941. Henry Jasik's 'Antenna
>>Engineering Handbook' (now by John L. Volakis, Richard C. Johnson and
>>Henry
>>Jasik, Chapter 29, Page 34) refers to the configuration as a Lindenblad
>>array, without being specific about the way the dipoles are driven.
>>However, applying new names to antennas that exploit well known
>>configurations seems fairly commonplace in the professional field,
>>particularly in broadcasting.
>>
>>Of course you can name your antenna as you please, but there might be some
>>value in mentioning that it is a development of the Lindenblad array -
>>you'd
>>certainly need to demonstrate awareness of, and distinction from, the
>>prior
>>art if you were to seek a patent.
>>
>>Chris
>>
> Interesting article, it describes the Lindenblat array as a quartet of
> coaxial horns. Not the same as a quartet of dipoles at all.

Hi Joseph

I sent an E-mail to the address shown as yours in this group. I use
EZNEC and have lots of files on various sizes and shapes of the DCA and
other OmniAzimuth and Hemispheric coverage antennas. I'd be happy to share
them with you if you E-mail me directly.
I figure it will benefit me to see the facts and data that shows where I
am mistaken about how the DCA better than the other hemispheric coverage
antennas for LEO use. It is likely that I have overlooked something.
maybe the DCA can be improved.

Jerry KD6JDJ

Jerry KD6JDJ

1119. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:01:24 UTC
From: dave <dave@dave.dave>
Message-ID: <4999b807$0$31186$bd467cd0@news.dslextreme.com>
Source record: 17544

Cecil Moore wrote:
> Jeff Liebermann wrote:
>> If you don't like rotators, perhaps a
>> collection of single channel antennas pointed at each station might be
>> useful.
>
> Are the GPS coordinates for the transmitting antenna
> available anywhere? I called the local TV station
> and they don't know the coordinates for their
> transmitting antenna.

I'm not sure what "GPS coordinates" means, but this site will draw you a map and give you regular coordinates:

http://www.fccinfo.com

1120. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:03:28 UTC
From: dave <dave@dave.dave>
Message-ID: <4999B880.8010609@dave.dave>
Source record: 17545

Geoffrey S. Mendelson wrote:
> Cecil Moore wrote:
>
>> Are the GPS coordinates for the transmitting antenna
>> available anywhere? I called the local TV station
>> and they don't know the coordinates for their
>> transmitting antenna.
>
> I'd be surprised if they gave them to you if they had them. Publishing the
> exact location may be a security risk.
>
> Geoff.
>

It's totally a matter of public record. You'd have to be really
paranoid crazy to try to hide something that sends out a Megawatt homing
beacon 24/7.

1121. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:03:51 UTC
From: dave <dave@dave.dave>
Message-ID: <4999b899$0$31186$bd467cd0@news.dslextreme.com>
Source record: 17546

Geoffrey S. Mendelson wrote:
> Cecil Moore wrote:
>
>> Are the GPS coordinates for the transmitting antenna
>> available anywhere? I called the local TV station
>> and they don't know the coordinates for their
>> transmitting antenna.
>
> I'd be surprised if they gave them to you if they had them. Publishing the
> exact location may be a security risk.
>
> Geoff.
>

It's totally a matter of public record. You'd have to be really
paranoid crazy to try to hide something that sends out a Megawatt homing
beacon 24/7.

1122. get kelp ag

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:06:18 UTC
From: k3vr@hotmail.com
Message-ID: <l6ejp45eu7ien5ftbg4e794p4ub29163ja@4ax.com>
Source record: 17543
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Mon, 16 Feb 2009 05:29:49 -0500, "kd8ctl" <anon@anon> wrote:

why lie in my wifes name

>You Hams seem to be very mean sprited toward my husband, Mark.

true
>
>Most of you are extremely cruel.

you try to be
>
>Mark has done nothing wrong, not now, not ever.

true
>
>Mark has been, and continues to be victimized by all of you. He is a
>wonderful husband, I may add.

now you just go off the rials

1123. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:24:52 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <ce721efe-36ba-4770-9408-92a208a59305@b16g2000yqb.googlegroups.com>
Source record: 17547
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 16, 9:37 am, "kb9rqz" <kb9...@punce.net> wrote:
> stop
get a life spaming fake

1124. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:27:40 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <b67b002e-b412-438e-9172-a9266016bda3@h16g2000yqj.googlegroups.com>
Source record: 17548
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Feb 15, 6:10 pm, mopezakw...@yahoo.com wrote:
> On Feb 13, 5:54 pm, k...@hotmail.com wrote:
>
> > On Fri, 13 Feb 2009 10:09:00 -0800 (PST), mopezakw...@yahoo.com wrote:
> > >Then tell the cops, buttface. AFTER you contract deep bowel cancer,
> > >hopefully.
>
> > plase get some basic manners
>
> die slowly, buttface...may your sphicter rot to the point that
> dilaudid drips wont help the pain

whew get a maners and treatment

1125. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:29:36 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <89326bca-b80f-46b4-88ca-e4b5d95ea215@w35g2000yqm.googlegroups.com>
Source record: 17549
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Feb 15, 3:48 pm, "Toddie" <anon@anon> wrote:
>
get a life spaming fake

1126. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 19:30:02 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <3a99cc00-697b-41cc-9f6b-3f775bc5e8d9@h20g2000yqn.googlegroups.com>
Source record: 17550
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

On Feb 15, 3:44 pm, "Toddie" <anon@anon> wrote:
>
get a life spaming fake

1127. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 20:35:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <o6kml.17939$c45.16835@nlpi065.nbdc.sbc.com>
Source record: 17451

Geoffrey S. Mendelson wrote:
> I'd be surprised if they gave them to you if they had them. Publishing the
> exact location may be a security risk.

Then how can I aim my antenna while on top of a tower
with no one to assist me?
--
73, Cecil http://www.w5dxp.com

1128. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 20:45:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Mckml.2092$Lr6.1091@flpi143.ffdc.sbc.com>
Source record: 17452

dave wrote:
> I'm not sure what "GPS coordinates" means, but this site will draw you a
> map and give you regular coordinates:
>
> http://www.fccinfo.com

Does one have to download Google Earth?
--
73, Cecil http://www.w5dxp.com

1129. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 20:54:33 UTC
From: t3rror <t3rror@mythang.com>
Message-ID: <dokml.231551$XA2.173309@fe02.news.easynews.com>
Source record: 17453

On 2009-02-16, dave <dave@dave.dave> wrote:
> Bill Bowden wrote:
>> Anybody have a good antenna design for the new UHF digital TV
>> stations?
>>
>> I get reasonable results from my old VHF/UHF antenna (55% signal
>> strength) , but it's big and ugly, and I want to replace it with a
>> smaller, more efficient UHF design (maybe a Yagi) I can construct at
>> home.
>>
>> Anybody know the dimensions of such an antenna, probabaly in the
>> frequency range of 400-800 Mhz ?
>>
>> -Bill
>
> The coat hanger antenna is all the rage. Works better than a
> store-bought Yagi.
>
> http://uhfhdtvantenna.blogspot.com/
>
> http://www.youtube.com/watch?v=EWQhlmJTMzw

Here is a decent video and article on making one of the coat hanger
antennas. I am planning on making one tonight in fact to see how well
it will do in my location.

http://blog.makezine.com/archive/2009/01/maker_workshop_dtv_antenna_steadyca.html

t3rror

1130. Re: Lost accounts? Thank DeLorean.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 21:06:16 UTC
From: kb9rqz <kb9rqz@punce.net>
Message-ID: <4999d548$0$3336$6e1ede2f@read.cnntp.org>
Source record: 17454
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

<k3vr@hotmail.com> wrote in message
news:c4lgp4p3n00vjr1ermf4jjcqdoqt6inqbg@4ax.com...
> On Sun, 15 Feb 2009 02:34:27 -0500, "Joe Partlan" <anon@anon> wrote:
>
>>How many accounts has DeLorean stripped you of, Mark?
>
> who care I can make hunders more
>>
>>I know that you've lost quite a few of late.
>>
>>You can't trust that darned DeLorean, Mark. He is always there, lurking
>>and
>>watching you. He has become your unwelcome shadow.
>
> that is because he/you are stalkers nothing more
>
>>
>>Just when you think that you have thwarted one of his Bots, he designs yet
>>another and shows you to be an ignorant fool. DeLorean is light years
>>ahead
>>of you, Mark. But so are many others, too.
>
> so he enges in cyber crime makes him a bad ham and you a bda ham for
> helping encouring him
>>
>>When will it finally dawn on you, Mark, that you are simply not wanted in
>>these groups?
>
> mattrers not
>>
>>Does someone have to hit you over the head with a two by four to get your
>>attention?
>
> sure thing when you ging to try it
>
> I'll ell you when the 4th of never
>>
>>
>>
>>
>>
>>
>>
>>

>>
>>
>>
dont hojnacki teh thread

1131. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 21:09:02 UTC
From: gsm@mendelson.com
Message-ID: <slrngpjlb6.s22.gsm@cable.mendelson.com>
Source record: 17455

Cecil Moore wrote:
> Geoffrey S. Mendelson wrote:
>> I'd be surprised if they gave them to you if they had them. Publishing the
>> exact location may be a security risk.
>
> Then how can I aim my antenna while on top of a tower
> with no one to assist me?

However a location such as" 5 miles east of town on the Interstate"
is good enough to aim the antenna, but may be obscure enough to prevent
vandalism, theft, etc.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

1132. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 21:23:35 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <k6kzOZjXldmJFwYk@g3ohx.demon.co.uk>
Source record: 17456

In message <slrngpjlb6.s22.gsm@cable.mendelson.com>, Geoffrey S.
Mendelson <gsm@mendelson.com> writes
>Cecil Moore wrote:
>> Geoffrey S. Mendelson wrote:
>>> I'd be surprised if they gave them to you if they had them. Publishing the
>>> exact location may be a security risk.
>>
>> Then how can I aim my antenna while on top of a tower
>> with no one to assist me?
>
>However a location such as" 5 miles east of town on the Interstate"
>is good enough to aim the antenna, but may be obscure enough to prevent
>vandalism, theft, etc.
>
It's pretty hard to keep secret the location of (say) a 1000 foot TV
transmitter mast!
--
Ian

1133. Hex Beam in QST

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 21:30:21 UTC
From: john Wiener <jawod@fuse.net>
Message-ID: <8f1c6$4999daf4$d8c4d49f$14935@FUSE.NET>
Source record: 17457

Anyone care to comment on the relative merits of the hex beam project in QST vs. the commercial hex beam offered by Traffie Technology?

I don't understand the means of feed for the multiband elements as shown in the QST article.

I also don't understand the $1100 plus price tag for a similar set up by Traffie.

The light weight and portability appeal to me. I've not done a homebrew beam but a kit at a decent price point would be welcome.

John
AB8O

1134. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 21:32:45 UTC
From: dave <dave@dave.dave>
Message-ID: <4999db80$0$31192$bd467cd0@news.dslextreme.com>
Source record: 17458

Cecil Moore wrote:
> dave wrote:
>> I'm not sure what "GPS coordinates" means, but this site will draw you
>> a map and give you regular coordinates:
>>
>> http://www.fccinfo.com
>
> Does one have to download Google Earth?

Negative. That is one of several options but you don't have to use it
if you don't want to.

1135. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 22:01:15 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gncnnd$a41s$1@tr22n12.aset.psu.edu>
Source record: 17459

Roy Lewallen wrote:

> Yes again. Manufacturers discovered long ago that hams like antennas
> that are small, broadband and quiet. No problem -- small coils, small
> wire, and bingo -- the ideal antenna. Rotten efficiency, but I've heard
> countless hams over the years fussing and bragging about low SWR, and
> nary a one who said a word about efficiency. Fortunately most hams don't
> realize how many QSOs you can have with a watt or two of radiated power,
> otherwise they'd be more concerned that that's all they're getting with
> their 100 watt rig.

I haven't been able to compare my setup with one of the small systems, but I have to think that it was worth th eeffort. It's anecdotal of course, but signal reports have been pretty good.

I really must post a picture somewhere some time. It's a true monstrosity on a little Suzuki Vitara. My biggest regret is that a lot of people just *have* to come over to talk to me while I'm stopped and operating. Law enforcement is also interested - every one who has stopped to talk to me has been friendly but intrigued. A guy from the Fish and Game commission is going after his license now. The regret is that it can take away from operating time. 8^)

- 73 de Mike N3LI -

1136. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 22:27:24 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <68ojp4h4oqp4d4neh1lrjknlfhj19cu3fd@4ax.com>
Source record: 17460

On Mon, 16 Feb 2009 18:24:07 +0000 (UTC), gsm@mendelson.com (Geoffrey S. Mendelson) wrote:

>Jeff Liebermann wrote:
>
>> Same here. Back in the 1970's, I lived in Israel for a while. In the
>> cities, everyone lived in big apartment complexes. Nobody watched the
>> official Israeli stations. The good programming was on the various
>> Arab stations, which were diverse, distant, and politically incorrect.
>> There was no cable TV (because the government didn't want to make it
>> easy to watch the Arab stations) so every apartment had its own
>> collection of antennas. Typical was a 3 meter pole with at least 4
>> yagis. Multiply that by at least 4 apartments per building and the
>> roof tops looked like an aluminum forest.

>Those days are gone, we have cable TV, DBS TV and streaming video on the
>Internet. In the cities the antennas remain, no one wants to pay the money
>to remove them. Eventually it will be necessary to repair the roofs under them
>and take them down.

Yes, I know. The real problem with the antenna clutter is that there was some shading of the ubiquitous solar water heaters also on the same rooftops. While trying to repair one of the antennas, I stepped on the glass collector and cracked it. Oops.

Incidentally, I recall that most of the roofs were poured concrete which could probably withstand a mortar attack. I doubt if they will require much repair.

While in Israel, I had the bright idea of starting a company to provide cable TV. I went to the Ministry of the Post (now called Ministry of Communications), asked about the regulatory details, and was immediately detained as some manner of spy or subversive. Apparently, CATV was rather unpopular with the government at the time. I had to be rescued by my relatives. Sometime in the 1980's, Israel established the Council for CATV and Satellite Broadcasting, who's primary purpose was to obstruct deployment. That changed after one of the changes of government, which suspected that there would be less rioting in the streets, if people stayed home and watched TV.
<http://www.moc.gov.il>

At the time, I had been in the US 2way radio biz, so I decided that Israel might benefit from a commercial radio company. I went back to the Ministry of the Post, inquired about licensing, and was again detained as a spy or something. I was again rescued by the relatives. At the time, during essentially a war time economy, there was no

commercial radio service. That also has changed, but at the time, the
only radio communications was government, military, and ham radio.

>We are also supposed to have digital terrestrial TV in a few months, but instead
>of each station having various programs, there will be multiple channels
>on the same frequency.

We have the same thing here. At this time (before the demise of
analog in June), TV stations are broadcasting one 6 MHz channel of
analog. They were also granted a 2nd 6Mhz channel for digital, which
carries 1 to 4 digital channels. Usually it's a clone of the analog
channel, a Spanish language version, continuous news, and something
else. For a while, one station had one channel with a DTV camera
scanning the scenery around their transmitter building. It was one of
the few things worth watching, but alas, it went away.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1137. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 22:35:05 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <23qjp41qq406utbj3n90k4e1a2j5bej6bb@4ax.com>
Source record: 17461

On Mon, 16 Feb 2009 12:32:51 -0600, Cecil Moore <nospam@w5dxp.com>
wrote:

>Are the GPS coordinates for the transmitting antenna
>available anywhere? I called the local TV station
>and they don't know the coordinates for their
>transmitting antenna.

Sure. It's on the FCC page for the station.
Start here:
<http://www.fcc.gov/mb/video/tvq.html>
Inscribe the call sign in the call sign box.

For example, this is the results for KNTV:
<http://www.fcc.gov/fcc-bin/tvq?list=0&facid=35280>

Incidentally, I've tried to obtain transmitter locations, power line
routes, water line routes, location of telco central offices, and
other utility information from the operators at various times. After
2001, the standard answer is that it would compromise their security
if such information was disclosed. Sigh.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1138. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-16 23:55:39 UTC
From: dave <dave@dave.dave>
Message-ID: <4999fcff$0$31171$bd467cd0@news.dslextreme.com>
Source record: 17462

Jeff Liebermann wrote:
> On Mon, 16 Feb 2009 12:32:51 -0600, Cecil Moore <nospam@w5dxp.com>
> wrote:
>
>> Are the GPS coordinates for the transmitting antenna
>> available anywhere? I called the local TV station
>> and they don't know the coordinates for their
>> transmitting antenna.
>
> Sure. It's on the FCC page for the station.
> Start here:
> <http://www.fcc.gov/mb/video/tvq.html>
> Inscribe the call sign in the call sign box.
>
> For example, this is the results for KNTV:
> <http://www.fcc.gov/fcc-bin/tvq?list=0&facid=35280>
>

The Cavell Mertz web page does a much more elegant job than the FCC's:

http://www.fccinfo.com/CMDProEngine.php?sCurrentService=TV&tabSearchType=Appl&sAppIDNumber=1087036

The info is identical.

1139. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 00:14:45 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <Xjnml.9150$2h5.7933@newsfe11.iad>
Source record: 17463

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:njiml.4617$PE4.3368@nlpi061.nbdc.sbc.com...
> Are the GPS coordinates for the transmitting antenna
> available anywhere? I called the local TV station
> and they don't know the coordinates for their
> transmitting antenna.

They used to be able to be found in the FCC database. I recall when a
digital station in Kingsport, TN, first went on the air several years ago,
I looked up the data on location. The FCC even had the antenna pattern on
file.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

1140. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 00:39:54 UTC
From: dave <dave@dave.dave>
Message-ID: <499a075d$0$31190$bd467cd0@news.dslextreme.com>
Source record: 17464

Dr. Barry L. Ornitz wrote:
> "Cecil Moore" <nospam@w5dxp.com> wrote in message
> news:njiml.4617$PE4.3368@nlpi061.nbdc.sbc.com...
>> Are the GPS coordinates for the transmitting antenna
>> available anywhere? I called the local TV station
>> and they don't know the coordinates for their
>> transmitting antenna.
>
>
> They used to be able to be found in the FCC database. I recall when a
> digital station in Kingsport, TN, first went on the air several years
> ago, I looked up the data on location. The FCC even had the antenna
> pattern on file.
>

www.fccinfo.com will give you an aerial photo of the transmitter site.

1141. get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 00:55:59 UTC
From: k3vr@hotmail.com
Message-ID: <eo2kp4h3gcjc02dpqhg5iooh83ivm25vic@4ax.com>
Source record: 17465
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy

On Mon, 16 Feb 2009 16:06:16 -0500, "kb9rqz" <kb9rqz@punce.net> wrote:

>
>
get a life

1142. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 01:48:53 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <rk5kp4hspcspbfdqj1ea490itmirntjlr4@4ax.com>
Source record: 17466

On Mon, 16 Feb 2009 15:55:39 -0800, dave <dave@dave.dave> wrote:

>Jeff Liebermann wrote:
>> On Mon, 16 Feb 2009 12:32:51 -0600, Cecil Moore <nospam@w5dxp.com>
>> wrote:
>>
>>> Are the GPS coordinates for the transmitting antenna
>>> available anywhere? I called the local TV station
>>> and they don't know the coordinates for their
>>> transmitting antenna.
>>
>> Sure. It's on the FCC page for the station.
>> Start here:
>> <http://www.fcc.gov/mb/video/tvq.html>
>> Inscribe the call sign in the call sign box.
>>
>> For example, this is the results for KNTV:
>> <http://www.fcc.gov/fcc-bin/tvq?list=0&facid=35280>

>The Cavell Mertz web page does a much more elegant job than the FCC's:
>http://www.fccinfo.com/CMDProEngine.php?sCurrentService=TV&tabSearchType=Appl&sAppIDNumbe
r=1087036
>The info is identical.

Agreed. I just noticed that they have a link to a Google Earth map of
various services:
<http://www.fccinfo.com/fccinfo_google_earth.php>

Oh swell... Google Earth crashed while trying to view everything at
once. Oops.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1143. Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 03:33:09 UTC
From: bulegoge@columbus.rr.com
Message-ID: <85b9a2a9-652d-4871-a97b-c8e5b7edd1fa@m15g2000vbp.googlegroups.com>
Source record: 17467

Hi,

I have created a Smith Chart Tutorial located here:

http://www.fourier-series.com/rf-concepts/smithchart.html

It is comprised of flash programs with embedded audio. It allows you to learn the smith chart through the interactive nature of the flash program.

I have completed three flash programs on this subject, and intend to write two more. The tutorial explains the smith chart, allows for capacitive/inductive matching and introduces how a transmision line affects the reflection coefficient.

Good Luck with this

Brent

1144. Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 04:22:20 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>
Source record: 17468
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

Back in December I posted a question about ways to receive LF/VLF radio signals. Based on the suggestions made by a number of people here I decided to use my existing Heathkit Mohican receiver and add this upconverter kit from Jackson Harbor:

http://jacksonharbor.home.att.net/lfconv.htm

The kit arrived and was half assembled before I turned on the Mohican, its first power-up in some years; the horrible squeal that erupted from the speaker put a bit of a damper on things. It now appears that replacing the two output transistors (Germanium, no less!) with NTE102As from Mouser will fix that, so I'm thinking about an antenna that might be a little more snesitive to LF signals than the Mohican's built-in whip.

Along those lines, I have a couple of (what I hope are) simple questions that I'm hoping someone can help me get started with.

First, the need for impedance matching between an antenna and a receiver. My understanding is that a resonant halfwave dipole will have an impedance around 73 Ohms; unfortunately, unless I can obtain research funding from the just-passed Congressional Economic Stimulus bill I'm going to have trouble paying for 2.5km of copper wire, some towers, a crateload or two of porcelain insulators,and the land to build it on. (Hey, I promise to dump it back into the economy ASAP. Really! <grin!>)

So any non-loop antenna I can construct will necessarily be a "short wire" or "electrically small" antenna (two useful search terms). But how does one go about calculating the impedance of a coat hanger or an extension cord ("short piece of wire")?

I've done Google seaarches and read what seemed like the relevant sections of the 2004 ARRL Radio Handbook and their Antenna Book; unfortunately, most authors restrict their discussion to quarter-wave or longer antennae. Any starting points, hints, or references on impedance calculations for less-than-1/10-wavelength antennas will be appreciated.

My other question has to do with how to interpret signal strength. The first "standard reference" transmitter I'll be attempting to receive will be WWVB out of Fort Collins, Colorado (60kHz/5000m). Per the NIST documentation at:

NIST Special Publication 250-67: NIST Time and Frequency Radio Stations: WWV, WWVH, and WWVB

http://ts.nist.gov/MeasurementServices/Calibrations/
Upload/SP250-67.pdf

figure 4.5 seems to say that I could reasonably expect to see a
signal of at least 100uV/m. Does this mean that I should expect to
see 100uV from any one-meter hunk of wire strung out horizontally in
the optimum direction? Or is there something more subtle going on I
need to be aware of?

Frank McKenney
--
One of the ways to give the impression of an aesthetic performance
to those lacking the organ of taste is indeed to put into a work
of art the political, religious, or other extraneous satisfactions
popular with one or another audience. Particularly, of course, if
strongly held. -- Robert Conquest, "The Dragons of Expectation"
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1145. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 05:15:47 UTC
From: Dave Oldridge <doldridg@leavethisoutshaw.ca>
Message-ID: <Xns9BB4D8314A571doldridgsprintca@69.16.185.247>
Source record: 17469

mat_62@netcommander.com wrote in news:2477b02a-bc76-4a0d-a04d-7e2438e2e6ea@h5g2000yqh.googlegroups.com:

>I have a Rohn 30 foot telescoping mast that I'd like to use as the
>vertical element of a 40 meter ground plane. My idea is to add 3 feet
>of pipe to the top of it to make it the required 33 ft. long.
>I want to elevate the bottom of it about 8 feet of the ground and run
>a couple of quarter wave wire radials out from it. This way they can
>be walked under.
> My questions are these...
>The ground slopes upward in one direction that I need to run a radial.
>The radial will have to have an upward sweep in order to maintain the
>clearance needed to walk under it. Will this be an issue?
>
>The mast will be attached to my house to help support it. I can
>insulate it from the mounting bracket with no problem. What I'm
>wondering is with the fact of the mast being right up against the
>house and not in the clear, how much will the performance of the
>antenna be affected?
>
>I have come up with this idea of a groundplane because I don't want to
>deal with burying a whole bunch of radials in the ground. Think it
>will work?
>Tnx for any advice and suggestions and 73,

I modelled this the other night over a 15-degree slope

Basically, the pattern will have only about a 10db null. The pattern will be good at low angles downslope and a bit raised upslope. The antenna will even be half decent for NVIS at medium distance downslope.

In short, go for it!

--
Dave Oldridge+
ICQ 454777283
VA7CZ

1146. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 06:15:33 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <9Csml.8061$FI5.87@newsfe07.iad>
Source record: 17470

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:njiml.4617$PE4.3368@nlpi061.nbdc.sbc.com...

< snip >

> Are the GPS coordinates for the transmitting antenna
> available anywhere? I called the local TV station
> and they don't know the coordinates for their
> transmitting antenna.
> --
> 73, Cecil http://www.w5dxp.com

This thread got a little tangled. If, as I think, you're asking for
coordinates for a US station, try,

http://www.fcc.gov/mb/video/tvq.html

1. Enter the call letters for a known station. KLTV might be a good one.
2. Press <Enter> or scroll down and click <Submit Data>.
3. On the following page, click the station call letters. If a station has
more than one listing, click any of them, as they all lead to the same web
page.
4. On the next page, scroll down, observing the different documents issued
by the FCC for the station. They may have a "TV" license for analog, also
have a "DT" license and/or a DT Construction Permit. KLTV has seven irons
in the fire, those busy bees.
5 Each one of the entries for a different document provides specifics for
the installation (or proposal) document. You will see ERP, transmitter
location, antenna height above ground, above average terrain and above sea
level. There are links to area maps, including a coverage map.

(For an agency that wants its licensees to toe the mark, this FCC database
is not free of errors. If the given locations are, in fact, correct, your
desired coordinates are provided to the arc-second, about 100 feet.) Here's
a quick sample:

Licensee: KLTV/KTRE LICENSE SUBSIDIARY, LLC
Service Designation: DS Special Temporary Authority (digital)

Channel: 10 192 - 198 MHz Application
File No.: BSTA-20060217AAS Facility ID number: 68540
CDBS Application ID No.: 1115172

32° 21' 6.50 " N Latitude
95° 15' 59.20" W Longitude (NAD 27)

This website accepts data query in a variety of formats. Interesting to enter a LAT/LON and a distance (in km). The website returns all stations within that distance. (Some may be low-power translators aimed away from you, thus useless.)

1147. NIKE AIR JORDAN FORCE FUSION SHOES AJF 5 V JORDANs 5 FUSION NIKE

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 06:19:29 UTC
From: 8nsfjj@sina.com
Message-ID: <75729dc2-3eea-4ad0-aa04-95c0ccb8f0f8@o40g2000prn.googlegroups.com>
Source record: 17471
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

shoes on
AIR Jordan 1 (paypal payment)(www.king-trade.cn)
AIR Jordan 2
AIR Jordan 3
AIR Jordan 4
AIR Jordan 5 (paypal payment)(www.king-trade.cn)
AIR Jordan 6 Rings
AIR Jordan 6
AIR Jordan 7
AIR Jordan 8
AIR Jordan 9 (paypal payment)(www.king-trade.cn)
AIR Jordan 10
AIR Jordan 11
AIR Jordan 12
AIR Jordan 13 (paypal payment)(www.king-trade.cn)
AIR Jordan 14
AIR Jordan 15
AIR Jordan 16
AIR Jordan 17
AIR Jordan 18
AIR Jordan 19
AIR Jordan 20 (paypal payment)(www.king-trade.cn)
AIR Jordan 21
AIR Jordan 22
AIR Jordan 23 (paypal payment)(www.king-trade.cn)
AIR Jordan 3.5
AIR AIR Jordan 4.5
AIR Jordan 7.5
AIR Jordan 9.5
AIR Jordan 12.5 (paypal payment)(www.king-trade.cn)
AIR Jordan 15.5
AIR Jordan 19.5
AIR Jordan 21.5
AIR Jordan Large Size Jordan
AIR Jordan Size 14 Jordan
AIR Jordan Size 15 shoes
AIR Jordan DMP
Nike air force one, air force 1, air force one low cut, air force one high cut, air force one release date
Air force one, air foce one 25TH, af 1, af 1 25TH, Nike air force one new releases, limited version
Air Force One (paypal payment)(www.king-trade.cn)

Air Force one 25TH
AF 1
AF 1 25TH (paypal payment)(www.king-trade.cn)
Dunk sb nike sb dunk nike dunk sb dunk sb high dunk sb low dunk sb woman
Nike sb dunk Nike Dunk High SB nike dunk low premuim sb Nike SB Dunk High Shimizu
Nike SB Dunk Pro Nike SB Dunk Dunk SB
Nike Dunk shoes
Dunk shoes for woman (paypal payment)(www.king-trade.cn)
Dunk low cut
Dunk high cut

AIR Jordans Fusion 1 Jordan 2 Fusion AIR Jordan 3 Nike Jordan Fusion 4
Jordan 5 shoes Nike Air Jordan 6 VI Force 1 Jordan Fusion AJF 6 AJF6 AJ6F Jordan 6 Rings Jordan 6 fusion (paypal payment)(www.king-trade.cn)

AIR Jordan Fusions 13 NIKE Jordan Fusion 14 AIR Jordans 15Nike Jordan 16 Fusion Jordan 17 shoes Nike Air Jordans 18 XVIII Force 1 Jordan Fusion AJF18 AJF18 AJ18F Jordan 18 fusions
(paypal payment)(www.king-trade.cn)

AIR Jordan Fusions 7 NIKE Jordan Fusion 8 AIR Jordans 9 Nikes Jordan Fusion 10 Jordan 11 shoes Nike Air Jordan 12 XII Force 1 Jordan Fusion AJF 12 AJF12 AJ12F Jordans 12 fusions
(paypal payment)(www.king-trade.cn)

NIKE AIR JORDAN FORCE FUSION SHOES AJF 5 V JORDANs 5 FUSION NIKE JORDAN 5 FUSION SHOES AJF5 Nike Air Jordan XXIII 23 Force 1 Jordan Fusion AJF 23 AJF23 AJ23F
(paypal payment)(www.king-trade.cn)

Nike Jordans Fusion 23 AIR Jordan 22 Jordan Fusions 21 AIR Jordans Fusion 20 Jordan 19 shoes Air Jordan Force Fusion VIII (8), AJF 8 Nike (paypal payment)(www.king-trade.cn)
Air Jordan 17 XVII Force 1 Jordan Fusions AJF 17 AJF17 AJ17F Jordan
our website : www.king-trade.cn

1148. moto Mobile PSP Game & memory card

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 06:20:35 UTC
From: 8nsfjj@sina.com
Message-ID: <2997b85a-6ba7-43d0-915e-29986f39e036@e1g2000pra.googlegroups.com>
Source record: 17472
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

(paypal payment)(www.king-trade.cn)
Electronics Vertu Mobile
New iphone Mobile Nokia Mobile
moto Mobile PSP Game & memory card
Sony Mobile Samsung (paypal payment)(www.king-trade.cn)
Mobile Ipod nano Sony PS3
Laptops IBM laptops DELL laptops
Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

(paypal payment)(www.king-trade.cn)
Electronics Vertu Mobile
New iphone Mobile Nokia Mobile
moto Mobile PSP Game & memory card
Sony Mobile Samsung (paypal payment)(www.king-trade.cn)
Mobile Ipod nano Sony PS3
Laptops IBM laptops DELL laptops
Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

(paypal payment)(www.king-trade.cn)
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New iphone Mobile Nokia Mobile
moto Mobile PSP Game & memory card
Sony Mobile Samsung (paypal payment)(www.king-trade.cn)
Mobile Ipod nano Sony PS3
Laptops IBM laptops DELL laptops
Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

(paypal payment)(www.king-trade.cn)
Electronics Vertu Mobile
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moto Mobile PSP Game & memory card
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Mobile Ipod nano Sony PS3
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Mobile Ipod nano Sony PS3
Laptops IBM laptops DELL laptops
Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

(paypal payment)(www.king-trade.cn)
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Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

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Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

(paypal payment)(www.king-trade.cn)
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Laptops IBM laptops DELL laptops
Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

(paypal payment)(www.king-trade.cn)
Electronics Vertu Mobile
New iphone Mobile Nokia Mobile
moto Mobile PSP Game & memory card
Sony Mobile Samsung (paypal payment)(www.king-trade.cn)
Mobile Ipod nano Sony PS3
Laptops IBM laptops DELL laptops
Sony laptops ASUS laptops (paypal payment)(www.king-trade.cn)

1149. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 06:35:57 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <iVsml.10603$uG1.9968@newsfe16.iad>
Source record: 17473

"MTV" <volztexas355@comcast.net> wrote in message
news:IRhml.269855$NN4.179705@en-nntp-08.dc1.easynews.com...
> Bill Bowden wrote:
> > Anybody have a good antenna design for the new UHF digital TV
> > stations?
> >
> > I get reasonable results from my old VHF/UHF antenna (55% signal
> > strength) , but it's big and ugly, and I want to replace it with a
> > smaller, more efficient UHF design (maybe a Yagi) I can construct at
> > home.
> >
> > Anybody know the dimensions of such an antenna, probabaly in the
> > frequency range of 400-800 Mhz ?
> >
> > -Bill
>
> You could just cut off the long VHF elements and use them, cut to UHF
> size, to extend and increase the number of director elements.
>
> MTV

Yes. I have a seven foot TV parabola on my roof, but my next-best antenna is an absolute piece of junk, literally. My neighbor was throwing out an all-channel antenna that was blown down in a storm and badly damaged. I clipped the connections between the UHF & VHF sections and hacksawed off the mostly undamaged UHF section (12 directors, I think). With a section of pipe rudely jammed into the boom as a counterweight, I'm pulling in stations 125 miles away almost as well as with the parabola.

Turning other people's discards into functional devices is an art. (I'm the guy who worked Hawaii on 20m with 100 Watts into an extension ladder. ... and no, I wasn't feeding it with ladder line.)

"Sal"
(KD6VKW)

1150. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 07:07:37 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <2unkp4do1dh9uin6lk0fv1308hp3g114q9@4ax.com>
Source record: 17474

On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney
<frnak@far.from.the.madding.crowd.com> wrote:

>First, the need for impedance matching between an antenna and a
>receiver. My understanding is that a resonant halfwave dipole will
>have an impedance around 73 Ohms; unfortunately, unless I can obtain
>research funding from the just-passed Congressional Economic
>Stimulus bill I'm going to have trouble paying for 2.5km of copper
>wire, some towers, a crateload or two of porcelain insulators,and
>the land to build it on. (Hey, I promise to dump it back into the
>economy ASAP. Really! <grin!>)
>
>So any non-loop antenna I can construct will necessarily be a "short
>wire" or "electrically small" antenna (two useful search terms).
>But how does one go about calculating the impedance of a coat hanger
>or an extension cord ("short piece of wire")?

Hi Frank,

One doesn't try.

The simple solution is the conventional one - you use a tuner.

The tuner provides the matching (providing it has sufficient
inductance and capacitance - you will have to investigate designs) and
adjacent signal rejection (which could seriously de-sense your
received signals).

Your antenna doesn't need to be very big, but it might help to have it
very remote, if there are noise sources nearby (like motors, aquarium
heaters, bottle style TVs, ...); and the line sufficiently choked. A
good ground too, tying into the service ground through a separate wire
to reduce coupling of noise from shared grounds. This last may
introduce a ground loop if your Mohican is so vintage as to have had
relaxed design standards. A little research online reveals it is
battery operable. You may want to fully exercise that option.

73's
Richard Clark, KB7QHC

1151. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 07:39:37 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <_Qtml.5446$pX4.4066@newsfe08.iad>
Source record: 17475

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
news:9Csml.8061$FI5.87@newsfe07.iad...

< snip >

> coordinates for a US station, try,
>
> http://www.fcc.gov/mb/video/tvq.html
>

For many people, the Cavell Mertz site beats the pants off the FCC site I
posted.

It must use the FCC raw data, since I see it has a long-standing FCC error,
KFMB-DT on Channel 55. They moved to Channel 7 (interim) last summer.

"Sal"

1152. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 11:18:50 UTC
From: Phil Allison <philallison@tpg.com.au>
Message-ID: <6vvkooFlviahU1@mid.individual.net>
Source record: 17476
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

"Frnak McKenney"

> http://ts.nist.gov/MeasurementServices/Calibrations/Upload/SP250-67.pdf

** Just how big is this file - eh ??

Why did you limit replies to ONE newsgroup while posting to TWO ???

What sort to total FUCKING ASSHOLE are you ????

You fucking ASININE YANK cunt- head.

..... Phil

1153. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 12:54:46 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <lbOdnSlyKf4LLgfUnZ2dnUVZ_rHinZ2d@earthlink.com>
Source record: 17477
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

Hi, Phil. Thanks for responding.

On Tue, 17 Feb 2009 22:18:50 +1100, Phil Allison <philallison@tpg.com.au> wrote:
> "Frnak McKenney"
>> http://ts.nist.gov/MeasurementServices/Calibrations/Upload/SP250-67.pdf
>
> ** Just how big is this file - eh ??

Multiple megabytes: too large to paste the text into a newsgroup
article, and I didn't think that appending it as an attachment would
be appropriate.

If you're limited to a dial-up connection, I can see that the size
might be a problem. I could download a copy for you and forward it
via e-mail if you think that would be any easier.

...Interesting. When I access a copy this morning, Adobe Reader 7.0
fetches _something_, but when I try to "Save a Copy" I get an I/O
error pop-up, and Reader's Find command gets hung at about page 17.
This is the same file I had no problems running a Find all the way
through (several times) last night... wish I had saved a copy then
(ain't hindsight wonderful? <grin!>).

Would you like for me to forward a copy to you once I'm able to
get a complete one?

Frank McKenney
--
"Provide me with ships or proper sails for the celestial atmosphere
and there will be men there, too, who do not fear the appalling
distance" -- Johannes Kepler
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1154. Re: Mean spiritness

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 13:29:34 UTC
From: mopeyzakween@yahoo.com
Message-ID: <c6d21122-7071-4464-b813-38dafd6583f4@r22g2000vbp.googlegroups.com>
Source record: 17478
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Feb 16, 5:29 am, "kd8ctl" <anon@anon> wrote:
> You Hams seem to be very mean sprited toward my husband, Mark.
>
> Most of you are extremely cruel.
>
> Mark has done nothing wrong, not now, not ever.
>
> Mark has been, and continues to be victimized by all of you. He is a
> wonderful husband, I may add.
> He is not the best of providers, but he does the best he can on a limited
> income. I pay the utilities and he chips in a few dollars when he can.
>
> Whether or not we live together is not your concern. Our sex life is also
> none of your business.
> I have told Mark to keep me out of this and he paid the penalty for telling
> you that I am bisexual.
>
> He slept in the back yard, in one of his junk cars for two weeks. He made up
> to me and gave me flowers and promised to never again compromise my personal
> information.
>
> I love him even though I made him crawl on his knees like a whipped puppy.
>
> Yes, I am domineering. I carry the whip and Mark knows how well I dole out
> discipline.
>
> Let you learn from my warning, DeLorean, Roger, Lloyd and others. You do NOT
> want to see me, Gav, showing up on your doorstep with my whip in hand. I
> will be your worst nightmare come true.
>
> By the way...did you read my book report on Amazon? It is worth reading.
>
> And that photo of me on the KD8CTL blog is way outdated. I haven't looked
> like that since I was 24 years old. I dyed my hair and wear trifocal glasses
> now.
> I used to be skinny in those days.
>
> Lady Gav
> Lady Avagaye bas
>
> Ysaac

the entire thread here, every single post but this one, was fabricated
by moparholic at hotmail dot com

1155. Complete info on the faggy convicted stalker of women, Robert Trendel, KD8IMG

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 13:33:58 UTC
From: mopeyzakween@yahoo.com
Message-ID: <719807fd-e6cf-4417-8478-ef6883c1f498@s36g2000vbp.googlegroups.com>
Source record: 17479
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

Conviction 1

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO TIME: 1:16:32 PM
DATE: 2/13/2009

CASE: G -4801 -CI -200802161-000
TITLE: LEE VS TRENDEL
JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
FILING DATE: 2/20/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
MISC

MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

Party Counsel
Plaintiff 1:
LEE KATHLEEN

Defendant 1:
TRENDEL ROBERT

Alias(es)
TRENDEL ROBERT

DATE SEQ EVENT

2/20/2008 1 Title : OPN:CPO PETITION FILED
PARTY : P1 - LEE KATHLEEN

2/21/2008 1 Title : ORD:REQ'T EXT TO PLD GRANTED
EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
HEARING TO FEB. 29, 2008 AT 1 P.M.
PARTY : -

2/21/2008 3 Title : MIS:COURTROOM CASE NOTES
SENT EX PARTE ORDER ORDINARY MAIL TO RESPONDENT, ROBERT
TRENDEL.
PARTY : -

2/21/2008 4 Title : EVT:CPO SENT SHERIFF FOR SERVE
COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
ROBERT L TRENDEL
PARTY : D1 - TRENDEL ROBERT

2/21/2008 5 Title : EVT:HAND DELIV SERVE BY BAILIF
NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
PARTY : P1 - LEE KATHLEEN

2/21/2008 6 Title : SRV:COPIES MAILED
COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND
FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

2/21/2008 7 Title : EVT:EX PARTE CPO FILED/JOUR
EJOURNALIZED 2-27-08
PARTY : P1 - LEE KATHLEEN

2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
THAT THERE WAS NO RESPONSE TO NOTES LEFT
PARTY : D1 - TRENDEL ROBERT

2/29/2008 1 Title : ORD:ORDER
Court reporter Kim Kohls ordered. The matter was called
for a full hearing on February 29, 2008, on a request for
a Civil Protection Stalking Order filed on February 20,
2008. Petitioner KATHLEEN LEE was present. Respondent
ROBERT TRENDEL was present with his attorney DAVID F.
WILEY. At the request of Respondent, the full hearing is
continued until March 13, 2008 at 1:00 p.m. IT IS
THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing
scheduled for February 29, 2008, is ORDERED continued
until March 13, 2008 at 1:00 p.m.
IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking
Protection Order granted on February 21, 2008, shall
remain in full force and effect until March 13, 2008.

See Order.
PARTY : -

2/29/2008 2 Title : HRG:HEARING SET
FULL HEARING 3/13/08 1:00 P.M.
PARTY : -

2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
JOURNALIZED 03/05/2008
PERTAINING TO ORDER TO CONTINUE CSPO HEARING TO 3/13/08
PARTY : P1 - LEE KATHLEEN

3/3/2008 1 Title : SRV:COPIES MAILED
COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING
PROTECTION ORDER TO 3/13/2008 AT 1:00 P.M. IN
COURTROOM #2 MAILED ORDINARY TO PETITIONER AND RESPONDENT
AND TO DAVID WILEY ATTORNEY.

COPIES ALSO LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL FORCE
AND EFFECT THROUGH 3-12-2010.
PARTY : -

3/13/2008 2 Title : CLS:CPO CLOSED
PARTY : -

3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
CHRIS IN COURTROOM #2 PERSONALLY SERVED BOTH THE PETITIONER
AND RESPONDENT WITH COPIES OF CIVIL STALKING PROTECTION
ORDER FULL HEARING
PARTY : P1 - LEE KATHLEEN

3/14/2008 1 Title : SRV:COPIES MAILED
COPIES OF CIVIL STALKING PROTECTION ORDER AND FORM 10-A NCIC
LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND
TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
EJOURNALIZED 03/14/2008
PERTAINING TO ORDER OF PROTECTION FULL HEARING
PARTY : P1 - LEE KATHLEEN

4/14/2008 1 Title : PLD:DOCKETING STATEMENT
PARTY : P1 - LEE KATHLEEN

4/14/2008 2 Title : PLD:PRAECIPE FILED
PARTY : P1 - LEE KATHLEEN

4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
PARTY : P1 - LEE KATHLEEN

4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
TO KATHLEEN LEE
322 BURGER STREET
TOLEDO, OH 43605
PARTY : D1 - TRENDEL ROBERT

4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
L08-1111
PARTY : P1 - LEE KATHLEEN

5/5/2008 1 Title : PLD:PRAECIPE FILED
AMENDED PRAECIPE PURSUANT TO 6TH DIST.LOC.APP.R.3(B)
PARTY : P1 - LEE KATHLEEN

Conviction 2, this one is even better...it is his NEXT DOOR NEIGHBOR

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO TIME: 1:18:30 PM
DATE: 2/13/2009

CASE: G -4801 -CI -200802176-000
TITLE: SZYMANSKI VS TRENDEL
JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
FILING DATE: 2/21/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
MISC

MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

Party Counsel
Plaintiff 1:
SZYMANSKI DONNA S

Defendant 1:
TRENDEL ROBERT L

Alias(es)
TRENDEL ROBERT

DATE SEQ EVENT

2/21/2008 1 Title : OPN:CPO PETITION FILED
PARTY : P1 - SZYMANSKI DONNA S

2/21/2008 2 Title : JRE:EXISTING PENDING CASE
PARTY : -

2/21/2008 3 Title : EVT:CPO SENT SHERIFF FOR SERVE
COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
ROBERT L TRENDEL
PARTY : D1 - TRENDEL ROBERT L

2/21/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
PARTY : P1 - SZYMANSKI DONNA S

2/21/2008 5 Title : SRV:COPIES MAILED
COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND A FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - SZYMANSKI DONNA S

2/21/2008 7 Title : EX PARTE PROTECT ORD 2903.214
EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL HEARING ON 2-29-08 AT 1 P.M.
RESPONDENT SHALL NOT DISSEMINATE ANY INFORMATION ABOUT THE OVER C.B. RADIO. THE RESPONDENT SHALL NOT APPEAR AT THE POLICE DEPARTMENT FROM 2:30 P.M. TO 11:00 P.M WHILE THE PETITIONER IS AT WORK.
PARTY : -

2/21/2008 8 Title : MIS:COURTROOM CASE NOTES
SENT EX PARTE ORDER TO RESPONDENT BY ORDINARY MAIL.
PARTY : -

2/21/2008 9 Title : EVT:EX PARTE CPO FILED/JOUR
EJOURNALIZED 2-26-08
PARTY : P1 - SZYMANSKI DONNA S

2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES THAT THERE WAS NO RESPONSE TO NOTES LEFT.
PARTY : D1 - TRENDEL ROBERT L

2/29/2008 1 Title : ORD:ORDER
Court reporter Kim Kohls ordered. The matter was called for a full hearing on February 29, 2008, on a request for a Civil Protection Stalking Order filed on February 21, 2008. Petitioner DONNAL S SZYMANSKI was present. Respondent ROBERT L TRENDEL was present with his attorney DAVID F. WILEY. At request of Respondent, the full hearing is continued until March 13, 2008 at 1:00 p.m.IT IS THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing scheduled for February 29, 2008, is ORDERED continued until March 13, 2008, at 1:00 p.m. IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking Protection Order granted on February 20, 2008, shall remain in full force and effect until March 13, 2008.

See Order.
PARTY : -

2/29/2008 2 Title : HRG:HEARING SET
FULL HEARING 3/13/08 AT 1:00 P.M.
PARTY : -

2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
JOURNALIZED 03/05/2008
PERTAINING TO ORDER TO CONTINUING CSPO HEARING TO 3/13/08

PARTY : P1 - SZYMANSKI DONNA S

3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL
FORCE AND EFFECT THROUGH 3-12-2010.
PARTY : -

3/13/2008 2 Title : CLS:CPO CLOSED
PARTY : -

3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
BY CHRIS IN COURTROOM #2
PARTY : P1 - SZYMANSKI DONNA S

3/14/2008 1 Title : SRV:COPIES MAILED
COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - SZYMANSKI DONNA S

3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
EJOURNALIZED 03/14/2008
PERTAINING TO ORDER OF PROTECTION FULL HEARING
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 1 Title : PLD:PRAECIPE FILED
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 2 Title : PLD:DOCKETING STATEMENT
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
PARTY : D1 - TRENDEL ROBERT L

4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
TO CHRISTOPHER F. PARKER, ESQ
405 MADISON AVE, SUITE 2200
TOLEDO, OH 43604-1224
PARTY : D1 - TRENDEL ROBERT L

4/15/2008 3 Title : MIS:CLERKS OFFICE NOTES
PETITION FOR EX PARTE CIVIL STALKING PROTECTION ORDER
WAS NOT FILE STAMPED ON 2/21/2008. FILED STAMPED ON 4/15/08
PARTY : P1 - SZYMANSKI DONNA S

4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
L08-1110
PARTY : P1 - SZYMANSKI DONNA S

3/3/2009 1 Title : SRV:COPIES MAILED
COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING

PROTECTION ORDER TO MARCH 13, 2008 AT 1:00 P.M. IN
COURTROOM #1 MAILED ORDINARY TO BOTH THE PETITIONER AND
RESPONDENT. COPIES LEFT FOR TOLEDO POLICE AND LUCAS
COUNTY SHERIFF DEPT. COPY ALSO MAILED TO DAVID F WILEY
ATTORNEY.
PARTY : P1 - SZYMANSKI DONNA S

1156. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 13:51:25 UTC
From: Phil Allison <philallison@tpg.com.au>
Message-ID: <6vvtmtFlv986U1@mid.individual.net>
Source record: 17480
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

"Frnak McKenney"
> Hi, Phil. Thanks for responding.

** Go to hell - asshole

>>> http://ts.nist.gov/MeasurementServices/Calibrations/Upload/SP250-67.pdf
>>
>> ** Just how big is this file - eh ??
>
> Multiple megabytes:

** Then why not fucking WARN people ??

ASSHOLE !!

> If you're limited to a dial-up connection,

** Not the case and 100% IRRELEVANT !!

ASSHOLE !!

> Would you like for me to forward a copy to you once I'm able to
> get a complete one?

** Go shove it UP YOUR ARSE !!

Why did you limit replies to ONE newsgroup while posting to TWO ???

ASSHOLE !!!

.... Phil

1157. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 13:56:38 UTC
From: zekfrivo@zekfrivolous.com
Message-ID: <gnefmm$243$1@usenet01.srv.cis.pitt.edu>
Source record: 17481

In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>, Frnak McKenney
<frnak@far.from.the.madding.crowd.com> wrote:
>
>Back in December I posted a question about ways to receive LF/VLF
>radio signals. Based on the suggestions made by a number of people
>here I decided to use my existing Heathkit Mohican receiver and add
>this upconverter kit from Jackson Harbor:
>
> http://jacksonharbor.home.att.net/lfconv.htm
>
>The kit arrived and was half assembled before I turned on the
>Mohican, its first power-up in some years; the horrible squeal that
>erupted from the speaker put a bit of a damper on things. It now
>appears that replacing the two output transistors (Germanium, no
>less!) with NTE102As from Mouser will fix that, so I'm thinking
>about an antenna that might be a little more snesitive to LF signals
>than the Mohican's built-in whip.
>
>Along those lines, I have a couple of (what I hope are) simple
>questions that I'm hoping someone can help me get started with.
>
>First, the need for impedance matching between an antenna and a
>receiver. My understanding is that a resonant halfwave dipole will
>have an impedance around 73 Ohms; unfortunately, unless I can obtain
>research funding from the just-passed Congressional Economic
>Stimulus bill I'm going to have trouble paying for 2.5km of copper
>wire, some towers, a crateload or two of porcelain insulators,and
>the land to build it on. (Hey, I promise to dump it back into the
>economy ASAP. Really! <grin!>)
>
>So any non-loop antenna I can construct will necessarily be a "short
>wire" or "electrically small" antenna (two useful search terms).
>But how does one go about calculating the impedance of a coat hanger
>or an extension cord ("short piece of wire")?
>
>I've done Google seaarches and read what seemed like the relevant
>sections of the 2004 ARRL Radio Handbook and their Antenna Book;
>unfortunately, most authors restrict their discussion to quarter-
>wave or longer antennae. Any starting points, hints, or references
>on impedance calculations for less-than-1/10-wavelength antennas
>will be appreciated.
>
>My other question has to do with how to interpret signal strength.
>The first "standard reference" transmitter I'll be attempting to

>receive will be WWVB out of Fort Collins, Colorado (60kHz/5000m).
>Per the NIST documentation at:
>
> NIST Special Publication 250-67: NIST Time and Frequency Radio
> Stations: WWV, WWVH, and WWVB
> http://ts.nist.gov/MeasurementServices/Calibrations/
> Upload/SP250-67.pdf
>
>figure 4.5 seems to say that I could reasonably expect to see a
>signal of at least 100uV/m. Does this mean that I should expect to
>see 100uV from any one-meter hunk of wire strung out horizontally in
>the optimum direction? Or is there something more subtle going on I
>need to be aware of?
>
>
>Frank McKenney

http://www.frontiernet.net/~jadale/Loop.htm

1158. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 14:28:23 UTC
From: dave <dave@dave.dave>
Message-ID: <NPudndmizY4aVAfUnZ2dnUVZ_haWnZ2d@earthlink.com>
Source record: 17482

Sal M. Onella wrote:
> "Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
> news:9Csml.8061$FI5.87@newsfe07.iad...
>
> < snip >
>
>> coordinates for a US station, try,
>>
>> http://www.fcc.gov/mb/video/tvq.html
>>
>
>
> For many people, the Cavell Mertz site beats the pants off the FCC site I
> posted.
>
> It must use the FCC raw data, since I see it has a long-standing FCC error,
> KFMB-DT on Channel 55. They moved to Channel 7 (interim) last summer.
>
> "Sal"
>
>
fccinco.com is a third party front-end for the FCC Query database. When
you submit a search Cavell Mertz submits a query to fcc.gov. There is a
little report at the bottom of the page.

1159. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 14:34:56 UTC
From: Van Chocstraw <boobooililililil@roadrunner.com>
Message-ID: <gtSdnRwMBfmIVgfUnZ2dnUVZ_r-dnZ2d@giganews.com>
Source record: 17483
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced

Nobody will die from lack of TV. They just want you to think so.

--
<<//--------------------\\>>
Van Chocstraw
>>\\--------------------//<<

1160. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 14:48:05 UTC
From: a7yvm109gf5d1@netzero.com
Message-ID: <fd7c303d-ae37-454b-a879-3aec84a73f99@s24g2000vbp.googlegroups.com>
Source record: 17484
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

Hey, his name is Frnak, doesn't he have enough troubles already?

1161. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 14:58:06 UTC
From: Ron <apositiveplace@netscape.net>
Message-ID: <1gAml.11183$xK6.2260@newsfe12.iad>
Source record: 17485
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

k3vr wrote:
> On Feb 14, 7:36 pm, Ron <apositivepl...@netscape.net> wrote:
>> k...@hotmail.com wrote:
>>> On Fri, 13 Feb 2009 17:03:04 -0600, Ron <apositivepl...@netscape.net>
>>> wrote:
>>>> k...@hotmail.com wrote:
>>>>> On Wed, 11 Feb 2009 16:33:38 -0600, Ron <apositivepl...@netscape.net>
>>>>> wrote:
>>>>>> k...@hotmail.com wrote:
>>>>>>> On Tue, 10 Feb 2009 19:13:35 -0600, Ron <apositivepl...@netscape.net>
>>>>>>> wrote:
>>>>>>>> k...@hotmail.com wrote:
>>>>>>>>> On Tue, 10 Feb 2009 12:52:18 -0600, Ron <apositivepl...@netscape.net>
>>>> Once again, I'd try and explain it but I don't think I could keep the
>>>> words small enough for you.
>>> meaning youintent was to be insulting nothing more
>>> try being honest
>> Oh no, this time you got it 100% correct. But then again so did I.
>>
>>
>>
>>
>>
>>
>>
>>>>>> Your spelling is absolutely atrocious, your syntax is worse,
>>>>>> and this combines to make your posts nearly unreadable.
>>>>> then don't read it if you like
>>>> You replied to my post dude, not the other way around.
>>> you started the exachane
>>> and again if you don't like what reading my post ypost you don't have
>>> to
>>> I OTOH will contiue to reply to whatever posts I wish however I wish
>>>>>> Its not really
>>>>>> a difficult concept to grasp, and the program is quite intuitive. Its
>>>>>> built for those who cannot spell, in other words for someone just like
>>>>>> yourself (and I to be honest, but I have learned to use my spell-checkers).
>>>>> the question is why bother the only people that complain seem to be
>>>>> folks Id perfer to anoy rather than spend any extra effort trying to
>>>>> please
>>>> Ahh, so you are here for no other reason than to annoy others.
>>> lying again
>> Not really, just paraphrasing your response.

>>
>>
>>
>>> but it is tru I don't cae if you and/or others are anoyed
>>> if you understood enligh you understand that difference
>> If you wrote English it sure would make it easier to understand your
>> meaning.
>
> since it is bsivlous beyond your understand maybe you should stfu

Hmmm, I could, but then again just about anyone who reads here is going to have issues trying to understand what it is you are attempting to write. Only those who have not gotten beyond third grade would be able to glean an infinitesimal portion of your meaning.

Now, since you obviously have little or nothing to contribute to any of the news groups to which you post your spam, maybe I can appeal to your limited sense of humanity and get you to "stfu".

Ron

1162. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 16:28:43 UTC
From: "J.A. Legris" <jalegris@sympatico.ca>
Message-ID: <6aad4e2c-10fb-4ebb-b2d0-db86a05093c0@l38g2000vba.googlegroups.com>
Source record: 17486

On Feb 16, 11:22 pm, Frnak McKenney
<fr...@far.from.the.madding.crowd.com> wrote:
> Back in December I posted a question about ways to receive LF/VLF
> radio signals. Based on the suggestions made by a number of people
> here I decided to use my existing Heathkit Mohican receiver and add
> this upconverter kit from Jackson Harbor:
>
> http://jacksonharbor.home.att.net/lfconv.htm
>
> The kit arrived and was half assembled before I turned on the
> Mohican, its first power-up in some years; the horrible squeal that
> erupted from the speaker put a bit of a damper on things. It now
> appears that replacing the two output transistors (Germanium, no
> less!) with NTE102As from Mouser will fix that, so I'm thinking
> about an antenna that might be a little more snesitive to LF signals
> than the Mohican's built-in whip.
>
> Along those lines, I have a couple of (what I hope are) simple
> questions that I'm hoping someone can help me get started with.
>
> First, the need for impedance matching between an antenna and a
> receiver. My understanding is that a resonant halfwave dipole will
> have an impedance around 73 Ohms; unfortunately, unless I can obtain
> research funding from the just-passed Congressional Economic
> Stimulus bill I'm going to have trouble paying for 2.5km of copper
> wire, some towers, a crateload or two of porcelain insulators,and
> the land to build it on. (Hey, I promise to dump it back into the
> economy ASAP. Really! <grin!>)
>
> So any non-loop antenna I can construct will necessarily be a "short
> wire" or "electrically small" antenna (two useful search terms).
> But how does one go about calculating the impedance of a coat hanger
> or an extension cord ("short piece of wire")?
>
> I've done Google seaarches and read what seemed like the relevant
> sections of the 2004 ARRL Radio Handbook and their Antenna Book;
> unfortunately, most authors restrict their discussion to quarter-
> wave or longer antennae. Any starting points, hints, or references
> on impedance calculations for less-than-1/10-wavelength antennas
> will be appreciated.
>
> My other question has to do with how to interpret signal strength.
> The first "standard reference" transmitter I'll be attempting to
> receive will be WWVB out of Fort Collins, Colorado (60kHz/5000m).

> Per the NIST documentation at:
>
>   NIST Special Publication 250-67: NIST Time and Frequency Radio
>   Stations: WWV, WWVH, and WWVB
> http://ts.nist.gov/MeasurementServices/Calibrations/
>   Upload/SP250-67.pdf
>
> figure 4.5 seems to say that I could reasonably expect to see a
> signal of at least 100uV/m. Does this mean that I should expect to
> see 100uV from any one-meter hunk of wire strung out horizontally in
> the optimum direction? Or is there something more subtle going on I
> need to be aware of?
>
> Frank McKenney

A field strength measured in Volts/meter is just that, but the problem getting the energy out of the air and into a receiver.

A short linear antenna has a very low radiation resistance (<< 1 ohm) which is a poor match to a practical transmission line, whose characteristic impedance is typically 1000's of times larger. The radiation resistance of an antenna is the component of its complex impedance that is associated with the power captured. Poor impedance matching is equivalent to low energy efficiency, in this case very low.

One solution is to use a small circular loop antenna whose low radiation resistance can be increased by adding turns. Balanis (Antenna Theory Analysis & Design (1997), p.209) gives a formula for the radiation resistance of a loop smaller than 1/25 wavelength:

R = 20 * pi^2 * (C/L)^4 * N^2 ohms

where C is the circumference of the loop, L is the wavelength and N is the number of turns.

Better still is to use a ferrite loop antenna. You may be able to get one out of an old AM radio and adapt it to your receiver. The resulting formula is identical to the above, multiplied by the relative permeability of the core, u (SQUARED !), so you can use a very small-diameter loop and/or fewer turns, getting improved selectivity and sensitivity (i.e. high Q) in a tuned circuit:

R = 20 * pi^2 * (C/L)^4 * N^2 * u^2 ohms

--
Joe

1163. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 16:31:33 UTC
From: "J.A. Legris" <jalegris@sympatico.ca>
Message-ID: <c9958133-2eb9-4af0-b006-95ede41a628c@f3g2000vbf.googlegroups.com>
Source record: 17487

On Feb 16, 11:22 pm, Frnak McKenney
<fr...@far.from.the.madding.crowd.com> wrote:
> Back in December I posted a question about ways to receive LF/VLF
> radio signals. Based on the suggestions made by a number of people
> here I decided to use my existing Heathkit Mohican receiver and add
> this upconverter kit from Jackson Harbor:
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> http://jacksonharbor.home.att.net/lfconv.htm
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> appears that replacing the two output transistors (Germanium, no
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> wire, some towers, a crateload or two of porcelain insulators,and
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> economy ASAP. Really! <grin!>)
>
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>
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>
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> The first "standard reference" transmitter I'll be attempting to
> receive will be WWVB out of Fort Collins, Colorado (60kHz/5000m).

> Per the NIST documentation at:
>
>   NIST Special Publication 250-67: NIST Time and Frequency Radio
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>
> figure 4.5 seems to say that I could reasonably expect to see a
> signal of at least 100uV/m. Does this mean that I should expect to
> see 100uV from any one-meter hunk of wire strung out horizontally in
> the optimum direction? Or is there something more subtle going on I
> need to be aware of?
>
> Frank McKenney
> --
>   One of the ways to give the impression of an aesthetic performance
>   to those lacking the organ of taste is indeed to put into a work
>   of art the political, religious, or other extraneous satisfactions
>   popular with one or another audience. Particularly, of course, if
>   strongly held.   -- Robert Conquest, "The Dragons of Expectation"
> --
> Frank McKenney, McKenney Associates
> Richmond, Virginia / (804) 320-4887
> Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

A field strength measured in Volts/meter is just that, but the problem
getting the energy out of the air and into a receiver.

A short linear antenna has a very low radiation resistance (<< 1 ohm)
which is a poor match to a practical transmission line, whose
characteristic impedance is typically 1000's of times larger. The
radiation resistance of an antenna is the component of its complex
impedance that is associated with the power captured. Poor impedance
matching is equivalent to low energy efficiency, in this case very
low.

One solution is to use a small circular loop antenna whose low
radiation resistance can be increased by adding turns. Balanis
(Antenna Theory Analysis & Design (1997), p.209) gives a formula for
the radiation resistance of a loop smaller than 1/25 wavelength:

R = 20 * pi^2 * (C/L)^4 * N^2 ohms

where C is the circumference of the loop, L is the wavelength and N is
the number of turns.

Better still is to use a ferrite loop antenna. You may be able to get
one out of an old AM radio and adapt it to your receiver. The
resulting formula is identical to the above, multiplied by the
relative permeability of the core, u (SQUARED !), so you can use a
very small-diameter loop and/or fewer turns, getting improved
selectivity and sensitivity (i.e. high Q) in a tuned circuit:

```
R = 20 * pi^2 * (C/L)^4 * N^2 * u^2 ohms
```

--
Joe

1164. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 16:36:23 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <ftolp4luebuv950h7di0hu4uq83f39ra0b@4ax.com>
Source record: 17488

On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney
<frnak@far.from.the.madding.crowd.com> wrote:

>So any non-loop antenna I can construct will necessarily be a "short
>wire" or "electrically small" antenna (two useful search terms).
>But how does one go about calculating the impedance of a coat hanger
>or an extension cord ("short piece of wire")?

Antennas can be modeled by various NEC based programs. For example:
<http://home.ict.nl/~arivoors/>
<http://www.eznec.com>
<http://www.nittany-scientific.com>

Note that the common "atomic clock" gets its time from WWVB at 60KHz
(about 5000 meters) using a tiny loop antenna. Huge antennas are not
required for many application.
<http://www.mas-oy.com/data/MAS_docu_AR.htm>
<http://www.leapsecond.com/pages/sony-wwvb/>

Also, search Google for LOWFER.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1165. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 17:02:42 UTC
From: Tim Wescott <tim@seemywebsite.com>
Message-ID: <c_CdnfapSuovcAfUnZ2dnUVZ_hYLAAAA@web-ster.com>
Source record: 17489

On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney wrote:

> Back in December I posted a question about ways to receive LF/VLF radio
> signals. Based on the suggestions made by a number of people here I
> decided to use my existing Heathkit Mohican receiver and add this
> upconverter kit from Jackson Harbor:
>
> http://jacksonharbor.home.att.net/lfconv.htm
>
> The kit arrived and was half assembled before I turned on the Mohican,
> its first power-up in some years; the horrible squeal that erupted from
> the speaker put a bit of a damper on things. It now appears that
> replacing the two output transistors (Germanium, no less!) with
> NTE102As from Mouser will fix that, so I'm thinking about an antenna
> that might be a little more snesitive to LF signals than the Mohican's
> built-in whip.
>
> Along those lines, I have a couple of (what I hope are) simple questions
> that I'm hoping someone can help me get started with.
>
> First, the need for impedance matching between an antenna and a
> receiver. My understanding is that a resonant halfwave dipole will have
> an impedance around 73 Ohms; unfortunately, unless I can obtain research
> funding from the just-passed Congressional Economic Stimulus bill I'm
> going to have trouble paying for 2.5km of copper wire, some towers, a
> crateload or two of porcelain insulators,and the land to build it on.
> (Hey, I promise to dump it back into the economy ASAP. Really!
> <grin!>)
>
> So any non-loop antenna I can construct will necessarily be a "short
> wire" or "electrically small" antenna (two useful search terms). But how
> does one go about calculating the impedance of a coat hanger or an
> extension cord ("short piece of wire")?
>
> I've done Google seaarches and read what seemed like the relevant
> sections of the 2004 ARRL Radio Handbook and their Antenna Book;
> unfortunately, most authors restrict their discussion to quarter- wave
> or longer antennae. Any starting points, hints, or references on
> impedance calculations for less-than-1/10-wavelength antennas will be
> appreciated.
>
> My other question has to do with how to interpret signal strength. The
> first "standard reference" transmitter I'll be attempting to receive
> will be WWVB out of Fort Collins, Colorado (60kHz/5000m). Per the NIST

> documentation at:
>
> NIST Special Publication 250-67: NIST Time and Frequency Radio
> Stations: WWV, WWVH, and WWVB
> http://ts.nist.gov/MeasurementServices/Calibrations/
> Upload/SP250-67.pdf
>
> figure 4.5 seems to say that I could reasonably expect to see a signal
> of at least 100uV/m. Does this mean that I should expect to see 100uV
> from any one-meter hunk of wire strung out horizontally in the optimum
> direction? Or is there something more subtle going on I need to be aware
> of?
>
Why do you want a good impedance match?

Why don't you want to use a loop antenna?

At 5000m, atmospheric noise is very strong -- it would certainly overwhelm any thermal noise that you'd receive if you did make a 1/2 wave dipole (don't forget that your towers need to be at least 2500m tall to get close to the ideal). Getting an appropriate impedance match is mostly about maximizing your signal compared with your receiver's internal noise; the strong atmospheric noise makes this less necessary.

This atmospheric noise also makes really efficient receiving antennas rather unimportant. You want a good fraction of a wavelength for _transmitting_, but it really doesn't make much difference for _receiving_.

The two common receiving antennas that I know of at that sort of frequency are tuned loops and capacitive whips.

A loop can be fairly small -- my understanding (which I've never tested, YMMV) is that one square meter is plenty. Loops are nice because you can tune them, so they give you some additional selectivity on your receiver front end. You can impedance match the loop to your receiver, but most of the impedance your receiver sees will come from the wire in the loop, not the radiation resistance of the loop. Loops are also somewhat directive, which helps to reduce the total static received, and if done correctly (google "shielded loop") they can be arranged to reject sky waves (I _think_ by polarization, but I'm not sure).

A capacitive whip is just a 1m long wire whip (like a coat hanger or welding rod) feeding some high impedance amplifier like a JFET (or a toob, if you want to be picturesque). Put the active element right at the base of the wire for best signal. It's inherently wide band, and hard to keep it from being so, so if you have some local interference it'll kill your signal (my first try at these didn't work in my shop because of a nearby electric fence transformer, but it worked fine at the end-user's more-urban location).

--
http://www.wescottdesign.com

1166. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 17:52:29 UTC
From: "J.A. Legris" <jalegris@sympatico.ca>
Message-ID: <615359e8-e507-4a39-be0d-1ed60a3f8907@q35g2000vbi.googlegroups.com>
Source record: 17490

On Feb 16, 11:22 pm, Frnak McKenney
<fr...@far.from.the.madding.crowd.com> wrote:
> Back in December I posted a question about ways to receive LF/VLF
> radio signals. Based on the suggestions made by a number of people
> here I decided to use my existing Heathkit Mohican receiver and add
> this upconverter kit from Jackson Harbor:
>
> http://jacksonharbor.home.att.net/lfconv.htm
>
> The kit arrived and was half assembled before I turned on the
> Mohican, its first power-up in some years; the horrible squeal that
> erupted from the speaker put a bit of a damper on things. It now
> appears that replacing the two output transistors (Germanium, no
> less!) with NTE102As from Mouser will fix that, so I'm thinking
> about an antenna that might be a little more snesitive to LF signals
> than the Mohican's built-in whip.
>
> Along those lines, I have a couple of (what I hope are) simple
> questions that I'm hoping someone can help me get started with.
>
> First, the need for impedance matching between an antenna and a
> receiver. My understanding is that a resonant halfwave dipole will
> have an impedance around 73 Ohms; unfortunately, unless I can obtain
> research funding from the just-passed Congressional Economic
> Stimulus bill I'm going to have trouble paying for 2.5km of copper
> wire, some towers, a crateload or two of porcelain insulators,and
> the land to build it on. (Hey, I promise to dump it back into the
> economy ASAP. Really! <grin!>)
>
> So any non-loop antenna I can construct will necessarily be a "short
> wire" or "electrically small" antenna (two useful search terms).
> But how does one go about calculating the impedance of a coat hanger
> or an extension cord ("short piece of wire")?
>
> I've done Google seaarches and read what seemed like the relevant
> sections of the 2004 ARRL Radio Handbook and their Antenna Book;
> unfortunately, most authors restrict their discussion to quarter-
> wave or longer antennae. Any starting points, hints, or references
> on impedance calculations for less-than-1/10-wavelength antennas
> will be appreciated.
>
> My other question has to do with how to interpret signal strength.
> The first "standard reference" transmitter I'll be attempting to
> receive will be WWVB out of Fort Collins, Colorado (60kHz/5000m).

> Per the NIST documentation at:
>
>   NIST Special Publication 250-67: NIST Time and Frequency Radio
>   Stations: WWV, WWVH, and WWVB
> http://ts.nist.gov/MeasurementServices/Calibrations/
>   Upload/SP250-67.pdf
>
> figure 4.5 seems to say that I could reasonably expect to see a
> signal of at least 100uV/m. Does this mean that I should expect to
> see 100uV from any one-meter hunk of wire strung out horizontally in
> the optimum direction? Or is there something more subtle going on I
> need to be aware of?
>
> Frank McKenney

A field strength measured in Volts/meter is just that, but the problem getting the energy out of the air and into a receiver.

A short linear antenna has a very low radiation resistance (<< 1 ohm) which is a poor match to a practical transmission line, whose characteristic impedance is typically 1000's of times larger. The radiation resistance of an antenna is the component of its complex impedance that is associated with the power captured. Poor impedance matching is equivalent to low energy efficiency, in this case very low.

One solution is to use a small circular loop antenna whose low radiation resistance can be increased by adding turns. Balanis (Antenna Theory Analysis & Design (1997), p.209) gives a formula for the radiation resistance of a loop smaller than 1/25 wavelength:

R = 20 * pi^2 * (C/L)^4 * N^2 ohms

where C is the circumference of the loop, L is the wavelength and N is the number of turns.

Better still is to use a ferrite loop antenna. You may be able to get one out of an old AM radio and adapt it to your receiver. The resulting formula is identical to the above, multiplied by the relative permeability of the core, u (SQUARED !), so you can use a very small-diameter loop and/or fewer turns, getting improved selectivity and sensitivity (i.e. high Q) in a tuned circuit:

R = 20 * pi^2 * (C/L)^4 * N^2 * u^2 ohms

--
Joe

1167. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 18:10:47 UTC
From: JB <nospam@goofball.net>
Message-ID: <H4Dml.946$Bl.587@nwrddc01.gnilink.net>
Source record: 17491
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced

"Van Chocstraw" <boobooiliiliiliil@roadrunner.com> wrote in message
news:gtSdnRwMBfmIVgfUnZ2dnUVZ_r-dnZ2d@giganews.com...
> Nobody will die from lack of TV. They just want you to think so.
>
Cops want cellphones out of 800. Some will go to 700 (ch 52 and up) after
the digital transition is completed. Cops cite interference as the reason,
so if they have it all to themselves they can complain about themselves.
Not a good time to be a radio tech.

1168. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 18:56:33 UTC
From: k3vr@hotmail.com
Message-ID: <su1mp4dgtvujki4ch4484sq0l0oifdk8tj@4ax.com>
Source record: 17492
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 17 Feb 2009 08:58:06 -0600, Ron <apositiveplace@netscape.net>
wrote:

>k3vr wrote:
>> On Feb 14, 7:36 pm, Ron <apositivepl...@netscape.net> wrote:
>>> k...@hotmail.com wrote:

>>>
>>>
>>>> but it is tru I don't cae if you and/or others are anoyed
>>>> if you understood enligh you understand that difference
>>> If you wrote English it sure would make it easier to understand your
>>> meaning.
>>
>> since it is bsivlous beyond your understand maybe you should stfu
>
>Hmmm, I could, but then again just about anyone who reads here is going
>to have issues trying to understand what it is you are attempting to
>write.

so what?

indeed I think you just proved you CAN't stfu

> Only those who have not gotten beyond third grade would be able
>to glean an infinitesimal portion of your meaning.

ah yes crude insults and of course untrue
>
>Now, since you obviously have little or nothing to contribute to any of
>the news groups to which you post your spam, maybe I can appeal to your
>limited sense of humanity and get you to "stfu".
>
what spam?

why don't you try stoping your cyber crimes and thing will get gbetter

1169. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 18:57:49 UTC
From: k3vr@hotmail.com
Message-ID: <a42mp4tb8s8atsg6k7uvai4da2hrhcm9d5@4ax.com>
Source record: 17493
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Tue, 17 Feb 2009 05:29:34 -0800 (PST), mopeyzakween@yahoo.com
wrote:

>On Feb 16, 5:29ï¿½am, "kd8ctl" <anon@anon> wrote:
>> You Hams seem to be very mean sprited toward my husband, Mark.

>the entire thread here, every single post but this one, was fabricated
>by moparholic at hotmail dot com

no it wasn't but you are too OCD to accept reality anymore

1170. get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 18:59:08 UTC
From: k3vr@hotmail.com
Message-ID: <f62mp4tnqbsajn6mc312thjn4ie5238iqu@4ax.com>
Source record: 17494
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 17 Feb 2009 05:33:58 -0800 (PST), mopeyzakween@yahoo.com
wrote:

>Conviction 1
>
> LUCAS COUNTY COURT OF COMMON PLEAS
>J. BERNIE QUILTER, CLERK

get a life stalker or take this to LS at the FCC who might do
soemthing about it

1171. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 19:00:42 UTC
From: k3vr@hotmail.com
Message-ID: <oa2mp417047qaojghd657dtauv2m6tau1e@4ax.com>
Source record: 17495
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

1172. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 19:02:17 UTC
From: mopeyzakween@yahoo.com
Message-ID: <3d495fe9-be8a-47f5-90c7-dade35d4982d@e25g2000vbe.googlegroups.com>
Source record: 17496
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 17, 1:59 pm, k...@hotmail.com wrote:
> On Tue, 17 Feb 2009 05:33:58 -0800 (PST), mopeyzakw...@yahoo.com
> wrote:
>
> >Conviction 1
>
> > LUCAS COUNTY COURT OF COMMON PLEAS
> >J. BERNIE QUILTER, CLERK
>
> get a life stalker or take this to LS at the FCC who might do
> soemthing about it

get cancer and die slowly with so much pain that a quart of dilaudid
and hour won't help, assmunch

1173. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 19:03:55 UTC
From: mopeyzakween@yahoo.com
Message-ID: <528c700c-5f1d-4bf3-a617-ce0b152d4a28@q18g2000vbn.googlegroups.com>
Source record: 17497
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Feb 17, 1:57 pm, k...@hotmail.com wrote:
> On Tue, 17 Feb 2009 05:29:34 -0800 (PST), mopeyzakw...@yahoo.com
> wrote:
>
> >On Feb 16, 5:29 am, "kd8ctl" <anon@anon> wrote:
> >> You Hams seem to be very mean sprited toward my husband, Mark.
> >the entire thread here, every single post but this one, was fabricated
> >by moparholic at hotmail dot com
>
> no it wasn't but you are too OCD to accept reality anymore

didn't you die of deep bowel cancer yet? damn.

1174. Soldered copper connections exposed to elements

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 19:56:50 UTC
From: Tim Shoppa <shoppa@trailing-edge.com>
Message-ID: <38c06d58-4580-4acb-b3e8-b07fbcf1134b@v15g2000yqn.googlegroups.com>
Source record: 17498

My homebrew open wire line has spacers held on by soldered tie wires every foot. So, in the 90 foot rise, a lot of tie wires. I used copper wire and 60/40 solder.

While the copper wire has certainly acquired a greenish patina over the years, if I inspect the soldered connections they have flaky white-gray stuff on the outside. It seems to be pretty soft and if I scratch at it I can see shiny solder underneath.

The green on the copper is copper carbonate, I suppose. The whitish stuff on the solder joints is maybe lead carbonate, lead acetate, lead sulfide, maybe tin something?

Is the chemical reaction progressive, or does the coating on the outside stop further reactions from going on in the joint?

Any lessons I should learn about protecting outdoors soldered joints? The environment is pretty benign, just hot summers, cold winters, occasional ice storms, no saltwater air.

Tim N3QE

1175. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 20:13:23 UTC
From: k3vr@hotmail.com
Message-ID: <li6mp4lbrmgcqjeku0jj08ghn8h5gf2it3@4ax.com>
Source record: 17499
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 17 Feb 2009 11:02:17 -0800 (PST), mopeyzakween@yahoo.com
wrote:

>On Feb 17, 1:59ï¿½pm, k...@hotmail.com wrote:
>> On Tue, 17 Feb 2009 05:33:58 -0800 (PST), mopeyzakw...@yahoo.com
>> wrote:
>>
>> >Conviction 1
>>
>> > LUCAS COUNTY COURT OF COMMON PLEAS
>> >J. BERNIE QUILTER, CLERK
>>
>> get a life stalker or take this to LS at the FCC who might do
>> soemthing about it
>
>get cancer and die slowly with so much pain that a quart of dilaudid
>and hour won't help, assmunch

poor ocd sicko

1176. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 21:14:17 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gnf9eq$qd8$1@news.service.uci.edu>
Source record: 17500

Ian Jackson wrote:
> It's pretty hard to keep secret the location of (say) a 1000 foot TV
> transmitter mast!

Not much of a T-hunting challenge, is it. :-)

ac6xg

1177. Re: Soldered copper connections exposed to elements

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 21:41:31 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <8cf0dd38-0d66-48a8-b5fb-2cefab64b5ad@13g2000yql.googlegroups.com>
Source record: 17401

On Feb 17, 2:56 pm, Tim Shoppa <sho...@trailing-edge.com> wrote:
> My homebrew open wire line has spacers held on by soldered tie wires
> every foot. So, in the 90 foot rise, a lot of tie wires. I used copper
> wire and 60/40 solder.
>
> While the copper wire has certainly acquired a greenish patina over
> the years, if I inspect the soldered connections they have flaky white-
> gray stuff on the outside. It seems to be pretty soft and if I scratch
> at it I can see shiny solder underneath.
>
> The green on the copper is copper carbonate, I suppose. The whitish
> stuff on the solder joints is maybe lead carbonate, lead acetate, lead
> sulfide, maybe tin something?
>
> Is the chemical reaction progressive, or does the coating on the
> outside stop further reactions from going on in the joint?
>
> Any lessons I should learn about protecting outdoors soldered joints?
> The environment is pretty benign, just hot summers, cold winters,
> occasional ice storms, no saltwater air.
>
> Tim N3QE

Maintenance would would certainly add to the longevity of the solder
joints.
As is they may only last a hundred years or so.

Jimmie

1178. Re: Complete info on the faggy convicted stalker of women, Robert Trendel, KD8IMG

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 23:19:26 UTC
From: mopeyzakween@yahoo.com
Message-ID: <b0f25130-1f82-48f3-bbee-5123de8e0919@v13g2000vbb.googlegroups.com>
Source record: 17402
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

```
On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:
> Conviction 1
>
>  LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO  TIME:    1:16:32 PM
> DATE:    2/13/2009
>
> CASE:  G  -4801  -CI  -200802161-000
> TITLE:  LEE VS TRENDEL
> JUDGE:  JAMES D. BATES     STATUS:    CLOSED/TERM'D
> FILING DATE:  2/20/2008  CASE TYPE:    CPO    STALK CIV PROTECT ORD -
> MISC
>
> ---------------------------------------------------------------------------
> MONETARY AMOUNT:     DOCKET/PAGE:
> ORIGINAL COURT:     TAX TYPE:
> PREVIOUS CASE NUMBER:     STATE OF OHIO NUMBER:
>
> ---------------------------------------------------------------------------
>  Party     Counsel
> Plaintiff 1:
>  LEE KATHLEEN
>
> Defendant 1:
>  TRENDEL ROBERT
>
> Alias(es)
> TRENDEL ROBERT
>
> ---------------------------------------------------------------------------
> DATE  SEQ  EVENT
>
> 2/20/2008 1 Title : OPN:CPO PETITION FILED
>   PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 1 Title : ORD:REQ'T EXT TO PLD GRANTED
>   EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
>   HEARING TO FEB. 29, 2008 AT 1 P.M.
>   PARTY : -
>
```

> 2/21/2008 3 Title : MIS:COURTROOM CASE NOTES
>   SENT EX PARTE ORDER ORDINARY MAIL TO RESPONDENT, ROBERT
>   TRENDEL.
>   PARTY : -
>
> 2/21/2008 4 Title : EVT:CPO SENT SHERIFF FOR SERVE
>   COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
>   LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
>   ROBERT L TRENDEL
>   PARTY : D1 - TRENDEL ROBERT
>
> 2/21/2008 5 Title : EVT:HAND DELIV SERVE BY BAILIF
>   NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
>   THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
>   PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
>   PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 6 Title : SRV:COPIES MAILED
>   COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 7 Title : EVT:EX PARTE CPO FILED/JOUR
>   EJOURNALIZED 2-27-08
>   PARTY : P1 - LEE KATHLEEN
>
> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
>   LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
>   CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
>   THAT THERE WAS NO RESPONSE TO NOTES LEFT
>   PARTY : D1 - TRENDEL ROBERT
>
> 2/29/2008 1 Title : ORD:ORDER
>   Court reporter Kim Kohls ordered. The matter was called
>   for a full hearing on February 29, 2008, on a request for
>   a Civil Protection Stalking Order filed on February 20,
>   2008. Petitioner KATHLEEN LEE was present. Respondent
>   ROBERT TRENDEL was present with his attorney DAVID F.
>   WILEY. At the request of Respondent, the full hearing is
>   continued until March 13, 2008 at 1:00 p.m. IT IS
>   THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing
>   scheduled for February 29, 2008, is ORDERED continued
>   until March 13, 2008 at 1:00 p.m.
>   IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking
>   Protection Order granted on February 21, 2008, shall
>   remain in full force and effect until March 13, 2008.
>
>   See Order.
>   PARTY : -

>
> 2/29/2008 2 Title : HRG:HEARING SET
>   FULL HEARING 3/13/08 1:00 P.M.
>   PARTY : -
>
> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
>   JOURNALIZED 03/05/2008
>   PERTAINING TO ORDER TO CONTINUE CSPO HEARING TO 3/13/08
>   PARTY : P1 - LEE KATHLEEN
>
> 3/3/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING
>   PROTECTION ORDER TO 3/13/2008 AT 1:00 P.M. IN
>   COURTROOM #2 MAILED ORDINARY TO PETITIONER AND RESPONDENT
>   AND TO DAVID WILEY ATTORNEY.
>
>   COPIES ALSO LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
>   FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL FORCE
>   AND EFFECT THROUGH 3-12-2010.
>   PARTY : -
>
> 3/13/2008 2 Title : CLS:CPO CLOSED
>   PARTY : -
>
> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   CHRIS IN COURTROOM #2 PERSONALLY SERVED BOTH THE PETITIONER
>   AND RESPONDENT WITH COPIES OF CIVIL STALKING PROTECTION
>   ORDER FULL HEARING
>   PARTY : P1 - LEE KATHLEEN
>
> 3/14/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF CIVIL STALKING PROTECTION ORDER AND FORM 10-A NCIC
>   LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND
>   TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
>   EJOURNALIZED 03/14/2008
>   PERTAINING TO ORDER OF PROTECTION FULL HEARING
>   PARTY : P1 - LEE KATHLEEN
>
> 4/14/2008 1 Title : PLD:DOCKETING STATEMENT
>   PARTY : P1 - LEE KATHLEEN
>
> 4/14/2008 2 Title : PLD:PRAECIPE FILED
>   PARTY : P1 - LEE KATHLEEN

>
> 4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
>   PARTY : P1 - LEE KATHLEEN
>
> 4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
>   NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
>   TO KATHLEEN LEE
>   322 BURGER STREET
>   TOLEDO, OH 43605
>   PARTY : D1 - TRENDEL ROBERT
>
> 4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
>   L08-1111
>   PARTY : P1 - LEE KATHLEEN
>
> 5/5/2008 1 Title : PLD:PRAECIPE FILED
>   AMENDED PRAECIPE PURSUANT TO 6TH DIST.LOC.APP.R.3(B)
>   PARTY : P1 - LEE KATHLEEN
>
> Conviction 2, this one is even better...it is his NEXT DOOR NEIGHBOR
>
> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:18:30 PM
> DATE: 2/13/2009
>
> CASE: G -4801 -CI -200802176-000
> TITLE: SZYMANSKI VS TRENDEL
> JUDGE: JAMES D. BATES   STATUS: CLOSED/TERM'D
> FILING DATE: 2/21/2008 CASE TYPE: CPO   STALK CIV PROTECT ORD -
> MISC
>
> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:
>
> ---
> Party   Counsel
> Plaintiff 1:
> SZYMANSKI DONNA S
>
> Defendant 1:
> TRENDEL ROBERT L
>
> Alias(es)
> TRENDEL ROBERT
>
> ---

> DATE SEQ EVENT
>
> 2/21/2008 1 Title : OPN:CPO PETITION FILED
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 2 Title : JRE:EXISTING PENDING CASE
>   PARTY : -
>
> 2/21/2008 3 Title : EVT:CPO SENT SHERIFF FOR SERVE
>   COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
>   LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
>   ROBERT L TRENDEL
>   PARTY : D1 - TRENDEL ROBERT L
>
> 2/21/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
>   THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
>   PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 5 Title : SRV:COPIES MAILED
>   COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND A
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 7 Title : EX PARTE PROTECT ORD 2903.214
>   EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
>   HEARING ON 2-29-08 AT 1 P.M.
>   RESPONDENT SHALL NOT DISSEMINATE ANY INFORMATION ABOUT THE
>   OVER C.B. RADIO. THE RESPONDENT SHALL NOT APPEAR AT THE
>   POLICE DEPARTMENT FROM 2:30 P.M. TO 11:00 P.M WHILE THE
>   PETITIONER IS AT WORK.
>   PARTY : -
>
> 2/21/2008 8 Title : MIS:COURTROOM CASE NOTES
>   SENT EX PARTE ORDER TO RESPONDENT BY ORDINARY MAIL.
>   PARTY : -
>
> 2/21/2008 9 Title : EVT:EX PARTE CPO FILED/JOUR
>   EJOURNALIZED 2-26-08
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
>   LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
>   CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
>   THAT THERE WAS NO RESPONSE TO NOTES LEFT.
>   PARTY : D1 - TRENDEL ROBERT L
>
> 2/29/2008 1 Title : ORD:ORDER

>   Court reporter Kim Kohls ordered. The matter was called
>   for a full hearing on February 29, 2008, on a request for
>   a Civil Protection Stalking Order filed on February 21,
>   2008. Petitioner DONNAL S SZYMANSKI was present.
>   Respondent ROBERT L TRENDEL was present with his attorney
>   DAVID F. WILEY. At request of Respondent, the full
>   hearing is continued until March 13, 2008 at 1:00 p.m.IT
>   IS THEREFORE ORDERED, ADJUDGED AND DECREED that the
>   Hearing scheduled for February 29, 2008, is ORDERED
>   continued until March 13, 2008, at 1:00 p.m. IT IS
>   FURTHER ORDERED, that the Ex-Parte Civil Stalking
>   Protection Order granted on February 20, 2008, shall
>   remain in full force and effect until March 13, 2008.
>
>   See Order.
>   PARTY : -
>
> 2/29/2008 2 Title : HRG:HEARING SET
>   FULL HEARING 3/13/08 AT 1:00 P.M.
>   PARTY : -
>
> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
>   JOURNALIZED 03/05/2008
>   PERTAINING TO ORDER TO CONTINUING CSPO HEARING TO 3/13/08
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
>   FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL
>   FORCE AND EFFECT THROUGH 3-12-2010.
>   PARTY : -
>
> 3/13/2008 2 Title : CLS:CPO CLOSED
>   PARTY : -
>
> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
>   PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
>   BY CHRIS IN COURTROOM #2
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/14/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
>   EJOURNALIZED 03/14/2008
>   PERTAINING TO ORDER OF PROTECTION FULL HEARING
>   PARTY : P1 - SZYMANSKI DONNA S

>
> 4/14/2008 1 Title : PLD:PRAECIPE FILED
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 4/14/2008 2 Title : PLD:DOCKETING STATEMENT
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
>   PARTY : D1 - TRENDEL ROBERT L
>
> 4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
>   NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
>   TO CHRISTOPHER F. PARKER, ESQ
>   405 MADISON AVE, SUITE 2200
>   TOLEDO, OH 43604-1224
>   PARTY : D1 - TRENDEL ROBERT L
>
> 4/15/2008 3 Title : MIS:CLERKS OFFICE NOTES
>   PETITION FOR EX PARTE CIVIL STALKING PROTECTION ORDER
>   WAS
> ...
>
> read more »

On Tue, 17 Feb 2009 11:02:17 -0800 (PST), mopeyzakw...@yahoo.com
wrote:

>On Feb 17, 1:59 pm, k...@hotmail.com wrote:
>> On Tue, 17 Feb 2009 05:33:58 -0800 (PST), mopeyzakw...@yahoo.com
>> wrote:

>> >Conviction 1

>> > LUCAS COUNTY COURT OF COMMON PLEAS
>> >J. BERNIE QUILTER, CLERK

>> get a life stalker or take this to LS at the FCC who might do
>> soemthing about it

>get cancer and die slowly with so much pain that a quart of dilaudid
>and hour won't help, assmunch

poor ocd sicko

poor dork stroking asswipe. Your wife and moparholic's transgendered
pig get together for sessions with rover, don't they?

1179. Re: Got my tube preamp dialed in

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-17 23:24:59 UTC
From: mopeyzakween@yahoo.com
Message-ID: <6db6830c-bf26-4fb6-94a9-6e798a6a9d6f@m4g2000vbp.googlegroups.com>
Source record: 17403
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Feb 13, 10:23 pm, Steve <moparho...@hotmail.com> wrote:
> Barely fuzzy.
>
> --
> http://NewsReader.Com/

who cares, punk? go die of cancer so deep in your guts the nurses have
to put in earplugs to handle the screaming. Let me know when you get
it so I can come to the hospital and make fun of you.

1180. get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 00:00:30 UTC
From: k3vr@hotmail.com
Message-ID: <jqjmp4542nrppe0v3pktuacvetl2jc6ok3@4ax.com>
Source record: 17404
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Tue, 17 Feb 2009 15:19:26 -0800 (PST), mopeyzakween@yahoo.com
wrote:

>On Feb 17, 8:33ï¿½am, mopeyzakw...@yahoo.com wrote:
>> Conviction 1
>>

get a life stalker or at leasts end this somewhere it might have an
effect

1181. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 00:00:55 UTC
From: k3vr@hotmail.com
Message-ID: <9tjmp4d7g3fh3fp0631itb47bad3cmg7b1@4ax.com>
Source record: 17405
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Tue, 17 Feb 2009 15:24:59 -0800 (PST), mopeyzakween@yahoo.com
wrote:

>On Feb 13, 10:23ï¿½pm, Steve <moparho...@hotmail.com> wrote:
>> Barely fuzzy.
>>
>> --
>> ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½http://NewsReader.Com/
>
>who cares, punk? go die of cancer so deep in your guts the nurses have
>to put in earplugs to handle the screaming. Let me know when you get
>it so I can come to the hospital and make fun of you.

please grow up and get a life

1182. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 01:39:19 UTC
From: beerbelly <aveinatech@samoatelco.com>
Message-ID: <04c85bc3-c871-4356-8c7a-4922b344ec82@v39g2000pro.googlegroups.com>
Source record: 17406

On Feb 15, 6:59 pm, Bill Bowden <wrongaddr...@att.net> wrote:
> Anybody have a good antenna design for the new UHF digital TV
> stations?
>
> I get reasonable results from my old VHF/UHF antenna (55% signal
> strength) , but it's big and ugly, and I want to replace it with a
> smaller, more efficient UHF design (maybe a Yagi) I can construct at
> home.
>
> Anybody know the dimensions of such an antenna, probabaly in the
> frequency range of 400-800 Mhz ?
>
> -Bill

All my antennas for DTV and analogue are Quads and Quagi antennas. A two element Quad for channel 2 and 5 VHF(its wideband enough for this), a three element for channel 11 VHF and a 9 element Quargi for channel 63 UHF. Thats all the TV
stations we have here on the island. Easy and cheap to make and they perform like hormones IMHO. My non technical wife says they and the array looks like a Christmas tree, therefore not ugly but cute -)
Need more info... Tons on the Inet or let me know.
Chris

1183. Re: Hex Beam in QST

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 02:53:49 UTC
From: "H. Adam Stevens" <hstevens8395@att.net>
Message-ID: <NKKml.10866$hc1.103@flpi150.ffdc.sbc.com>
Source record: 17407

Phil, HK3SA
http://www.spiderwebnet.net/images/Amazon%20Queen/August%2028%202005/Amazon%20Queen%20on%20Peruvian%20Island.jpg
likes his commercial hex beam.

73,
H.
NQ5H

"john Wiener" <jawod@fuse.net> wrote in message
news:8f1c6$4999daf4$d8c4d49f$14935@FUSE.NET...
> Anyone care to comment on the relative merits of the hex beam project in
> QST vs. the commercial hex beam offered by Traffie Technology?
>
> I don't understand the means of feed for the multiband elements as shown
> in the QST article.
>
> I also don't understand the $1100 plus price tag for a similar set up by
> Traffie.
>
> The light weight and portability appeal to me. I've not done a homebrew
> beam but a kit at a decent price point would be welcome.
>
> John
> AB8O

1184. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 03:12:21 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <6b9a5fc2-0cd8-4c1b-8f2a-59ce7267be4f@t11g2000yqg.googlegroups.com>
Source record: 17408
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Feb 17, 2:03 pm, mopeyzakw...@yahoo.com wrote:
> On Feb 17, 1:57 pm, k...@hotmail.com wrote:
>
> > On Tue, 17 Feb 2009 05:29:34 -0800 (PST), mopeyzakw...@yahoo.com
> > wrote:
>
> > >On Feb 16, 5:29 am, "kd8ctl" <anon@anon> wrote:
> > >> You Hams seem to be very mean sprited toward my husband, Mark.
> > >the entire thread here, every single post but this one, was fabricated
> > >by moparholic at hotmail dot com
>
> > no it wasn't but you are too OCD to accept reality anymore
>
> didn't you die of deep bowel cancer yet? damn.

poor hate filled sicko

1185. Re: Soldered copper connections exposed to elements

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 03:28:53 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz84@charter.net>
Message-ID: <4gLml.14018$fM1.7370@newsfe14.iad>
Source record: 17409

"Tim Shoppa" <shoppa@trailing-edge.com> wrote in message
news:38c06d58-4580-4acb-b3e8-b07fbcf1134b@v15g2000yqn.googlegroups.com...
> My homebrew open wire line has spacers held on by soldered tie
> wires every foot. So, in the 90 foot rise, a lot of tie wires. I
> used copper wire and 60/40 solder.
>
> While the copper wire has certainly acquired a greenish patina
> over the years, if I inspect the soldered connections they have
> flaky white-gray stuff on the outside. It seems to be pretty soft
> and if I scratch at it I can see shiny solder underneath.
>
> The green on the copper is copper carbonate, I suppose. The
> whitish stuff on the solder joints is maybe lead carbonate, lead
> acetate, lead sulfide, maybe tin something?

Mostly carbonates and oxides, I would think. The solubility in
water is low but is greatly increased by dissolved carbon dioxide.
Wash your hands well before consuming food if you get the corrosion
products on you.

> Is the chemical reaction progressive, or does the coating on the
> outside stop further reactions from going on in the joint?

Yes the reaction is progressive. The surface coatings will slow the
reaction but not stop it. According to one of my sources, lead/tin
solder is slightly anodic with respect to copper meaning that the
solder will be corroded away protecting the copper. Another
source says the reverse is true. However lead, tin, their alloys,
and copper are all close to each other in the galvanic series.

The only hard data I have is for 50/50 solder and copper in flowing
seawater, and your application is a far milder environment. The
potential difference is between 0.01 and 0.03 volts which is quite
low. Because of this, I expect your transmission line will last
quite a long while.

> Any lessons I should learn about protecting outdoors soldered
> joints? The environment is pretty benign, just hot summers, cold
> winters, occasional ice storms, no saltwater air.

I would avoid soldering to galvanized or cadmium plated steel. But
to connect to an aluminum alloy antenna you may have to use zinc
plated terminals between the copper and the aluminum. In this case,
I would clean the solder flux off the connection and then liberally
paint the connection with a good outdoor paint. Acrylic paints will
weather the best here.

The worst thing in your vicinity for corrosion is acid rain.
Waterproofing the connections will help protect against this.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz84@charter.net
[transpose digits to reply]

1186. Re: Digital TV Antenna Design

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 04:59:09 UTC
From: Bill Bowden <wrongaddress@att.net>
Message-ID: <805f047e-d8a4-42ea-99dc-30596520e9dc@h16g2000yqj.googlegroups.com>
Source record: 17410

On Feb 16, 10:35 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
> "MTV" <volztexas...@comcast.net> wrote in message
>
> news:IRhml.269855$NN4.179705@en-nntp-08.dc1.easynews.com...
>
>
>
> > Bill Bowden wrote:
> > > Anybody have a good antenna design for the new UHF digital TV
> > > stations?
>
> > > I get reasonable results from my old VHF/UHF antenna (55% signal
> > > strength) , but it's big and ugly, and I want to replace it with a
> > > smaller, more efficient UHF design (maybe a Yagi) I can construct at
> > > home.
>
> > > Anybody know the dimensions of such an antenna, probabaly in the
> > > frequency range of 400-800 Mhz ?
>
> > > -Bill
>
> > You could just cut off the long VHF elements and use them, cut to UHF
> > size, to extend and increase the number of director elements.
>
> > MTV
>
> Yes. I have a seven foot TV parabola on my roof, but my next-best antenna
> is an absolute piece of junk, literally. My neighbor was throwing out an
> all-channel antenna that was blown down in a storm and badly damaged. I
> clipped the connections between the UHF & VHF sections and hacksawed off the
> mostly undamaged UHF section (12 directors, I think). With a section of
> pipe rudely jammed into the boom as a counterweight, I'm pulling in stations
> 125 miles away almost as well as with the parabola.
>
> Turning other people's discards into functional devices is an art. (I'm the
> guy who worked Hawaii on 20m with 100 Watts into an extension ladder. ...
> and no, I wasn't feeding it with ladder line.)
>
> "Sal"
> (KD6VKW)

I found an old 5 element yagi cut for channel 52 which was used years
ago for a pay TV station called "ON TV". It has 3 (10.5 inch)

directors spaced apart 5 inches, one (12 inch) reflector and the driven element is about 11 inches. The diameter of all elements is a little larger than a coat hanger.

Wondering what the bandwidth would be for other UHF stations below and above 52?

And is there an easy way to modify it for wider band?

I also need to get the high VHF band for channel 7-13, so maybe one more reflector is needed?

-Bill

1187. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 06:05:41 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <XyNml.10083$EO2.9626@newsfe04.iad>
Source record: 17411
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

"Phil Allison" <philallison@tpg.com.au> wrote in message
news:6vvkooFlviahU1@mid.individual.net...
>
> "Frnak McKenney"
> > http://ts.nist.gov/MeasurementServices/Calibrations/Upload/SP250-67.pdf
> ** Just how big is this file - eh ??
> Why did you limit replies to ONE newsgroup while posting to TWO ???
> What sort to total FUCKING ASSHOLE are you ????
> You fucking ASININE YANK cunt- head.
> ..... Phil

Uh-oh! Looks like somebody isn't getting enough fiber!

1188. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 08:03:44 UTC
From: Tim Wescott <tim@seemywebsite.com>
Message-ID: <B5mdnZeMxPJ9XQbUnZ2dnUVZ_j8AAAAA@web-ster.com>
Source record: 17412

On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney wrote:

> Back in December I posted a question about ways to receive LF/VLF radio
> signals. Based on the suggestions made by a number of people here I
> decided to use my existing Heathkit Mohican receiver and add this
> upconverter kit from Jackson Harbor:
>
> http://jacksonharbor.home.att.net/lfconv.htm
>
> The kit arrived and was half assembled before I turned on the Mohican,
> its first power-up in some years; the horrible squeal that erupted from
> the speaker put a bit of a damper on things. It now appears that
> replacing the two output transistors (Germanium, no less!) with
> NTE102As from Mouser will fix that, so I'm thinking about an antenna
> that might be a little more snesitive to LF signals than the Mohican's
> built-in whip.
>
> Along those lines, I have a couple of (what I hope are) simple questions
> that I'm hoping someone can help me get started with.
>
> First, the need for impedance matching between an antenna and a
> receiver. My understanding is that a resonant halfwave dipole will have
> an impedance around 73 Ohms; unfortunately, unless I can obtain research
> funding from the just-passed Congressional Economic Stimulus bill I'm
> going to have trouble paying for 2.5km of copper wire, some towers, a
> crateload or two of porcelain insulators,and the land to build it on.
> (Hey, I promise to dump it back into the economy ASAP. Really!
> <grin!>)
>
> So any non-loop antenna I can construct will necessarily be a "short
> wire" or "electrically small" antenna (two useful search terms). But how
> does one go about calculating the impedance of a coat hanger or an
> extension cord ("short piece of wire")?
>
> I've done Google seaarches and read what seemed like the relevant
> sections of the 2004 ARRL Radio Handbook and their Antenna Book;
> unfortunately, most authors restrict their discussion to quarter- wave
> or longer antennae. Any starting points, hints, or references on
> impedance calculations for less-than-1/10-wavelength antennas will be
> appreciated.
>
> My other question has to do with how to interpret signal strength. The
> first "standard reference" transmitter I'll be attempting to receive
> will be WWVB out of Fort Collins, Colorado (60kHz/5000m). Per the NIST

> documentation at:
>
> NIST Special Publication 250-67: NIST Time and Frequency Radio
> Stations: WWV, WWVH, and WWVB
> http://ts.nist.gov/MeasurementServices/Calibrations/
> Upload/SP250-67.pdf
>
> figure 4.5 seems to say that I could reasonably expect to see a signal
> of at least 100uV/m. Does this mean that I should expect to see 100uV
> from any one-meter hunk of wire strung out horizontally in the optimum
> direction? Or is there something more subtle going on I need to be aware
> of?
>
This may be a duplicate answer: I _know_ I wrote one, but it seems to
have fallen into the bit-bucket.

In short:

For receiving you don't need to couple well enough to the ether to
overwhelm the receiver's noise with the Faintest Possible Signal. You
only need to overwhelm the receiver's noise with atmospheric noise.
Given the amount of atmospheric noise at 60kHz, that ain't hard.

When you get to the point where you hook up the antenna to the rig and
you heard static over the noise of the receiver, you know your antenna is
good enough.

(Transmitting is a different story, but try transmitting at 60kHz and
after the FCC gets done with you antenna size will be the least of your
worries.)

Whazza matta widda loop? They work fine, they provide some welcome
selectivity (well, at 60kHz one may provide _too much_ selectivity),
they're easy to construct, they're reputed to reject sky waves -- what
more could you want?

If you don't want to use a loop, the last time I did anything at MF a
short (1m) whip going to a JFET source follower was considered the bee's
knees to solve this sort of problem. The whip will pick up atmospheric
noise just as well as it'll pick up the intended signal, the JFET will
impedance match from that low-capacity whip to your receiver input (I
assume, I don't know what the nominal input impedance of your rig is),
and all will be well.

--
http://www.wescottdesign.com

1189. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 11:20:01 UTC
From: ml <m@di.net>
Message-ID: <m-0CCAC8.06200118022009@news.optonline.net>
Source record: 17413

In article
<85b9a2a9-652d-4871-a97b-c8e5b7edd1fa@m15g2000vbp.googlegroups.com>,
bulegoge@columbus.rr.com wrote:

> Hi,
>
>
> I have created a Smith Chart Tutorial located here:
>
>
> http://www.fourier-series.com/rf-concepts/smithchart.html
>
>
> It is comprised of flash programs with embedded audio. It allows you
> to learn the smith chart through the interactive nature of the flash
> program.
>
>
> I have completed three flash programs on this subject, and intend to
> write two more. The tutorial explains the smith chart, allows for
> capacitive/inductive matching and introduces how a transmision line
> affects the reflection coefficient.
>
>
> Good Luck with this
>
>
> Brent

this was really nice I am surprized that NOBODY left any comments

thanks

1190. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 11:34:24 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <5IxEZcUAJ$mJFw6$@g3ohx.demon.co.uk>
Source record: 17414

In message <m-0CCAC8.06200118022009@news.optonline.net>, ml <m@di.net>
writes
>In article
><85b9a2a9-652d-4871-a97b-c8e5b7edd1fa@m15g2000vbp.googlegroups.com>,
> bulegoge@columbus.rr.com wrote:
>
>> Hi,
>>
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>> I have created a Smith Chart Tutorial located here:
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>> http://www.fourier-series.com/rf-concepts/smithchart.html
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>> write two more. The tutorial explains the smith chart, allows for
>> capacitive/inductive matching and introduces how a transmision line
>> affects the reflection coefficient.
>>
>>
>> Good Luck with this
>>
>>
>> Brent
>
>this was really nice I am surprized that NOBODY left any comments
>
>thanks

I was waiting for someone else to do it first!
Yes indeed, much appreciated.

I also liked the one on transmission lines - very informative.
<http://www.fourier-series.com/rf-concepts/flash_programs/Reflection/inde
x.html>
--
Ian

1191. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 11:50:55 UTC
From: neddie <seegoon99@yahoo.com>
Message-ID: <4f0696fd-9cdb-4e14-b321-4f0c8bc324ef@w35g2000yqm.googlegroups.com>
Source record: 17415
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

On Feb 18, 8:05 am, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
> "Phil Allison" <philalli...@tpg.com.au> wrote in message
>
> news:6vvkooFlviahU1@mid.individual.net...
>
>
>
> > "Frnak McKenney"
> > > http://ts.nist.gov/MeasurementServices/Calibrations/Upload/SP250-67.pdf
> > ** Just how big is this file - eh ??
> > Why did you limit replies to ONE newsgroup while posting to TWO ???
> > What sort to total FUCKING ASSHOLE are you ????
> > You fucking ASININE YANK cunt- head.
> > ..... Phil
>
> Uh-oh! Looks like somebody isn't getting enough fiber!

Someone woke up on the wrong side of NOBODY again....

1192. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 14:11:29 UTC
From: "J.A. Legris" <jalegris@sympatico.ca>
Message-ID: <83671e9e-b818-4cd0-91cf-19f35a688b5e@e10g2000vbe.googlegroups.com>
Source record: 17416

On Feb 16, 11:22 pm, Frnak McKenney
<fr...@far.from.the.madding.crowd.com> wrote:
> Back in December I posted a question about ways to receive LF/VLF
> radio signals. Based on the suggestions made by a number of people
> here I decided to use my existing Heathkit Mohican receiver and add
> this upconverter kit from Jackson Harbor:
>
> http://jacksonharbor.home.att.net/lfconv.htm
>
> The kit arrived and was half assembled before I turned on the
> Mohican, its first power-up in some years; the horrible squeal that
> erupted from the speaker put a bit of a damper on things. It now
> appears that replacing the two output transistors (Germanium, no
> less!) with NTE102As from Mouser will fix that, so I'm thinking
> about an antenna that might be a little more snesitive to LF signals
> than the Mohican's built-in whip.
>
> Along those lines, I have a couple of (what I hope are) simple
> questions that I'm hoping someone can help me get started with.
>
> First, the need for impedance matching between an antenna and a
> receiver. My understanding is that a resonant halfwave dipole will
> have an impedance around 73 Ohms; unfortunately, unless I can obtain
> research funding from the just-passed Congressional Economic
> Stimulus bill I'm going to have trouble paying for 2.5km of copper
> wire, some towers, a crateload or two of porcelain insulators,and
> the land to build it on. (Hey, I promise to dump it back into the
> economy ASAP. Really! <grin!>)
>
> So any non-loop antenna I can construct will necessarily be a "short
> wire" or "electrically small" antenna (two useful search terms).
> But how does one go about calculating the impedance of a coat hanger
> or an extension cord ("short piece of wire")?
>
> I've done Google seaarches and read what seemed like the relevant
> sections of the 2004 ARRL Radio Handbook and their Antenna Book;
> unfortunately, most authors restrict their discussion to quarter-
> wave or longer antennae. Any starting points, hints, or references
> on impedance calculations for less-than-1/10-wavelength antennas
> will be appreciated.
>
> My other question has to do with how to interpret signal strength.
> The first "standard reference" transmitter I'll be attempting to
> receive will be WWVB out of Fort Collins, Colorado (60kHz/5000m).

> Per the NIST documentation at:
>
>   NIST Special Publication 250-67: NIST Time and Frequency Radio
>   Stations: WWV, WWVH, and WWVB
> http://ts.nist.gov/MeasurementServices/Calibrations/
>   Upload/SP250-67.pdf
>
> figure 4.5 seems to say that I could reasonably expect to see a
> signal of at least 100uV/m. Does this mean that I should expect to
> see 100uV from any one-meter hunk of wire strung out horizontally in
> the optimum direction? Or is there something more subtle going on I
> need to be aware of?
>
> Frank McKenney

A field strength measured in 100 uV/meter is just that, but the problem getting the energy out of the air and into a receiver.

A short linear antenna has a very low radiation resistance (<< 1 ohm) which is a poor match to a practical transmission line, whose characteristic impedance is typically 1000's of times larger. The radiation resistance of an antenna is the component of its complex impedance that is associated with the power captured. Balanis (Antenna Theory Analysis & Design (1997), p.137) gives a formula for the radiation resistance of a short dipole:

R = 80 * pi^2 * (W/L)^2 ohms

where W is the length of the antenna and L is the wavelength. The value for a monopole is roughly half as much again.

Why do you request a non-loop antenna? A small circular loop antenna also has a low radiation resistance but it can be increased by adding turns. Balanis (p.209) gives a formula for the radiation resistance of a small loop:

R = 20 * pi^2 * (C/L)^4 * N^2 ohms

where C is the circumference of the loop, L is the wavelength and N is the number of turns.

Better still is to use a ferrite loop antenna. You may be able to get one out of an old AM radio and adapt it to your receiver. The resulting formula is identical to the above, multiplied by the relative permeability of the core, u (SQUARED !), so you can use a very small-diameter loop and/or fewer turns, getting improved selectivity and sensitivity (i.e. high Q) in a tuned circuit:

R = 20 * pi^2 * (C/L)^4 * N^2 * u^2 ohms

--
Joe

1193. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 15:58:26 UTC
From: mopeyzakween@yahoo.com
Message-ID: <70c17499-befd-4a90-832b-cb8d5327b774@17g2000vbf.googlegroups.com>
Source record: 17417
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 17, 7:00 pm, k...@hotmail.com wrote:
> On Tue, 17 Feb 2009 15:19:26 -0800 (PST), mopeyzakw...@yahoo.com
> wrote:
>
> >On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:
> >> Conviction 1
>
> get a life stalker or at leasts end this somewhere it might have an
> effect

It has an effect, it upsets fags like you...now, go contract bubonic
plague or anthrax or something.

1194. Re: Complete info on the faggy convicted stalker of women, Robert Trendel, KD8IMG

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 15:59:26 UTC
From: mopeyzakween@yahoo.com
Message-ID: <55fb4bb1-e309-4bd7-b270-1e28d886c8ea@u18g2000vbb.googlegroups.com>
Source record: 17418
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:
> Conviction 1
>
> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:16:32 PM
> DATE: 2/13/2009
>
> CASE: G -4801 -CI -200802161-000
> TITLE: LEE VS TRENDEL
> JUDGE: JAMES D. BATES   STATUS: CLOSED/TERM'D
> FILING DATE: 2/20/2008 CASE TYPE: CPO   STALK CIV PROTECT ORD -
> MISC
>
> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:
>
> ---
> Party   Counsel
> Plaintiff 1:
> LEE KATHLEEN
>
> Defendant 1:
> TRENDEL ROBERT
>
> Alias(es)
> TRENDEL ROBERT
>
> ---
> DATE SEQ EVENT
>
> 2/20/2008 1 Title : OPN:CPO PETITION FILED
>   PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 1 Title : ORD:REQ'T EXT TO PLD GRANTED
>   EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
>   HEARING TO FEB. 29, 2008 AT 1 P.M.
>   PARTY : -
>

> 2/21/2008 3 Title : MIS:COURTROOM CASE NOTES
> SENT EX PARTE ORDER ORDINARY MAIL TO RESPONDENT, ROBERT
> TRENDEL.
> PARTY : -
>
> 2/21/2008 4 Title : EVT:CPO SENT SHERIFF FOR SERVE
> COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
> LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
> ROBERT L TRENDEL
> PARTY : D1 - TRENDEL ROBERT
>
> 2/21/2008 5 Title : EVT:HAND DELIV SERVE BY BAILIF
> NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
> THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
> PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
> PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 6 Title : SRV:COPIES MAILED
> COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND
> FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
> SHERIFF AND TOLEDO POLICE DEPT.
> PARTY : P1 - LEE KATHLEEN
>
> 2/21/2008 7 Title : EVT:EX PARTE CPO FILED/JOUR
> EJOURNALIZED 2-27-08
> PARTY : P1 - LEE KATHLEEN
>
> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
> LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
> CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
> THAT THERE WAS NO RESPONSE TO NOTES LEFT
> PARTY : D1 - TRENDEL ROBERT
>
> 2/29/2008 1 Title : ORD:ORDER
> Court reporter Kim Kohls ordered. The matter was called
> for a full hearing on February 29, 2008, on a request for
> a Civil Protection Stalking Order filed on February 20,
> 2008. Petitioner KATHLEEN LEE was present. Respondent
> ROBERT TRENDEL was present with his attorney DAVID F.
> WILEY. At the request of Respondent, the full hearing is
> continued until March 13, 2008 at 1:00 p.m. IT IS
> THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing
> scheduled for February 29, 2008, is ORDERED continued
> until March 13, 2008 at 1:00 p.m.
> IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking
> Protection Order granted on February 21, 2008, shall
> remain in full force and effect until March 13, 2008.
>
> See Order.
> PARTY : -

>
> 2/29/2008 2 Title : HRG:HEARING SET
>   FULL HEARING 3/13/08 1:00 P.M.
>   PARTY : -
>
> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
>   JOURNALIZED 03/05/2008
>   PERTAINING TO ORDER TO CONTINUE CSPO HEARING TO 3/13/08
>   PARTY : P1 - LEE KATHLEEN
>
> 3/3/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING
>   PROTECTION ORDER TO 3/13/2008 AT 1:00 P.M. IN
>   COURTROOM #2 MAILED ORDINARY TO PETITIONER AND RESPONDENT
>   AND TO DAVID WILEY ATTORNEY.
>
>   COPIES ALSO LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
>   FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL FORCE
>   AND EFFECT THROUGH 3-12-2010.
>   PARTY : -
>
> 3/13/2008 2 Title : CLS:CPO CLOSED
>   PARTY : -
>
> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   CHRIS IN COURTROOM #2 PERSONALLY SERVED BOTH THE PETITIONER
>   AND RESPONDENT WITH COPIES OF CIVIL STALKING PROTECTION
>   ORDER FULL HEARING
>   PARTY : P1 - LEE KATHLEEN
>
> 3/14/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF CIVIL STALKING PROTECTION ORDER AND FORM 10-A NCIC
>   LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND
>   TOLEDO POLICE DEPT.
>   PARTY : P1 - LEE KATHLEEN
>
> 3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
>   EJOURNALIZED 03/14/2008
>   PERTAINING TO ORDER OF PROTECTION FULL HEARING
>   PARTY : P1 - LEE KATHLEEN
>
> 4/14/2008 1 Title : PLD:DOCKETING STATEMENT
>   PARTY : P1 - LEE KATHLEEN
>
> 4/14/2008 2 Title : PLD:PRAECIPE FILED
>   PARTY : P1 - LEE KATHLEEN

>
> 4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
> PARTY : P1 - LEE KATHLEEN
>
> 4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
> NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
> TO KATHLEEN LEE
> 322 BURGER STREET
> TOLEDO, OH 43605
> PARTY : D1 - TRENDEL ROBERT
>
> 4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
> L08-1111
> PARTY : P1 - LEE KATHLEEN
>
> 5/5/2008 1 Title : PLD:PRAECIPE FILED
> AMENDED PRAECIPE PURSUANT TO 6TH DIST.LOC.APP.R.3(B)
> PARTY : P1 - LEE KATHLEEN
>
> Conviction 2, this one is even better...it is his NEXT DOOR NEIGHBOR
>
> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:18:30 PM
> DATE: 2/13/2009
>
> CASE: G -4801 -CI -200802176-000
> TITLE: SZYMANSKI VS TRENDEL
> JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
> FILING DATE: 2/21/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
> MISC
>
> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:
>
> ---
> Party Counsel
> Plaintiff 1:
> SZYMANSKI DONNA S
>
> Defendant 1:
> TRENDEL ROBERT L
>
> Alias(es)
> TRENDEL ROBERT
>
> ---

> DATE SEQ EVENT
>
> 2/21/2008 1 Title : OPN:CPO PETITION FILED
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 2 Title : JRE:EXISTING PENDING CASE
>   PARTY : -
>
> 2/21/2008 3 Title : EVT:CPO SENT SHERIFF FOR SERVE
>   COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
>   LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
>   ROBERT L TRENDEL
>   PARTY : D1 - TRENDEL ROBERT L
>
> 2/21/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
>   THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
>   PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 5 Title : SRV:COPIES MAILED
>   COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND A
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/21/2008 7 Title : EX PARTE PROTECT ORD 2903.214
>   EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
>   HEARING ON 2-29-08 AT 1 P.M.
>   RESPONDENT SHALL NOT DISSEMINATE ANY INFORMATION ABOUT THE
>   OVER C.B. RADIO. THE RESPONDENT SHALL NOT APPEAR AT THE
>   POLICE DEPARTMENT FROM 2:30 P.M. TO 11:00 P.M WHILE THE
>   PETITIONER IS AT WORK.
>   PARTY : -
>
> 2/21/2008 8 Title : MIS:COURTROOM CASE NOTES
>   SENT EX PARTE ORDER TO RESPONDENT BY ORDINARY MAIL.
>   PARTY : -
>
> 2/21/2008 9 Title : EVT:EX PARTE CPO FILED/JOUR
>   EJOURNALIZED 2-26-08
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
>   LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
>   CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
>   THAT THERE WAS NO RESPONSE TO NOTES LEFT.
>   PARTY : D1 - TRENDEL ROBERT L
>
> 2/29/2008 1 Title : ORD:ORDER

>   Court reporter Kim Kohls ordered. The matter was called
>   for a full hearing on February 29, 2008, on a request for
>   a Civil Protection Stalking Order filed on February 21,
>   2008. Petitioner DONNAL S SZYMANSKI was present.
>   Respondent ROBERT L TRENDEL was present with his attorney
>   DAVID F. WILEY. At request of Respondent, the full
>   hearing is continued until March 13, 2008 at 1:00 p.m.IT
>   IS THEREFORE ORDERED, ADJUDGED AND DECREED that the
>   Hearing scheduled for February 29, 2008, is ORDERED
>   continued until March 13, 2008, at 1:00 p.m. IT IS
>   FURTHER ORDERED, that the Ex-Parte Civil Stalking
>   Protection Order granted on February 20, 2008, shall
>   remain in full force and effect until March 13, 2008.
>
>   See Order.
>   PARTY : -
>
> 2/29/2008 2 Title : HRG:HEARING SET
>   FULL HEARING 3/13/08 AT 1:00 P.M.
>   PARTY : -
>
> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
>   JOURNALIZED 03/05/2008
>   PERTAINING TO ORDER TO CONTINUING CSPO HEARING TO 3/13/08
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
>   FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL
>   FORCE AND EFFECT THROUGH 3-12-2010.
>   PARTY : -
>
> 3/13/2008 2 Title : CLS:CPO CLOSED
>   PARTY : -
>
> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
>   COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
>   PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
>   BY CHRIS IN COURTROOM #2
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/14/2008 1 Title : SRV:COPIES MAILED
>   COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
>   FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
>   SHERIFF AND TOLEDO POLICE DEPT.
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
>   EJOURNALIZED 03/14/2008
>   PERTAINING TO ORDER OF PROTECTION FULL HEARING
>   PARTY : P1 - SZYMANSKI DONNA S

>
> 4/14/2008 1 Title : PLD:PRAECIPE FILED
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 4/14/2008 2 Title : PLD:DOCKETING STATEMENT
>   PARTY : P1 - SZYMANSKI DONNA S
>
> 4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
>   PARTY : D1 - TRENDEL ROBERT L
>
> 4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
>   NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
>   TO CHRISTOPHER F. PARKER, ESQ
>   405 MADISON AVE, SUITE 2200
>   TOLEDO, OH 43604-1224
>   PARTY : D1 - TRENDEL ROBERT L
>
> 4/15/2008 3 Title : MIS:CLERKS OFFICE NOTES
>   PETITION FOR EX PARTE CIVIL STALKING PROTECTION ORDER
>   WAS
> ...
>
> read more »

Hooray!

1195. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 16:43:26 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <OUWml.200$Ez6.39@nwrddc02.gnilink.net>
Source record: 17419

"ml" <m@di.net> wrote in message
news:m-0CCAC8.06200118022009@news.optonline.net...
> In article
> <85b9a2a9-652d-4871-a97b-c8e5b7edd1fa@m15g2000vbp.googlegroups.com>,
> bulegoge@columbus.rr.com wrote:
>
>> Hi,
>>
>>
>> I have created a Smith Chart Tutorial located here:
>>
>>
>> http://www.fourier-series.com/rf-concepts/smithchart.html
>>
>>
>> It is comprised of flash programs with embedded audio. It allows you
>> to learn the smith chart through the interactive nature of the flash
>> program.
>>
>>
>> I have completed three flash programs on this subject, and intend to
>> write two more. The tutorial explains the smith chart, allows for
>> capacitive/inductive matching and introduces how a transmision line
>> affects the reflection coefficient.
>>
>>
>> Good Luck with this
>>
>>
>> Brent
>
> this was really nice I am surprized that NOBODY left any comments
>
> thanks

Hi ML

I had sent Brent an E-mail as soon as I read Brent's link. That Smith Chart program is wonderful. and open source maves it valuable to many people. I really like what Brent has done.

Jerry KD6JDJ

1196. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 18:06:09 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <LLudnaMny6aM0wHUnZ2dnUVZ_obinZ2d@earthlink.com>
Source record: 17420

Richard,

Thank you for posting back.

On Mon, 16 Feb 2009 23:07:37 -0800, Richard Clark <kb7qhc@comcast.net> wrote:
> On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney
><frnak@far.from.the.madding.crowd.com> wrote:
>
>>First, the need for impedance matching between an antenna and a
>>receiver.
--snip complaint about the size/cost of 60kHz h-w diploes <grin!>--

>>So any non-loop antenna I can construct will necessarily be a "short
>>wire" or "electrically small" antenna (two useful search terms).
>>But how does one go about calculating the impedance of a coat hanger
>>or an extension cord ("short piece of wire")?

> One doesn't try.

So Yoda was right: "Do, or do not. There is no 'try'." <grin!>

What has puzzled me is that I have run across designs that use
(e.g.) a JFET isolation amplifier hooked to a whip or hunk-o-wire
with the statement (or implication) that this is done to ",atch the
antenna's impedance". So I;ve been trying to figure out how to
calculate/estimate what it would be, without much success.

> The simple solution is the conventional one - you use a tuner.
>
> The tuner provides the matching (providing it has sufficient
> inductance and capacitance - you will have to investigate designs) and
> adjacent signal rejection (which could seriously de-sense your
> received signals).

I imagine that the inductance of a 6' extension cord (not plugged
in, just dangling from a planter hook <grin!>) is down in the
uH-or-less range, which would mean that most of the "tuning"
inductance would have to be supplied to achieve 60kHz. I have this
image of a big (tens of mH) inductor in series with a moderate
capacitor and my (electrically) short wire; all of the surrounding
EM sets the electroncs in the wire to dancing, but the series RC
blocks those which are wiggling "off-key" (e.g. not dancing at the
"proper" rate of 60kHz).

> Your antenna doesn't need to be very big, but it might help to have it
> very remote, if there are noise sources nearby (like motors, aquarium
> heaters, bottle style TVs, ...); and the line sufficiently choked. A

> good ground too, tying into the service ground through a separate wire
> to reduce coupling of noise from shared grounds.

Well, there's no question that I have EM in the area. I hooked my
DVM -- set to ACV -- between the radiator and my 6' extension cord;
would you believe 8-10V??!! Not much current, though: feed it
through a 1k resistor and measure the voltage across it, suddenly
it's down in the mV range. <grin!>

> ... This last may
> introduce a ground loop if your Mohican is so vintage as to have had
> relaxed design standards. A little research online reveals it is
> battery operable. You may want to fully exercise that option.

The Mohican came with two 12V power "modules" which plug into the
back of the unit. The AC power module has a transformer with a
12V-12V center-tapped secondary, which is good, but then they run
the line voltage out of the module and down into the receiver's
volume control's on/off switch. The module's 12V power and 120V
switching connections are done through a 9-pin tube socket with
mating connector/cable; remember those? <grin!>

> 73's

Thanks for the hepl.

Frank
--
There is one thing even more vital to science than intelligent
methods; and that is, the sincere desire to find out the truth,
whatever that may be. -- Charles Sanders Pierce
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1197. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 18:07:14 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <LLudnaIny6bP0wHUnZ2dnUVZ_obinZ2d@earthlink.com>
Source record: 17421

On Tue, 17 Feb 2009 13:56:38 GMT, GregS <zekfrivo@zekfrivolous.com> wrote:
> In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>, Frnak McKenney
<frnak@far.from.the.madding.crowd.com> wrote:
>>
>>Back in December I posted a question about ways to receive LF/VLF
>>radio signals.
--snip--
>> ... I'm thinking
>>about an antenna that might be a little more snesitive to LF signals
>>than the Mohican's built-in whip.

> http://www.frontiernet.net/~jadale/Loop.htm

Thanks for the link. Firefox claims I visited it recently, but I
apparently forgot to save it into my "VLF Antenna" folder. It's
there _now_! <grin!>

Frank
--
"Wisdom lies in taking everything with good humor and a grain
of salt." -- George Santayana
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1198. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 18:08:22 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <LLudnd0ny6YL0wHUnZ2dnUVZ_obinZ2d@earthlink.com>
Source record: 17422

Jeff,

Thanks for the reply.

On Tue, 17 Feb 2009 08:36:23 -0800, Jeff Liebermann <jeffl@cruzio.com> wrote:
> On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney
><frnak@far.from.the.madding.crowd.com> wrote:
>
>>So any non-loop antenna I can construct will necessarily be a "short
>>wire" or "electrically small" antenna (two useful search terms).
>>But how does one go about calculating the impedance of a coat hanger
>>or an extension cord ("short piece of wire")?
>
> Antennas can be modeled by various NEC based programs. For example:
><http://home.ict.nl/~arivoors/>
><http://www.eznec.com>
><http://www.nittany-scientific.com>
>
> Note that the common "atomic clock" gets its time from WWVB at 60KHz
> (about 5000 meters) using a tiny loop antenna. Huge antennas are not
> required for many application.
><http://www.mas-oy.com/data/MAS_docu_AR.htm>
><http://www.leapsecond.com/pages/sony-wwvb/>

That's what I keep reading; any caution you hear coming from me is
based on years spent in close association with Murphy. <grin!>

I'm a long-time devotee of the Divide'n'Conquer(tm) school of
analysis and troubleshooting. This only works well when one is
familiar with the appropriate problem-partitioning tools and has
experience using them; as it is, I'm trying to acquire the knowledge
that will let me know why things didn't work when they don't work as
expected. <grin!>

> Also, search Google for LOWFER.

Thanks. I did see the phrase, but forgot to write it down; after
some hours searching the 'Web and reading it all seems to run
together. <grin!>

Frank
--
"When the government fears the people, there is liberty.
When the people fear the government, there is tyranny."
-- Thomas Jefferson
--

Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1199. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 18:10:13 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <LLudndwny6aY0gHUnZ2dnUVZ_obinZ2d@earthlink.com>
Source record: 17423

Tim,

Thanks for the response.

On Tue, 17 Feb 2009 11:02:42 -0600, Tim Wescott <tim@seemywebsite.com> wrote:
> On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney wrote:
>
>> Back in December I posted a question about ways to receive LF/VLF radio
>> signals.
--snip--
>> First, the need for impedance matching between an antenna and a
>> receiver.
--snip--
>> So any non-loop antenna I can construct will necessarily be a "short
>> wire" or "electrically small" antenna (two useful search terms). But how
>> does one go about calculating the impedance of a coat hanger or an
>> extension cord ("short piece of wire")?
--snip--

> Why do you want a good impedance match?

Because I'm trying to snatch a signal that I have no experience with
"out of the aether", a signal that has to somehow excite an antenna,
feed into an upconverter, arrive at my receiver, and produce some
specific identifying evidence that I'm detecting the signal I hope
it will rather than (say) reporting that my neighbor is using his
electric razor. <grin!>

Each of these pieces (except perhaps the Mohican) are untested (by
me), and I don't have any tools that will help me easily distinguish
between (say) a bad upconverter, a poor antenna, or excessive noise.
Like many such situations, I'll know if I _succeed_, but if I don't
there won't be any clear indicators to help me figure out _which_
piece of the puzzle isn't fitting properly.

In short, anything that sounds like it might affect my results is of
interest to me.

> Why don't you want to use a loop antenna?

It's a question of time and effort: it looks like it will take me
less of each to test the "wire" first. If it succeeds, I'm done; if
not, I can start experimenting with loops.

Which is, of course, a variant on one of my favorite puzzles: How
do you allocate your resources when you don't yet know what you're
doin... er, "under conditions of less-than-perfect information"?

<grin!>

> At 5000m, atmospheric noise is very strong -- it would certainly
> overwhelm any thermal noise that you'd receive if you did make a 1/2 wave
> dipole (don't forget that your towers need to be at least 2500m tall to
> get close to the ideal). Getting an appropriate impedance match is
> mostly about maximizing your signal compared with your receiver's
> internal noise; the strong atmospheric noise makes this less necessary.

Yeah. All that, plus the funding. But mostly the funding. <grin!>

> This atmospheric noise also makes really efficient receiving antennas
> rather unimportant. You want a good fraction of a wavelength for
> _transmitting_, but it really doesn't make much difference for
> _receiving_.

Which may well be true, but it seems puzzling. Why would it not be
important to deliver as much of the induced electron movement to a
receiver as possible?

> The two common receiving antennas that I know of at that sort of
> frequency are tuned loops and capacitive whips.
>
> A loop can be fairly small -- my understanding (which I've never tested,
> YMMV) is that one square meter is plenty. Loops are nice because you can
> tune them, so they give you some additional selectivity on your receiver
> front end. You can impedance match the loop to your receiver, but most
> of the impedance your receiver sees will come from the wire in the loop,
> not the radiation resistance of the loop.

Talking about "radiation resistance" in a receiver antenna also
feels a bit odd.

> ... Loops are also somewhat
> directive, which helps to reduce the total static received, and if done
> correctly (google "shielded loop") they can be arranged to reject sky
> waves (I _think_ by polarization, but I'm not sure).

Yes. I'm reading up on loops so I have an alternative available in
caseXXXXXXX_when_ something goes wrong.

> A capacitive whip is just a 1m long wire whip (like a coat hanger or
> welding rod) feeding some high impedance amplifier like a JFET (or a
> toob, if you want to be picturesque). Put the active element right at
> the base of the wire for best signal. It's inherently wide band, and
> hard to keep it from being so, so if you have some local interference
> it'll kill your signal

This is the direction I'm starting in.

> ... (my first try at these didn't work in my shop
> because of a nearby electric fence transformer, but it worked fine at the
> end-user's more-urban location).

Gack! I don't suppose it used an old Model-T spark coil, or a
buzzer-and transformer equivalent? I remember in my youth (Dirt(tm)
had been invented, but it was still considered cutting-edge
technology <grin!>) just how badly one could mess up AM BCB
reception with a string of those Christmas tree bulbs with built-in
bimetallic-switch flashers.

Frank
--
You'll never learn to do anything well until you're willing to
accept that you'll do it badly at first. --Anonymous
--
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1200. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 18:11:37 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <LLudnd8ny6bE0gHUnZ2dnUVZ_obinZ2d@earthlink.com>
Source record: 17424

Hi, Tim. <grin!>

On Wed, 18 Feb 2009 02:03:44 -0600, Tim Wescott <tim@seemywebsite.com> wrote:
> On Mon, 16 Feb 2009 22:22:20 -0600, Frnak McKenney wrote:
>
>> Back in December I posted a question about ways to receive LF/VLF radio
>> signals.
--snip--
>> First, the need for impedance matching between an antenna and a
>> receiver.
--snip--
> This may be a duplicate answer: I _know_ I wrote one, but it seems
> to have fallen into the bit-bucket.

Received and replied to, but your rephrasing is also appreciated.

> In short:
>
> For receiving you don't need to couple well enough to the ether to
> overwhelm the receiver's noise with the Faintest Possible Signal. You
> only need to overwhelm the receiver's noise with atmospheric noise.
> Given the amount of atmospheric noise at 60kHz, that ain't hard.
>
> When you get to the point where you hook up the antenna to the rig and
> you heard static over the noise of the receiver, you know your antenna is
> good enough.

Well, I'm getting static with the built-in whip. On the other hand,
I haven't hooked up the downconverter yet.

> (Transmitting is a different story, but try transmitting at 60kHz and
> after the FCC gets done with you antenna size will be the least of your
> worries.)

Yeah, but the picture of all the local "Atomic Clocks" changing at
once _is_ rather appealing. <grin!>

> Whazza matta widda loop? They work fine, they provide some welcome
> selectivity (well, at 60kHz one may provide _too much_ selectivity),
> they're easy to construct, they're reputed to reject sky waves -- what
> more could you want?

Laziness? A Scot's instinct to thrift? <grin!>

> If you don't want to use a loop, the last time I did anything at MF a
> short (1m) whip going to a JFET source follower was considered the bee's
> knees to solve this sort of problem. The whip will pick up atmospheric

> noise just as well as it'll pick up the intended signal, the JFET will
> impedance match from that low-capacity whip to your receiver input
> (I assume, I don't know what the nominal input impedance of your
> rig is), and all will be well.

Well, from my point of view you just justified the effort you put into this second post; you got me digging into the Mohinca's manual which lists sensitivity (10uV) and Selectivity ("3 kc wide at 6 db down"[sic]), but no specific antenna impedance. According to the _schematic_, the two screw-lug connections on the rear of the chassis are "HI-Z" and "GND" (apparently the Heathkit designers thought of a "short wire" antenna as high impedance as well). The HI-Z line runs through a "12uuF"[sic] to the whip, and then both are connected through a 22pF capacitor to the Main Tuning and Antenna Trim capacitors.

Fortunately the LF upconverter comes (IIRC) with 1MHz and 4MHz crystals, so I won't be trying to force a 60kHz signal past those itty-bitty little capacitors. <grin!>

Frank
--
Ninety-Ninety Rule of Project Scheduling:
The first ninety percent of the task takes ninety percent of the time, and the last ten percent takes the other ninety percent.
--
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Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1201. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 18:12:15 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <LLudnd4ny6bi0gHUnZ2dnUVZ_obinZ2d@earthlink.com>
Source record: 17425

Joe,

Thanks for replying. I wan't entirely certain which of the four I
should respond to, but I'm assuming this was the vinfal version.

On Wed, 18 Feb 2009 06:11:29 -0800 (PST), J.A. Legris <jalegris@sympatico.ca> wrote:
> On Feb 16, 11:22ï¿½pm, Frnak McKenney
><fr...@far.from.the.madding.crowd.com> wrote:
>> Back in December I posted a question about ways to receive LF/VLF
>> radio signals.
--snip--
>> So any non-loop antenna I can construct will necessarily be a "short
>> wire" or "electrically small" antenna (two useful search terms).
>> But how does one go about calculating the impedance of a coat hanger
>> or an extension cord ("short piece of wire")?
--snip--
>> My other question has to do with how to interpret signal strength.
--snip--
>> a
>> signal of at least 100uV/m. ï¿½Does this mean that I should expect to
>> see 100uV from any one-meter hunk of wire strung out horizontally in
>> the optimum direction? Or is there something more subtle going on I
>> need to be aware of?
>
> A field strength measured in 100 uV/meter is just that, but the
> problem getting the energy out of the air and into a receiver.

Yes. It's not like I can just hang a bucket out the window and
bring it back full of electrons wiggling at just the right speed.
<grin!>

> A short linear antenna has a very low radiation resistance (<< 1 ohm)
> which is a poor match to a practical transmission line, whose
> characteristic impedance is typically 1000's of times larger. The
> radiation resistance of an antenna is the component of its complex
> impedance that is associated with the power captured. Balanis (Antenna
> Theory Analysis & Design (1997), p.137) gives a formula for the
> radiation resistance of a short dipole:
>
> R = 80 * pi^2 * (W/L)^2 ohms
>
> where W is the length of the antenna and L is the wavelength. The
> value for a monopole is roughly half as much again.

Um... 1.5 * 80 * (%pi^2) * (1/5000)^2 is... 471 micro-Ohms? That 's
pretty low; why would anyone match that to a JFET input?

> Why do you request a non-loop antenna?

I started there, ran into some questions, and wanted to clear up the confusion in my own head before moving any further. It's not as though I'm prejudiced against them; heck, some of my best friends have radios with loop antennae. <grin!>

> ... A small circular loop antenna
> also has a low radiation resistance but it can be increased by adding
> turns. Balanis (p.209) gives a formula for the radiation resistance of
> a small loop:
>
> R = 20 * pi^2 * (C/L)^4 * N^2 ohms
>
> where C is the circumference of the loop, L is the wavelength and N is
> the number of turns.
>
> Better still is to use a ferrite loop antenna. You may be able to get
> one out of an old AM radio and adapt it to your receiver. The
> resulting formula is identical to the above, multiplied by the
> relative permeability of the core, u (SQUARED !), so you can use a
> very small-diameter loop and/or fewer turns, getting improved
> selectivity and sensitivity (i.e. high Q) in a tuned circuit:
>
> R = 20 * pi^2 * (C/L)^4 * N^2 * u^2 ohms

Oddly enough, I now have ten old transistor radios that I picked up at FrostFest a few weekends back for $1 each. I was looking for ferrite and wide-ratio tuning capacitors, as they seem to be in scarce supply these days. I don't know where today's kids are getting their crystal radio parts from these days; it certainly isn't Radio Shack.

Frank
--
"A man should never be ashamed to own that he has been in the wrong, which is but saying, in other words, that he is wiser today than yesterday." -- Jonathan Swift
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1202. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 19:37:07 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <6a0c814a-ede9-4424-9757-914d23c63d61@r38g2000vbi.googlegroups.com>
Source record: 17426
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 18, 10:58 am, mopeyzakw...@yahoo.com wrote:
> On Feb 17, 7:00 pm, k...@hotmail.com wrote:
>
> > On Tue, 17 Feb 2009 15:19:26 -0800 (PST), mopeyzakw...@yahoo.com
> > wrote:
>
> > >On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:
> > >> Conviction 1
>
> > get a life stalker or at leasts end this somewhere it might have an
> > effect
>
> It has an effect, it upsets fags like you...now, go contract bubonic
> plague or anthrax or something.

nt upset realy just tried of reading the same old crap

but tell me why would a fag stalk women?

1203. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 20:12:53 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <7jkop41m8vtgdde6mhebadpmc4c6eglbfh@4ax.com>
Source record: 17427

On Wed, 18 Feb 2009 12:06:09 -0600, Frnak McKenney
<frnak@far.from.the.madding.crowd.com> wrote:

>What has puzzled me is that I have run across designs that use
>(e.g.) a JFET isolation amplifier hooked to a whip or hunk-o-wire
>with the statement (or implication) that this is done to ",atch the
>antenna's impedance".

Hi Frank,

Matching provokes heated debates that in times past ran to 600+
postings - few knew what they were arguing (but enjoyed arguing
nonetheless) and little was offered.

A JFET at these frequencies does satisfy the naive requirements of
"matching," but that giving you a reception solution doesn't always
follow.

> So I;ve been trying to figure out how to
>calculate/estimate what it would be, without much success.

The Mohican schematic says quite planely Hi-Z input. This is borne
out by the antenna connection feeding a tank circuit in the front end
where the input stage is fed from a low tap into a 470 Ohm resistor.
This would be your JFET feed Z, but you could choose any suitable
close value. As for the input Z, the JFET input resistance is
perfectly capable of mismatching horribly high - although this is not
about optimal power transfer at these impedance levels. What is at
risk, is the JFET input capacitance which could present a low Z at
some frequency. Naturally, you select your JFET against this to
optimize. It will be in some ratio to the antenna capacitance (if it
is bare, short wire) and that will establish the proportion of signal
that gets in by divider action.

>I imagine that the inductance of a 6' extension cord (not plugged
>in, just dangling from a planter hook <grin!>) is down in the
>uH-or-less range, which would mean that most of the "tuning"
>inductance would have to be supplied to achieve 60kHz. I have this
>image of a big (tens of mH) inductor in series with a moderate
>capacitor and my (electrically) short wire;

That is one way, other ways work too and are electrically equivalent.
Loops help tune and match by a slightly more elaborate means, but
still fairly holds to simple requirements.

You don't need wire to build an inductor. At these frequencies you
can use a capacitor in a Gyrator design.

>all of the surrounding
>EM sets the electroncs in the wire to dancing, but the series RC
>blocks those which are wiggling "off-key" (e.g. not dancing at the
>"proper" rate of 60kHz).

And this responds to the filtering capacity (selection AND rejection).
This is called "Q" which also serves the yeoman's task of matching as
well (observe the input tank design for the conventional bands).

>Well, there's no question that I have EM in the area. I hooked my
>DVM -- set to ACV -- between the radiator and my 6' extension cord;
>would you believe 8-10V??!! Not much current, though: feed it
>through a 1k resistor and measure the voltage across it, suddenly
>it's down in the mV range. <grin!>

Still a lot of power. However, those are probably 60Hz fields because
DVMs rarely have the AC BW to go much above 1Khz.

>The Mohican came with two 12V power "modules" which plug into the
>back of the unit. The AC power module has a transformer with a
>12V-12V center-tapped secondary, which is good, but then they run
>the line voltage out of the module and down into the receiver's
>volume control's on/off switch. The module's 12V power and 120V
>switching connections are done through a 9-pin tube socket with
>mating connector/cable; remember those? <grin!>

Remembering isn't difficult. I broke into electronics through
TV/Radio repair during high school. If I could fix it, I got paid.

Anyway, power connections from that era brought "ground" notoriously
close to lethal if you plugged the radio into the wall wrong. Some
used AC noise reduction circuit design that could almost guarantee
your chassis was floating at 70V if things went wrong.

I had an ET striker (Navy parlance for a student electronics tech) who
connected a TV antenna input to ground, and the insulation melted off
of the wire in a heartbeat. This was in the day when we called TV
power line interlock replacements "suicide adapters."

73's
Richard Clark, KB7QHC

1204. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 20:57:00 UTC
From: mzenier@eskimo.com
Message-ID: <gnk27701qgv@enews2.newsguy.com>
Source record: 17436
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>,
Frnak McKenney <frnak@far.from.the.madding.crowd.com> wrote:

<Big Snip.>

Go find Radio-Electronics magazine for 1983, and read the five(?)
articles by Ralph Burhans about receiving VLF.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

1205. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-18 21:19:12 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <d38b3f3d-18ea-4b01-b5cc-08221782fe60@c12g2000yqj.googlegroups.com>
Source record: 17428

On Feb 18, 3:12 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Wed, 18 Feb 2009 12:06:09 -0600, Frnak McKenney
>
> <fr...@far.from.the.madding.crowd.com> wrote:
> >What has puzzled me is that I have run across designs that use
> >(e.g.) a JFET isolation amplifier hooked to a whip or hunk-o-wire
> >with the statement (or implication) that this is done to ",atch the
> >antenna's impedance".
>
> Hi Frank,
>
> Matching provokes heated debates that in times past ran to 600+
> postings - few knew what they were arguing (but enjoyed arguing
> nonetheless) and little was offered.
>
> A JFET at these frequencies does satisfy the naive requirements of
> "matching," but that giving you a reception solution doesn't always
> follow.
>
> > So I;ve been trying to figure out how to
> >calculate/estimate what it would be, without much success.
>
> The Mohican schematic says quite planely Hi-Z input. This is borne
> out by the antenna connection feeding a tank circuit in the front end
> where the input stage is fed from a low tap into a 470 Ohm resistor.
> This would be your JFET feed Z, but you could choose any suitable
> close value. As for the input Z, the JFET input resistance is
> perfectly capable of mismatching horribly high - although this is not
> about optimal power transfer at these impedance levels. What is at
> risk, is the JFET input capacitance which could present a low Z at
> some frequency. Naturally, you select your JFET against this to
> optimize. It will be in some ratio to the antenna capacitance (if it
> is bare, short wire) and that will establish the proportion of signal
> that gets in by divider action.
>
> >I imagine that the inductance of a 6' extension cord (not plugged
> >in, just dangling from a planter hook <grin!>) is down in the
> >uH-or-less range, which would mean that most of the "tuning"
> >inductance would have to be supplied to achieve 60kHz. I have this
> >image of a big (tens of mH) inductor in series with a moderate
> >capacitor and my (electrically) short wire;
>
> That is one way, other ways work too and are electrically equivalent.
> Loops help tune and match by a slightly more elaborate means, but

> still fairly holds to simple requirements.
>
> You don't need wire to build an inductor. At these frequencies you
> can use a capacitor in a Gyrator design.
>
> >all of the surrounding
> >EM sets the electroncs in the wire to dancing, but the series RC
> >blocks those which are wiggling "off-key" (e.g. not dancing at the
> >"proper" rate of 60kHz).
>
> And this responds to the filtering capacity (selection AND rejection).
> This is called "Q" which also serves the yeoman's task of matching as
> well (observe the input tank design for the conventional bands).
>
> >Well, there's no question that I have EM in the area. I hooked my
> >DVM -- set to ACV -- between the radiator and my 6' extension cord;
> >would you believe 8-10V??!! Not much current, though: feed it
> >through a 1k resistor and measure the voltage across it, suddenly
> >it's down in the mV range. <grin!>
>
> Still a lot of power. However, those are probably 60Hz fields because
> DVMs rarely have the AC BW to go much above 1Khz.
>
> >The Mohican came with two 12V power "modules" which plug into the
> >back of the unit. The AC power module has a transformer with a
> >12V-12V center-tapped secondary, which is good, but then they run
> >the line voltage out of the module and down into the receiver's
> >volume control's on/off switch. The module's 12V power and 120V
> >switching connections are done through a 9-pin tube socket with
> >mating connector/cable; remember those? <grin!>
>
> Remembering isn't difficult. I broke into electronics through
> TV/Radio repair during high school. If I could fix it, I got paid.
>
> Anyway, power connections from that era brought "ground" notoriously
> close to lethal if you plugged the radio into the wall wrong. Some
> used AC noise reduction circuit design that could almost guarantee
> your chassis was floating at 70V if things went wrong.
>
> I had an ET striker (Navy parlance for a student electronics tech) who
> connected a TV antenna input to ground, and the insulation melted off
> of the wire in a heartbeat. This was in the day when we called TV
> power line interlock replacements "suicide adapters."
>
> 73's
> Richard Clark, KB7QHC

Its not uncommon to have a high impedance input into a preamp. This is
the one-size- fits-all
approach. While its not good engineering for the purist it works quite

well to make a casual user happy and may be the practical solution for
even the professional installation..
Ive had some experience limited working with VLF and it always seemed
the thing that made the difference between a good and bad VLF
antenna was the quality of the ground network

Jimmie

1206. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 01:17:25 UTC
From: rma <rmasma@gmail.com>
Message-ID: <716e95a8-2a2e-44b1-9bb4-9967caba7b40@k36g2000pri.googlegroups.com>
Source record: 17429

Thank You!

1207. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 01:25:04 UTC
From: bulegoge@columbus.rr.com
Message-ID: <29414120-273b-4233-ab53-58960f60e855@i20g2000prf.googlegroups.com>
Source record: 17430

On Feb 18, 11:43 am, "Jerry" <jerrymar...@verizon.net> wrote:
> "ml" <m...@di.net> wrote in message
>
> news:m-0CCAC8.06200118022009@news.optonline.net...
>
>
>
>
>
> > In article
> > <85b9a2a9-652d-4871-a97b-c8e5b7edd...@m15g2000vbp.googlegroups.com>,
> > buleg...@columbus.rr.com wrote:
>
> >> Hi,
>
> >> I have created a Smith Chart Tutorial located here:
>
> >>http://www.fourier-series.com/rf-concepts/smithchart.html
>
> >> It is comprised of flash programs with embedded audio. It allows you
> >> to learn the smith chart through the interactive nature of the flash
> >> program.
>
> >> I have completed three flash programs on this subject, and intend to
> >> write two more. The tutorial explains the smith chart, allows for
> >> capacitive/inductive matching and introduces how a transmision line
> >> affects the reflection coefficient.
>
> >> Good Luck with this
>
> >> Brent
>
> > this was really nice   I am surprized that NOBODY left any comments
>
> > thanks
>
>   Hi ML
>
>   I had sent Brent an E-mail as soon as I read Brent's link.   That Smith
> Chart program is wonderful. and open source maves it valuable to many
> people.   I really like what Brent has done.
>
>   Jerry   KD6JDJ- Hide quoted text -
>

> - Show quoted text -

Everyone:

Thanks for the encouraging feedback. I hope to have the remaider of
the tutorial done in a couple of weeks.

Jerry,

Thx for the email. BTW - it is freely available, but I would not call
it open source.

1208. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 02:08:05 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <9a3nl.317$Ez6.206@nwrddc02.gnilink.net>
Source record: 17431

<bulegoge@columbus.rr.com> wrote in message
news:29414120-273b-4233-ab53-58960f60e855@i20g2000prf.googlegroups.com...
On Feb 18, 11:43 am, "Jerry" <jerrymar...@verizon.net> wrote:
> "ml" <m...@di.net> wrote in message
>
> news:m-0CCAC8.06200118022009@news.optonline.net...
>
>
>
>
>
> > In article
> > <85b9a2a9-652d-4871-a97b-c8e5b7edd...@m15g2000vbp.googlegroups.com>,
> > buleg...@columbus.rr.com wrote:
>
> >> Hi,
>
> >> I have created a Smith Chart Tutorial located here:
>
> >>http://www.fourier-series.com/rf-concepts/smithchart.html
>
> >> It is comprised of flash programs with embedded audio. It allows you
> >> to learn the smith chart through the interactive nature of the flash
> >> program.
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> >> I have completed three flash programs on this subject, and intend to
> >> write two more. The tutorial explains the smith chart, allows for
> >> capacitive/inductive matching and introduces how a transmision line
> >> affects the reflection coefficient.
>
> >> Good Luck with this
>
> >> Brent
>
> > this was really nice I am surprized that NOBODY left any comments
>
> > thanks
>
> Hi ML
>
> I had sent Brent an E-mail as soon as I read Brent's link. That Smith
> Chart program is wonderful. and open source maves it valuable to many
> people. I really like what Brent has done.
>

> Jerry KD6JDJ- Hide quoted text -
>
> - Show quoted text -

Everyone:

Thanks for the encouraging feedback. I hope to have the remaider of
the tutorial done in a couple of weeks.

Jerry,

Thx for the email. BTW - it is freely available, but I would not call
it open source.

Hi Brent

Stupid me, I assumed they were the same. I will look into the proper
definition.

Jerry KD6JDJ

1209. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 02:12:04 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <Ud3nl.319$Ez6.194@nwrddc02.gnilink.net>
Source record: 17432

"Jerry" <jerrymartes@verizon.net> wrote in message
news:9a3nl.317$Ez6.206@nwrddc02.gnilink.net...
>
> <bulegoge@columbus.rr.com> wrote in message
> news:29414120-273b-4233-ab53-58960f60e855@i20g2000prf.googlegroups.com...
> On Feb 18, 11:43 am, "Jerry" <jerrymar...@verizon.net> wrote:
>> "ml" <m...@di.net> wrote in message
>>
>> news:m-0CCAC8.06200118022009@news.optonline.net...
>>
>>
>>
>>
>>
>> > In article
>> > <85b9a2a9-652d-4871-a97b-c8e5b7edd...@m15g2000vbp.googlegroups.com>,
>> > buleg...@columbus.rr.com wrote:
>>
>> >> Hi,
>>
>> >> I have created a Smith Chart Tutorial located here:
>>
>> >>http://www.fourier-series.com/rf-concepts/smithchart.html
>>
>> >> It is comprised of flash programs with embedded audio. It allows you
>> >> to learn the smith chart through the interactive nature of the flash
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>>
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>> >> write two more. The tutorial explains the smith chart, allows for
>> >> capacitive/inductive matching and introduces how a transmision line
>> >> affects the reflection coefficient.
>>
>> >> Good Luck with this
>>
>> >> Brent
>>
>> > this was really nice I am surprized that NOBODY left any comments
>>
>> > thanks
>>
>> Hi ML
>>
>> I had sent Brent an E-mail as soon as I read Brent's link. That Smith

>> Chart program is wonderful. and open source maves it valuable to many
>> people. I really like what Brent has done.
>>
>> Jerry KD6JDJ- Hide quoted text -
>>
>> - Show quoted text -
>
>
> Everyone:
>
> Thanks for the encouraging feedback. I hope to have the remaider of
> the tutorial done in a couple of weeks.
>
>
> Jerry,
>
> Thx for the email. BTW - it is freely available, but I would not call
> it open source.
>
> Hi Brent
>
> Stupid me, I assumed they were the same. I will look into the proper
> definition.
>
> Jerry KD6JDJ

To correct myself -- It looks like Open Source implies the program is
open to others to edit thru collaboration. Thanks for making me think.

Jerry KD6JDJ

1210. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 08:52:58 UTC
From: nm5k@wt.net
Message-ID: <98c9db70-c24f-445f-af4e-f8817c66f505@r36g2000prf.googlegroups.com>
Source record: 17433

On Feb 13, 1:00 pm, mat...@netcommander.com wrote:
> I have a Rohn 30 foot telescoping mast that I'd like to use as the
> vertical element of a 40 meter ground plane. My idea is to add 3 feet
> of pipe to the top of it to make it the required 33 ft. long.
> I want to elevate the bottom of it about 8 feet of the ground and run
> a couple of quarter wave wire radials out from it. This way they can
> be walked under.
> My questions are these...
> The ground slopes upward in one direction that I need to run a radial.
> The radial will have to have an upward sweep in order to maintain the
> clearance needed to walk under it. Will this be an issue?
>
> The mast will be attached to my house to help support it. I can
> insulate it from the mounting bracket with no problem. What I'm
> wondering is with the fact of the mast being right up against the
> house and not in the clear, how much will the performance of the
> antenna be affected?
>
> I have come up with this idea of a groundplane because I don't want to
> deal with burying a whole bunch of radials in the ground. Think it
> will work?
> Tnx for any advice and suggestions and 73,
> Michael, W4HIJ

I don't see how you will be able to elevate the base of that
fairly heavy mast to 8 feet, and still be able to raise and
lower it.
And.. it will need guy wires to keep from falling over.
Myself, I would use the 30 ft mast as the support and
build a lightweight aluminum radiator.
I made one from a junk 5/8 wave CB antenna.
The base was already fairly heavy duty, and I added
internal tubing to make the lower part stronger, and
adding progressively thinner tubing to get it to 32-33 ft.
The very top of the whip was a thin automotive whip.
The antenna itself is totally self supporting, and is
much easier to deal with than a heavy mast.
One person can hold it upright very easily.
But it would also let you have the base of the antenna
at 30 ft instead of 8, which would greatly reduce ground
loss vs the lower antenna.
Eight feet off the ground is not high enough on 40m to
greatly reduce the amount of radials needed vs a
ground mount. That's only 1/16 of a wave off the

ground.
With only two radials at 8 ft off the ground, your
ground losses are still going to be nearly as high
as if the antenna was on the ground.
But at 30 ft, which is almost a quarter wave up,
two radials would give you fairly decent performance.
I ran mine at 36 ft off the ground with four radials.
Was about equal to a ground mount with 60 radials
or so. Overall, the antenna kicked butt for DX
vs dipoles at 36 ft. :)
If you use two radials at eight feet up, I'm guessing
that would be appx equal to a ground mount with
4 radials or so.. Won't be a barn burner by any means..
It will "work".. But it won't be near as good as the
one I ran, unless you greatly increase the number
of radials for that low height above ground, or
get it higher up. With the telescoping mast, I was
able to try it at lower heights with the same four
radials. It was not near as good at say 16 ft up as it
was at 36 ft. Not even close really..

1211. nice shopping plaza,get big discount for cool fashions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 12:04:25 UTC
From: "www.aaatrade.us" <fjhjl19@163.com>
Message-ID: <02ff72e4-513a-406b-9ccc-bd5ca8329a16@z28g2000prd.googlegroups.com>
Source record: 17434

hi,friend,we got a lot of cool fashions on:
www.aaatrade.us

Low price and PAYPL accept,get your packets in 7 days after you buy.

sneaker,Boot,Clothes,Appreal,bags,Jersyes,and so on

please have a look:www.aaatrade.us

1212. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 14:35:50 UTC
From: Mike Luther <mike.luther@ziplog.com>
Message-ID: <499d6e3a$0$5477$bbae4d71@news.suddenlink.net>
Source record: 17435

Suggestion.

mat_62@netcommander.com wrote:

> I have a Rohn 30 foot telescoping mast that I'd like to use as the
> vertical element of a 40 meter ground plane. My idea is to add 3 feet
> of pipe to the top of it to make it the required 33 ft. long.
> I want to elevate the bottom of it about 8 feet of the ground and run
> a couple of quarter wave wire radials out from it. This way they can
> be walked under.

I've been using elevated quarter wavelength verticals in 4 square vertical array operations for years like this. But there is a way to do this which is FAR safer for you relative to lightning strike issues as well.

In my case, the vertical element is always a solid metal pole/tower which goes all the way down to and into the ground at the base. This works even without the elevated model with elevated radials as well.

Feed the vertical element at the feed point height, ground level, 8 feet up for you - whatever, with a gamma match section attached directly to your coax feed line. I make my gamma match sections with the little six inch TV feed line holders through which I thread copper wire in the little brown insulators that are out away from the pole by their length. You tie the feed point up at the top of a run of several of these. Then at the bottom at the feed point for the coax, you bond your coax braid to the actual tower element.

You run the hot tip wire for it to, at first, a variable capacitor which you adjust for the desired flat SWR match for the feed. Of course if you are going to use that variable permanently for the required capacitor in the gamma match section, it will need to be decent enough spacing for whatever power level you intend to use with the array.

But there is another trick! You can use a small receiving spaced variable capacitor to do the experimentation for the match with one of these little antenna analyzer units, Or .. even just and SWR meter in a crude sense. Then when you get the nice perfect flat match with the variable, you can figure out the capacitance needed for how many feet of your feed coax that would be! Usually it is only a few feet or so on 40 meters for RG-8 for example. You cut a piece of it that will have MORE than the required capacitance. You tie the braid to your hot tip point feed wire from the feeder coax. You then tie the tip point of the little piece of feed coax that is being used as a capacitor in this case to your gamma match input wire tip.

At that point, you take a cutter, and start snipping off little bits of the short coax piece you use for the capacitor! When the SWR comes down to the intended bottom nicest value, you simply strip a little more of the braid off

the free end of the capacitor coax chunk, leaving the insulation and center wire free in the air for an inch or so. And tape over it with tape to protect the end from the weather if you like.

Presto! Absolutely flat SWR match to your vertical element that will stay out there in the weather for years with no trouble. Since the mast is always hard flat grounded to the earth, in concrete for my towers, or with a few little six foot radials around the ground point for poles, to distribute the lightning strike into the surface, POOF no lightning damage to the place!

Sure .. you bring the feed coax down to ground level. You go under the surface to the shack, with a gas discharge protector plan on it as normal.

My 80 meter 4 square built like this .. four gamma match sections, one on each element, gets hit directly at my QTH at least once a year here. Absolutely no damage to the shack stuff from this ever for almost two decades of this now. And it is connected and up 24X7 just like the broadcast tower stuff.

W5WQN

--

--> Sleep well; OS2's still awake! ;)

Mike Luther

1213. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 16:50:32 UTC
From: Jim Thompson <To-Email-Use-The-Envelope-Icon@My-Web-Site.com>
Message-ID: <rd3rp4d0c21t99l3q1vcrldnue5p5ro9n1@4ax.com>
Source record: 17437
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

On Wed, 18 Feb 2009 20:57:00 GMT, mzenier@eskimo.com (Mark Zenier)
wrote:

>In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>,
>Frnak McKenney <frnak@far.from.the.madding.crowd.com> wrote:
>
><Big Snip.>
>
>Go find Radio-Electronics magazine for 1983, and read the five(?)
>articles by Ralph Burhans about receiving VLF.
>
>Mark Zenier mzenier@eskimo.com
>Googleproofaddress(account:mzenier provider:eskimo domain:com)

Is that set of articles available on the web? That'd be an
interesting read.

...Jim Thompson
--
James E.Thompson, P.E.	mens
Analog Innovations, Inc.	et
Analog/Mixed-Signal ASIC's and Discrete Systems	manus
Phoenix, Arizona 85048 Skype: Contacts Only	
Voice:(480)460-2350 Fax: Available upon request	Brass Rat
E-mail Icon at http://www.analog-innovations.com	1962

I love to cook with wine Sometimes I even put it in the food

1214. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 17:14:12 UTC
From: nm5k@wt.net
Message-ID: <feada4b7-6366-48bc-8993-144abbdc7873@v18g2000pro.googlegroups.com>
Source record: 17438

On Feb 19, 8:35 am, Mike Luther <mike.lut...@ziplog.com> wrote:

>
> My 80 meter 4 square built like this .. four gamma match sections, one on each
> element, gets hit directly at my QTH at least once a year here. Absolutely no
> damage to the shack stuff from this ever for almost two decades of this now.
> And it is connected and up 24X7 just like the broadcast tower stuff.
>
> W5WQN
>
> --
>
> --> Sleep well; OS2's still awake! ;)
>
> Mike Luther

That's why all my antenna masts are metal and run all the
way down to the ground.
I don't know how many strikes I've had, but I know I've had
two of them with me sitting in this chair, which is about
15-20 feet away from the mast.
I've never had any damage. It's kind of weird..I don't
think I ever took a direct strike when I had the 40m GP
going. And it was nearly 70 ft up to the tip. Both strikes
that I saw were just hitting the 36 ft mast, which was
supporting wire dipoles at the time.

1215. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 20:12:06 UTC
From: mzenier@eskimo.com
Message-ID: <gnmp5b0rfb@enews5.newsguy.com>
Source record: 17446
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

In article <rd3rp4d0c21t99l3q1vcrldnue5p5ro9n1@4ax.com>,
Jim Thompson <To-Email-Use-The-Envelope-Icon@My-Web-Site.com> wrote:
>On Wed, 18 Feb 2009 20:57:00 GMT, mzenier@eskimo.com (Mark Zenier)
>wrote:
>
>>In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>,
>>Frnak McKenney <frnak@far.from.the.madding.crowd.com> wrote:
>>
>><Big Snip.>
>>
>>Go find Radio-Electronics magazine for 1983, and read the five(?)
>>articles by Ralph Burhans about receiving VLF.
>>
>>Mark Zenier mzenier@eskimo.com
>>Googleproofaddress(account:mzenier provider:eskimo domain:com)
>
>Is that set of articles available on the web? That'd be an
>interesting read.
>

Some of them. I remember on of them coming up in a discussion
in one of the radio newsgroups, and someone posted a URL.

They are practical hobby stuff mostly. A VLF converter, how to match
longwire antenna, an active whip antenna, a balanced loopstick. The most
useful non-hobby one was how to derive time/frequency references from
Loran-C.

I'm reluctant to go to the effort because this was back in the era when
R-E was paranoid about photocopying, with colored backgrounds for the
figures and charts, and it would take a day or two to photoshop the
scans so that they are of decent quality. Also, they were, near the end,
one of the more Internet savvy publishers and there may still be somebody
around to enforce their IP.

Mark Zenier mzenier@eskimo.com
Googleproofaddress(account:mzenier provider:eskimo domain:com)

1216. FA: Omega Noise Bridge - - Eldico Antennascope

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 21:18:23 UTC
From: Norm VE3CZI <ve3czi@arrl.net>
Message-ID: <C0knl.16867$D9.9268@read2.cgocable.net>
Source record: 17439
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.swap

Omega Noise Bridge
http://cgi.ebay.ca/ws/eBayISAPI.dll?ViewItem&ssPageName=STRK:MESELX:IT&item=320341958440

Eldico Antique Antennascope
http://cgi.ebay.ca/ANTENNASCOPE-MODEL-AT-1-MFR-Eldico_W0QQitemZ320342097215QQcmdZViewItemQQptZVintage_Electronics_R2?hash=item320342097215&_trksid=p3911.c0.m14&_trkparms=72%3A1215%7C66%3A2%7C65%3A12%7C39%3A1%7C240%3A1318

Tnx for looking....Norm VE3CZI

1217. Robert Louis Trendel, KD8IMG...his record as a stalker of women...convicted stalker's record

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-19 23:56:39 UTC
From: mopeyzakween@yahoo.com
Message-ID: <2b6ebc49-bae3-484c-a38f-86780bece9f7@e3g2000vbe.googlegroups.com>
Source record: 17440
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

You did it, bobbie, now sit and suck on it.....

Recently visited [clear]
alt.free.newsservers
alt.ham-radio
alt.ham-radio.mods
alt.ham-radio.vhf-uhf
alt.home.lawn.garden
alt.sports.f...-bengals
alt.sports.f...e-browns
alt.sports.f...steelers
alt.usenet.kooks
rec.ponds
rec.radio.am....antenna
rec.radio.am...quipment
rec.radio.amateur.policy
rec.radio.cb
soc.men

Groups Alerts
Create a group...
mopeyzakween@yahoo.com | My Groups | Favorites | Profile | Help | My Account | Sign out

rec.radio.cb

Discussions
+ new post
About this group
Subscribe to this group
This is a Usenet group - learn more

Complete info on the faggy convicted stalker of women, Robert Trendel, KD8IMG Options
There are currently too many topics in this group that display first. To make this topic appear first, remove this option from another topic.
There was an error processing your request. Please try again.
Standard view View as tree
Proportional text Fixed text

9 messages - Collapse all

The group you are posting to is a Usenet group. Messages posted to this group will make your email address visible to anyone on the Internet.
Your reply message has not been sent.
Your post was successful
Cancel

Send Discard

From:
To:
Cc:
Followup To:
Add Cc | Add Followup-to | Edit Subject

Subject:

Validation: For verification purposes please type the characters you see in the picture below or the numbers you hear by clicking the accessibility icon.

Send Discard

mopeyzakw...@yahoo.com View profile
More options Feb 17, 8:33 am

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy, rec.radio.amateur.antenna
From: mopeyzakw...@yahoo.com
Date: Tue, 17 Feb 2009 05:33:58 -0800 (PST)
Local: Tues, Feb 17 2009 8:33 am
Subject: Complete info on the faggy convicted stalker of women, Robert Trendel, KD8IMG
Reply | Reply to author | Forward | Print | Individual message | Show original | Remove | Report this message | Find messages by this author
Conviction 1

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO TIME: 1:16:32 PM
DATE: 2/13/2009

CASE: G -4801 -CI -200802161-000
TITLE: LEE VS TRENDEL
JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
FILING DATE: 2/20/2008 CASE TYPE: CPO STALK CIV PROTECT ORD - MISC

MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

Party Counsel
Plaintiff 1:
LEE KATHLEEN

Defendant 1:
TRENDEL ROBERT

Alias(es)
TRENDEL ROBERT

DATE SEQ EVENT

2/20/2008 1 Title : OPN:CPO PETITION FILED
PARTY : P1 - LEE KATHLEEN

2/21/2008 1 Title : ORD:REQ'T EXT TO PLD GRANTED
EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
HEARING TO FEB. 29, 2008 AT 1 P.M.
PARTY : -

2/21/2008 3 Title : MIS:COURTROOM CASE NOTES
SENT EX PARTE ORDER ORDINARY MAIL TO RESPONDENT, ROBERT
TRENDEL.
PARTY : -

2/21/2008 4 Title : EVT:CPO SENT SHERIFF FOR SERVE
COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
ROBERT L TRENDEL
PARTY : D1 - TRENDEL ROBERT

2/21/2008 5 Title : EVT:HAND DELIV SERVE BY BAILIF
NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
PARTY : P1 - LEE KATHLEEN

2/21/2008 6 Title : SRV:COPIES MAILED
COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND
FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

2/21/2008 7 Title : EVT:EX PARTE CPO FILED/JOUR
EJOURNALIZED 2-27-08
PARTY : P1 - LEE KATHLEEN

2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
THAT THERE WAS NO RESPONSE TO NOTES LEFT
PARTY : D1 - TRENDEL ROBERT

2/29/2008 1 Title : ORD:ORDER
Court reporter Kim Kohls ordered. The matter was called for a full hearing on February 29, 2008, on a request for a Civil Protection Stalking Order filed on February 20, 2008. Petitioner KATHLEEN LEE was present. Respondent ROBERT TRENDEL was present with his attorney DAVID F. WILEY. At the request of Respondent, the full hearing is continued until March 13, 2008 at 1:00 p.m. IT IS THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing scheduled for February 29, 2008, is ORDERED continued until March 13, 2008 at 1:00 p.m.
IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking Protection Order granted on February 21, 2008, shall remain in full force and effect until March 13, 2008.

See Order.
PARTY : -

2/29/2008 2 Title : HRG:HEARING SET
FULL HEARING 3/13/08 1:00 P.M.
PARTY : -

2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
JOURNALIZED 03/05/2008
PERTAINING TO ORDER TO CONTINUE CSPO HEARING TO 3/13/08
PARTY : P1 - LEE KATHLEEN

3/3/2008 1 Title : SRV:COPIES MAILED
COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING PROTECTION ORDER TO 3/13/2008 AT 1:00 P.M. IN COURTROOM #2 MAILED ORDINARY TO PETITIONER AND RESPONDENT AND TO DAVID WILEY ATTORNEY.

COPIES ALSO LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL FORCE AND EFFECT THROUGH 3-12-2010.
PARTY : -

3/13/2008 2 Title : CLS:CPO CLOSED
PARTY : -

3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
CHRIS IN COURTROOM #2 PERSONALLY SERVED BOTH THE PETITIONER AND RESPONDENT WITH COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
PARTY : P1 - LEE KATHLEEN

3/14/2008 1 Title : SRV:COPIES MAILED
COPIES OF CIVIL STALKING PROTECTION ORDER AND FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND

TOLEDO POLICE DEPT.
PARTY : P1 - LEE KATHLEEN

3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
EJOURNALIZED 03/14/2008
PERTAINING TO ORDER OF PROTECTION FULL HEARING
PARTY : P1 - LEE KATHLEEN

4/14/2008 1 Title : PLD:DOCKETING STATEMENT
PARTY : P1 - LEE KATHLEEN

4/14/2008 2 Title : PLD:PRAECIPE FILED
PARTY : P1 - LEE KATHLEEN

4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
PARTY : P1 - LEE KATHLEEN

4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
TO KATHLEEN LEE
322 BURGER STREET
TOLEDO, OH 43605
PARTY : D1 - TRENDEL ROBERT

4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
L08-1111
PARTY : P1 - LEE KATHLEEN

5/5/2008 1 Title : PLD:PRAECIPE FILED
AMENDED PRAECIPE PURSUANT TO 6TH DIST.LOC.APP.R.3(B)
PARTY : P1 - LEE KATHLEEN

Conviction 2, this one is even better...it is his NEXT DOOR NEIGHBOR

LUCAS COUNTY COURT OF COMMON PLEAS
J. BERNIE QUILTER, CLERK
700 ADAMS STREET
TOLEDO, OHIO TIME: 1:18:30 PM
DATE: 2/13/2009

CASE: G -4801 -CI -200802176-000
TITLE: SZYMANSKI VS TRENDEL
JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
FILING DATE: 2/21/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
MISC

MONETARY AMOUNT: DOCKET/PAGE:
ORIGINAL COURT: TAX TYPE:
PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

Party Counsel
Plaintiff 1:

SZYMANSKI DONNA S

Defendant 1:
TRENDEL ROBERT L

Alias(es)
TRENDEL ROBERT

DATE SEQ EVENT

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PARTY : P1 - SZYMANSKI DONNA S

2/21/2008 2 Title : JRE:EXISTING PENDING CASE
PARTY : -

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2/21/2008 7 Title : EX PARTE PROTECT ORD 2903.214
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RESPONDENT SHALL NOT DISSEMINATE ANY INFORMATION ABOUT THE
OVER C.B. RADIO. THE RESPONDENT SHALL NOT APPEAR AT THE
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PARTY : -

2/21/2008 8 Title : MIS:COURTROOM CASE NOTES
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PARTY : -

2/21/2008 9 Title : EVT:EX PARTE CPO FILED/JOUR
EJOURNALIZED 2-26-08
PARTY : P1 - SZYMANSKI DONNA S

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CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
THAT THERE WAS NO RESPONSE TO NOTES LEFT.
PARTY : D1 - TRENDEL ROBERT L

2/29/2008 1 Title : ORD:ORDER
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for a full hearing on February 29, 2008, on a request for
a Civil Protection Stalking Order filed on February 21,
2008. Petitioner DONNAL S SZYMANSKI was present.
Respondent ROBERT L TRENDEL was present with his attorney
DAVID F. WILEY. At request of Respondent, the full
hearing is continued until March 13, 2008 at 1:00 p.m.IT
IS THEREFORE ORDERED, ADJUDGED AND DECREED that the
Hearing scheduled for February 29, 2008, is ORDERED
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Protection Order granted on February 20, 2008, shall
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See Order.
PARTY : -

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FULL HEARING 3/13/08 AT 1:00 P.M.
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PARTY : -

3/13/2008 2 Title : CLS:CPO CLOSED
PARTY : -

3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
BY CHRIS IN COURTROOM #2
PARTY : P1 - SZYMANSKI DONNA S

3/14/2008 1 Title : SRV:COPIES MAILED
COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
SHERIFF AND TOLEDO POLICE DEPT.
PARTY : P1 - SZYMANSKI DONNA S

3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
EJOURNALIZED 03/14/2008

PERTAINING TO ORDER OF PROTECTION FULL HEARING
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 1 Title : PLD:PRAECIPE FILED
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 2 Title : PLD:DOCKETING STATEMENT
PARTY : P1 - SZYMANSKI DONNA S

4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
PARTY : D1 - TRENDEL ROBERT L

4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
TO CHRISTOPHER F. PARKER, ESQ
405 MADISON AVE, SUITE 2200
TOLEDO, OH 43604-1224
PARTY : D1 - TRENDEL ROBERT L

4/15/2008 3 Title : MIS:CLERKS OFFICE NOTES
PETITION FOR EX PARTE CIVIL STALKING PROTECTION ORDER
WAS
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posting.
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Discussion subject changed to "get eklp" by k...@hotmail.com

k...@hotmail.com View profile
(1 user) More options Feb 17, 1:59 pm

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy,
rec.radio.amateur.antenna
From: k...@hotmail.com
Date: Tue, 17 Feb 2009 13:59:08 -0500
Local: Tues, Feb 17 2009 1:59 pm
Subject: get eklp
Reply | Reply to author | Forward | Print | Individual message | Show
original | Report this message | Find messages by this author
On Tue, 17 Feb 2009 05:33:58 -0800 (PST), mopeyzakw...@yahoo.com
wrote:

>Conviction 1

> LUCAS COUNTY COURT OF COMMON PLEAS
>J. BERNIE QUILTER, CLERK

get a life stalker or take this to LS at the FCC who might do
soemthing about it

Reply Reply to author Forward Rate this post: Text
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Please update your nickname on the subscription settings page before
posting.
You do not have the permission required to post.

mopeyzakw...@yahoo.com View profile
More options Feb 17, 2:02 pm

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy,
rec.radio.amateur.antenna
From: mopeyzakw...@yahoo.com
Date: Tue, 17 Feb 2009 11:02:17 -0800 (PST)
Local: Tues, Feb 17 2009 2:02 pm
Subject: Re: get eklp
Reply | Reply to author | Forward | Print | Individual message | Show
original | Remove | Report this message | Find messages by this
author
On Feb 17, 1:59 pm, k...@hotmail.com wrote:

> On Tue, 17 Feb 2009 05:33:58 -0800 (PST), mopeyzakw...@yahoo.com
> wrote:

> >Conviction 1

> > LUCAS COUNTY COURT OF COMMON PLEAS
> >J. BERNIE QUILTER, CLERK

> get a life stalker or take this to LS at the FCC who might do
> soemthing about it

get cancer and die slowly with so much pain that a quart of dilaudid
and hour won't help, assmunch

Reply Reply to author Forward

You must Sign in before you can post messages.
To post a message you must first join this group.
Please update your nickname on the subscription settings page before
posting.
You do not have the permission required to post.

k...@hotmail.com View profile
More options Feb 17, 3:13 pm

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy,
rec.radio.amateur.antenna
From: k...@hotmail.com
Date: Tue, 17 Feb 2009 15:13:23 -0500

Local: Tues, Feb 17 2009 3:13 pm
Subject: Re: get eklp
Reply | Reply to author | Forward | Print | Individual message | Show original | Report this message | Find messages by this author
On Tue, 17 Feb 2009 11:02:17 -0800 (PST), mopeyzakw...@yahoo.com wrote:

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poor ocd sicko

Reply Reply to author Forward Rate this post: Text for clearing space

You must Sign in before you can post messages.
To post a message you must first join this group.
Please update your nickname on the subscription settings page before posting.
You do not have the permission required to post.

Discussion subject changed to "Complete info on the faggy convicted stalker of women, Robert Trendel, KD8IMG" by mopeyzakw...@yahoo.com

mopeyzakw...@yahoo.com View profile
More options Feb 17, 6:19 pm

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy, rec.radio.amateur.antenna
From: mopeyzakw...@yahoo.com
Date: Tue, 17 Feb 2009 15:19:26 -0800 (PST)
Local: Tues, Feb 17 2009 6:19 pm
Subject: Re: Complete info on the faggy convicted stalker of women, Robert Trendel, KD8IMG
Reply | Reply to author | Forward | Print | Individual message | Show original | Remove | Report this message | Find messages by this author
On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:

- Hide quoted text -
- Show quoted text -

> Conviction 1

> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:16:32 PM
> DATE: 2/13/2009

> CASE: G -4801 -CI -200802161-000
> TITLE: LEE VS TRENDEL
> JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
> FILING DATE: 2/20/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
> MISC

> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

> ---
> Party Counsel
> Plaintiff 1:
> LEE KATHLEEN

> Defendant 1:
> TRENDEL ROBERT

> Alias(es)
> TRENDEL ROBERT

> ---
> DATE SEQ EVENT

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> PARTY : P1 - LEE KATHLEEN

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> PARTY : -

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> 2008. Petitioner DONNAL S SZYMANSKI was present.
> Respondent ROBERT L TRENDEL was present with his attorney
> DAVID F. WILEY. At request of Respondent, the full
> hearing is continued until March 13, 2008 at 1:00 p.m.IT
> IS THEREFORE ORDERED, ADJUDGED AND DECREED that the
> Hearing scheduled for February 29, 2008, is ORDERED
> continued until March 13, 2008, at 1:00 p.m. IT IS
> FURTHER ORDERED, that the Ex-Parte Civil Stalking
> Protection Order granted on February 20, 2008, shall
> remain in full force and effect until March 13, 2008.

> See Order.
> PARTY : -

> 2/29/2008 2 Title : HRG:HEARING SET
> FULL HEARING 3/13/08 AT 1:00 P.M.
> PARTY : -

> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
> JOURNALIZED 03/05/2008
> PERTAINING TO ORDER TO CONTINUING CSPO HEARING TO 3/13/08
> PARTY : P1 - SZYMANSKI DONNA S

> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
> FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL
> FORCE AND EFFECT THROUGH 3-12-2010.
> PARTY : -

> 3/13/2008 2 Title : CLS:CPO CLOSED
> PARTY : -

> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
> COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
> PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
> BY CHRIS IN COURTROOM #2
> PARTY : P1 - SZYMANSKI DONNA S

> 3/14/2008 1 Title : SRV:COPIES MAILED
> COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
> FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
> SHERIFF AND TOLEDO POLICE DEPT.
> PARTY : P1 - SZYMANSKI DONNA S

...
read more »

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You must Sign in before you can post messages.
To post a message you must first join this group.
Please update your nickname on the subscription settings page before
posting.
You do not have the permission required to post.

Discussion subject changed to "get eklp" by k...@hotmail.com

k...@hotmail.com View profile
(1 user) More options Feb 17, 7:00 pm

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy,
rec.radio.amateur.antenna
From: k...@hotmail.com
Date: Tue, 17 Feb 2009 19:00:30 -0500
Local: Tues, Feb 17 2009 7:00 pm
Subject: get eklp
Reply | Reply to author | Forward | Print | Individual message | Show
original | Report this message | Find messages by this author
On Tue, 17 Feb 2009 15:19:26 -0800 (PST), mopeyzakw...@yahoo.com
wrote:

>On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:
>> Conviction 1

get a life stalker or at leasts end this somewhere it might have an
effect

Reply Reply to author Forward Rate this post: Text
for clearing space

You must Sign in before you can post messages.
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posting.

You do not have the permission required to post.

mopeyzakw...@yahoo.com View profile
More options Feb 18, 10:58 am

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy,
rec.radio.amateur.antenna
From: mopeyzakw...@yahoo.com
Date: Wed, 18 Feb 2009 07:58:26 -0800 (PST)
Local: Wed, Feb 18 2009 10:58 am
Subject: Re: get eklp
Reply | Reply to author | Forward | Print | Individual message | Show
original | Remove | Report this message | Find messages by this
author
On Feb 17, 7:00 pm, k...@hotmail.com wrote:

> On Tue, 17 Feb 2009 15:19:26 -0800 (PST), mopeyzakw...@yahoo.com
> wrote:

> >On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:
> >> Conviction 1

> get a life stalker or at leasts end this somewhere it might have an
> effect

It has an effect, it upsets fags like you...now, go contract bubonic
plague or anthrax or something.

Reply Reply to author Forward

You must Sign in before you can post messages.
To post a message you must first join this group.
Please update your nickname on the subscription settings page before
posting.
You do not have the permission required to post.

Discussion subject changed to "Complete info on the faggy convicted
stalker of women, Robert Trendel, KD8IMG" by mopeyzakw...@yahoo.com

mopeyzakw...@yahoo.com View profile
More options Feb 18, 10:59 am

Newsgroups: rec.radio.cb, rec.radio.scanner, rec.radio.amateur.policy,
rec.radio.amateur.antenna
From: mopeyzakw...@yahoo.com
Date: Wed, 18 Feb 2009 07:59:26 -0800 (PST)
Local: Wed, Feb 18 2009 10:59 am
Subject: Re: Complete info on the faggy convicted stalker of women,
Robert Trendel, KD8IMG
Reply | Reply to author | Forward | Print | Individual message | Show
original | Remove | Report this message | Find messages by this
author
On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:

- Hide quoted text -
- Show quoted text -

> Conviction 1

> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:16:32 PM
> DATE: 2/13/2009

> CASE: G -4801 -CI -200802161-000
> TITLE: LEE VS TRENDEL
> JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
> FILING DATE: 2/20/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
> MISC

> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

> ---
> Party Counsel
> Plaintiff 1:
> LEE KATHLEEN

> Defendant 1:
> TRENDEL ROBERT

> Alias(es)
> TRENDEL ROBERT

> ---
> DATE SEQ EVENT

> 2/20/2008 1 Title : OPN:CPO PETITION FILED
> PARTY : P1 - LEE KATHLEEN

> 2/21/2008 1 Title : ORD:REQ'T EXT TO PLD GRANTED
> EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
> HEARING TO FEB. 29, 2008 AT 1 P.M.
> PARTY : -

> 2/21/2008 3 Title : MIS:COURTROOM CASE NOTES
> SENT EX PARTE ORDER ORDINARY MAIL TO RESPONDENT, ROBERT
> TRENDEL.
> PARTY : -

> 2/21/2008 4 Title : EVT:CPO SENT SHERIFF FOR SERVE
> COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
> LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
> ROBERT L TRENDEL
> PARTY : D1 - TRENDEL ROBERT

> 2/21/2008 5 Title : EVT:HAND DELIV SERVE BY BAILIF
> NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
> THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
> PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
> PARTY : P1 - LEE KATHLEEN

> 2/21/2008 6 Title : SRV:COPIES MAILED
> COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND
> FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
> SHERIFF AND TOLEDO POLICE DEPT.
> PARTY : P1 - LEE KATHLEEN

> 2/21/2008 7 Title : EVT:EX PARTE CPO FILED/JOUR
> EJOURNALIZED 2-27-08
> PARTY : P1 - LEE KATHLEEN

> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
> LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
> CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
> THAT THERE WAS NO RESPONSE TO NOTES LEFT
> PARTY : D1 - TRENDEL ROBERT

> 2/29/2008 1 Title : ORD:ORDER
> Court reporter Kim Kohls ordered. The matter was called
> for a full hearing on February 29, 2008, on a request for
> a Civil Protection Stalking Order filed on February 20,
> 2008. Petitioner KATHLEEN LEE was present. Respondent
> ROBERT TRENDEL was present with his attorney DAVID F.
> WILEY. At the request of Respondent, the full hearing is
> continued until March 13, 2008 at 1:00 p.m. IT IS
> THEREFORE ORDERED, ADJUDGED AND DECREED that the Hearing
> scheduled for February 29, 2008, is ORDERED continued
> until March 13, 2008 at 1:00 p.m.
> IT IS FURTHER ORDERED, that the Ex-Parte Civil Stalking
> Protection Order granted on February 21, 2008, shall
> remain in full force and effect until March 13, 2008.

> See Order.
> PARTY : -

> 2/29/2008 2 Title : HRG:HEARING SET
> FULL HEARING 3/13/08 1:00 P.M.
> PARTY : -

> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
> JOURNALIZED 03/05/2008
> PERTAINING TO ORDER TO CONTINUE CSPO HEARING TO 3/13/08
> PARTY : P1 - LEE KATHLEEN

> 3/3/2008 1 Title : SRV:COPIES MAILED
> COPIES OF ORDER THAT CONTINUE EX PARTE CIVIL STALKING
> PROTECTION ORDER TO 3/13/2008 AT 1:00 P.M. IN
> COURTROOM #2 MAILED ORDINARY TO PETITIONER AND RESPONDENT
> AND TO DAVID WILEY ATTORNEY.

> COPIES ALSO LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
> SHERIFF AND TOLEDO POLICE DEPT.
> PARTY : P1 - LEE KATHLEEN

> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
> FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL FORCE
> AND EFFECT THROUGH 3-12-2010.
> PARTY : -

> 3/13/2008 2 Title : CLS:CPO CLOSED
> PARTY : -

> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
> CHRIS IN COURTROOM #2 PERSONALLY SERVED BOTH THE PETITIONER
> AND RESPONDENT WITH COPIES OF CIVIL STALKING PROTECTION
> ORDER FULL HEARING
> PARTY : P1 - LEE KATHLEEN

> 3/14/2008 1 Title : SRV:COPIES MAILED
> COPIES OF CIVIL STALKING PROTECTION ORDER AND FORM 10-A NCIC
> LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY SHERIFF AND
> TOLEDO POLICE DEPT.
> PARTY : P1 - LEE KATHLEEN

> 3/14/2008 2 Title : EVT:FULL HRG CPO FILE/JOUR
> EJOURNALIZED 03/14/2008
> PERTAINING TO ORDER OF PROTECTION FULL HEARING
> PARTY : P1 - LEE KATHLEEN

> 4/14/2008 1 Title : PLD:DOCKETING STATEMENT
> PARTY : P1 - LEE KATHLEEN

> 4/14/2008 2 Title : PLD:PRAECIPE FILED
> PARTY : P1 - LEE KATHLEEN

> 4/14/2008 3 Title : OPN:NOTICE OF APPEAL - CIVIL
> PARTY : P1 - LEE KATHLEEN

> 4/15/2008 1 Title : SRV:NOTICE OF APPEAL MAILED
> NOTICE OF APPEAL, PRAECIPE AND DOCKET STMT MAILED ORDINARY
> TO KATHLEEN LEE
> 322 BURGER STREET
> TOLEDO, OH 43605
> PARTY : D1 - TRENDEL ROBERT

> 4/16/2008 1 Title : EVT:ORIG FILE IN APPEALS FILE
> L08-1111
> PARTY : P1 - LEE KATHLEEN

> 5/5/2008 1 Title : PLD:PRAECIPE FILED
> AMENDED PRAECIPE PURSUANT TO 6TH DIST.LOC.APP.R.3(B)
> PARTY : P1 - LEE KATHLEEN

> Conviction 2, this one is even better...it is his NEXT DOOR NEIGHBOR

> LUCAS COUNTY COURT OF COMMON PLEAS
> J. BERNIE QUILTER, CLERK
> 700 ADAMS STREET
> TOLEDO, OHIO TIME: 1:18:30 PM
> DATE: 2/13/2009

> CASE: G -4801 -CI -200802176-000
> TITLE: SZYMANSKI VS TRENDEL
> JUDGE: JAMES D. BATES STATUS: CLOSED/TERM'D
> FILING DATE: 2/21/2008 CASE TYPE: CPO STALK CIV PROTECT ORD -
> MISC

> ---
> MONETARY AMOUNT: DOCKET/PAGE:
> ORIGINAL COURT: TAX TYPE:
> PREVIOUS CASE NUMBER: STATE OF OHIO NUMBER:

> ---
> Party Counsel
> Plaintiff 1:
> SZYMANSKI DONNA S

> Defendant 1:
> TRENDEL ROBERT L

> Alias(es)
> TRENDEL ROBERT

> ---
> DATE SEQ EVENT

> 2/21/2008 1 Title : OPN:CPO PETITION FILED
> PARTY : P1 - SZYMANSKI DONNA S

> 2/21/2008 2 Title : JRE:EXISTING PENDING CASE
> PARTY : -

> 2/21/2008 3 Title : EVT:CPO SENT SHERIFF FOR SERVE
> COPY OF STALKING EX PARTE CIVIL PROTECTION ORDER GIVEN TO
> LUCAS COUNTY SHERIFF DEPARTMENT FOR PERSONAL SERVICE ON
> ROBERT L TRENDEL
> PARTY : D1 - TRENDEL ROBERT L

> 2/21/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
> NOTIFICATION BY COURTROOM BAILIFF: CHRIS COURTROOM #2
> THE PETITIONER WAS SERVED WITH A COPY OF THE STALKING CIVIL
> PROTECTION ORDER BY THE BAILIFF'S HAND DELIVERY.
> PARTY : P1 - SZYMANSKI DONNA S

> 2/21/2008 5 Title : SRV:COPIES MAILED
> COPIES OF EX PARTE CIVIL STALKING PROTECTION ORDER AND A
> FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
> SHERIFF AND TOLEDO POLICE DEPT.
> PARTY : P1 - SZYMANSKI DONNA S

> 2/21/2008 7 Title : EX PARTE PROTECT ORD 2903.214
> EX PARTE HEARING HELD AND GRANTED. CONTINUED FOR FULL
> HEARING ON 2-29-08 AT 1 P.M.
> RESPONDENT SHALL NOT DISSEMINATE ANY INFORMATION ABOUT THE
> OVER C.B. RADIO. THE RESPONDENT SHALL NOT APPEAR AT THE
> POLICE DEPARTMENT FROM 2:30 P.M. TO 11:00 P.M WHILE THE
> PETITIONER IS AT WORK.
> PARTY : -

> 2/21/2008 8 Title : MIS:COURTROOM CASE NOTES
> SENT EX PARTE ORDER TO RESPONDENT BY ORDINARY MAIL.
> PARTY : -

> 2/21/2008 9 Title : EVT:EX PARTE CPO FILED/JOUR
> EJOURNALIZED 2-26-08
> PARTY : P1 - SZYMANSKI DONNA S

> 2/26/2008 1 Title : RTN:SHERIFF SERVICE RETURNED
> LUCAS COUNTY SHERIFF WAS UNABLE TO SERVE COPIES OF EX PARTE
> CIVIL STALKING PROTECTION ORDER TO ROBERT TRENDEL. STATES
> THAT THERE WAS NO RESPONSE TO NOTES LEFT.
> PARTY : D1 - TRENDEL ROBERT L

> 2/29/2008 1 Title : ORD:ORDER
> Court reporter Kim Kohls ordered. The matter was called
> for a full hearing on February 29, 2008, on a request for
> a Civil Protection Stalking Order filed on February 21,
> 2008. Petitioner DONNAL S SZYMANSKI was present.
> Respondent ROBERT L TRENDEL was present with his attorney
> DAVID F. WILEY. At request of Respondent, the full
> hearing is continued until March 13, 2008 at 1:00 p.m.IT
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> remain in full force and effect until March 13, 2008.

> See Order.
> PARTY : -

> 2/29/2008 2 Title : HRG:HEARING SET
> FULL HEARING 3/13/08 AT 1:00 P.M.
> PARTY : -

> 2/29/2008 3 Title : EVT:ORDER FILED & JOURNALIZED
> JOURNALIZED 03/05/2008
> PERTAINING TO ORDER TO CONTINUING CSPO HEARING TO 3/13/08
> PARTY : P1 - SZYMANSKI DONNA S

> 3/13/2008 1 Title : FINAL HRG PROTECT ORD 2903.213
> FULL HEARING HELD AND GRANTED. SHALL REMAIN IN FULL
> FORCE AND EFFECT THROUGH 3-12-2010.
> PARTY : -

> 3/13/2008 2 Title : CLS:CPO CLOSED
> PARTY : -

> 3/13/2008 4 Title : EVT:HAND DELIV SERVE BY BAILIF
> COPIES OF CIVIL STALKING PROTECTION ORDER FULL HEARING
> PERSONALLY SERVED TO BOTH THE PETITIONER AND RESPONDENT
> BY CHRIS IN COURTROOM #2
> PARTY : P1 - SZYMANSKI DONNA S

> 3/14/2008 1 Title : SRV:COPIES MAILED
> COPIES OF FULL HEARING CIVIL STALKING PROTECTION ORDER AND
> FORM 10-A NCIC LEFT FOR PERSONAL PICK UP BY LUCAS COUNTY
> SHERIFF AND TOLEDO POLICE DEPT.
> PARTY : P1 - SZYMANSKI DONNA S

...

1218. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 00:42:21 UTC
From: k3vr@hotmail.com
Message-ID: <e0vrp4ppig4dc6fn7ic8gjeej2pi13fv5m@4ax.com>
Source record: 17441
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Thu, 19 Feb 2009 15:56:39 -0800 (PST), mopeyzakween@yahoo.com
wrote:

>You did it, bobbie, now sit and suck on it.....

grow up man if you can

1219. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 00:51:37 UTC
From: bw <bwegher@hotmail.com>
Message-ID: <gnkuqqkdt1@news.motzarella.org>
Source record: 17442
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

"Jim Thompson" <To-Email-Use-The-Envelope-Icon@My-Web-Site.com> wrote in
message news:rd3rp4d0c21t99l3q1vcrldnue5p5ro9n1@4ax.com...

> Is that set of articles available on the web? That'd be an
> interesting read.
>
> ...Jim Thompson

The 5 parts were later combined into a separate reprint, sold by R-E.
Sections for theory and circuits, construction, testing. Then building a
passive tuner VLF-LF, and a final section on loop antennas. One of the five
sections is a Loran-C receiver!!
I have an original copy in perfect condition, 30 pages, glossy paper,
copyright 1984 by Gernsback Publications, Inc.

1220. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 14:39:07 UTC
From: mopeyzakween@yahoo.com
Message-ID: <ecd097e5-ade5-4d5c-9673-87aabad80fae@w24g2000prd.googlegroups.com>
Source record: 17443
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 18, 2:37 pm, k3vr <k...@ymail.com> wrote:
> On Feb 18, 10:58 am, mopeyzakw...@yahoo.com wrote:
>
> > On Feb 17, 7:00 pm, k...@hotmail.com wrote:
>
> > > On Tue, 17 Feb 2009 15:19:26 -0800 (PST), mopeyzakw...@yahoo.com
> > > wrote:
>
> > > >On Feb 17, 8:33 am, mopeyzakw...@yahoo.com wrote:
> > > >> Conviction 1
>
> > > >get a life stalker or at leasts end this somewhere it might have an
> > > >effect
>
> > It has an effect, it upsets fags like you...now, go contract bubonic
> > plague or anthrax or something.
>
> nt upset realy just tried of reading the same old crap
>
> but tell me why would a fag stalk women?

Who cares what you are tired of seeing? I hope you understand that
fact before you die of inoperable brain cancer.

1221. CIA Official Reveals Demon Mr. Bush Knew No WMDs and LIED to Kill America

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 15:17:59 UTC
From: Johnny America <0988381noemailhere@hotmail.com>
Message-ID: <1ditp4tnv2mdue49ahp5gf86igtgp9sosj@4ax.com>
Source record: 17444
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Bushite Alex Jones "Obama is so much worst than Bush was"

So, don't arrest him for treason that murdered Americans?
Remember, Alex in eight years did everything he could to
not allow any to discuss BUSH'S crimes spree. Doctoring
the NIE?, prior plan from Condi? Or stealing 50 billion?
I could easily go on for paragraphs on DOCUMENTED CRIMINAL
ACTS - acts that Alex would not allow YOU to know need
defense to save the lives of innocent Americans.

60 Minutes: CIA Official Reveals Bush, Cheney, Rice Were Told Iraq Had
No WMD
http://greywolf.newsvine.com/_news/2006/12/20/489409-60-minutes-cia-official-reveals-bush-cheney-rice-were-told-iraq-had-no-wmd

Dumfuk Grunt "Duh, why are we here to kill
good people needlessly so the bushmob back home can
further rob our undefended families bro? Bro?"

What's The Point Alex?

Hey! Alex Jones said today Bush isn't guilty of nothing,
but boy, Obama is bad he'll tell you never mentioning
the FACT Bush LIED US into the Iraq war as a war crime. 1441.
Won't allow it. Why? He is a bushwhore, a believer in Bush,
the Antichrist enemy of Humanity who told US if we tried to
form our own conclusion, we would all be terrorists. NO JOKE.
Bush, the most evil man of all History, Alex claims is
guilty of nothing. Example: Bush, is his first days,
STOLE 50 billion dollars. How can Bush (the banker family
tied to Hitler) be above all the laws of the Universe
someone ask Alex. You know, Alex will hang up on any man
or woman who states in question, as he did with Peggy,
a once loyal listener, why he refuses to acknowledge the
evidence of Ron Paul being cheated through a fixed
election. Attempting as a demon, to demonize whomever
phones with such truths - like Ahamd, or Condi's 911 plan
for Enron. Alex Jones is openly a bigot, and a man who
has OPENLY confessed the willingness to murder INNOCENT
Americans - before allowing Justice to rule for the
defense of every American. I want open debate, he wants
censorship, so he can continue to masturbate to the
continuing deaths of innocent Americans. Laughing with

DEMON George Noory who claims Laden did 911, Hamas broke the truce, and Iran is a holocaust denier. Enron. Has Alex even ever mentioned it as motive for invasion of Afghanistan? Never. Has Alex ever stated the Taliban were simply asking for evidence to form anyone's conclusion on who was PERSONALLY responsible for 911? NEVER. THINK here. Even after me sending him email after email for years. Alex states all who criticize him, are delusional, because he warns people of poisons fed the masses. So therefore, every last word I state about Alex Jones undermining our wanting for real Justice is correct without argument - As according to ALEX, he is delusional. Wow eh? Alex is a stupid bigot as a matter of fact. He'll tell you we gotta get past the left right thing, (trying to steal my thunder - where i give to all freely) yet, near next breath, or the one before, he'll tell you what all Liberals think. Or all socialists, or... blahblah Someone should ask him what Christians think about letting the mass murdering LIAR Bush escape Public trial for high treason by conning teen grunts who are now dead. Bush PERSONALLY closed 911 investigations immediately after all. Again, NEVER mentioned by Alex as important to our struggle to arrest, try, and execute those responsible for mass murder in Johnny's America. An America were every Human life is worthy our protections. Where Alex Jones is NO GREATER than anyone of US. He is in a popularity contest, while I couldn't give a rats ass what rupuglicon, or demoncrates think about my wise words on God and Justice. Great entertainers I am not blindly enamored with, nor do I believe FALSELY, demon Bush, the Antichrist, is above and beyond all laws of our Humanity. If 99.9 percent of godless Americans disagree with me on God's will to have all neocons with the Bush Administration arrested immediately for public trial for high treasons, to hell with them all as they lose their rights rightly. For, they are not our friends who willingly murder OUR Humanity for stolen private Banker gains. Alex, a bushwhore, a censor, wrongly believes Bush is guilty of nothing. A bushwhore of the antiChrist he is. I mean come on, he claims all those folks who followed truth mentioned in the Bible were murdered. How stupid is that????? From what I recall there was a suicide, and well, that's about it. How many American "Christians" actually believe a man of God actually walks this world? How many? Being Gay is okay with me. I'm not Gay, but still to each his or her own, as long as your not infringing on the rights of another to do what ever they choose. I love all children too much. Real Freedom. GCN advertised HATE for Gay folks, then at the website, murder - and the station sees still, no problem with dividing our innocent masses on desperate

attempts to escape the neocons from Justice. That's the REAL reason Alex states a derision for Liberals. Note: "Liberals" in Canada are a right wing party that disbanded the RCMP corporate crime division as perfect example, and! sent a Soldier to prison for refusing criminal orders. Never allowed by Alex, for his gold dealing boss has a son killing innocent Peoples for Neoconned cash in Iraq today. ALEX WANTS TO CENSOR US ALONG WITH THE ENTIRE BIBLE NOW WHILE MASTURBATING HOW HE IS NEVER WRONG? In his dreams maybe, but not our shared suffering reality. By the way, has Alex ever written for Justice? and why not?, considering he is so greater than all others who haven't been invited on his show he stupidly said two or three days ago, me, and everybody else here globally? Truly delusional he is for not being truthful. Be a man Alex and face me in open debate to defend YOUR idiocy, he won't becasue HE KNOWS, Americans would win, and he would look the fool as loser. Too cowardly to defend America he is, because he doesn't have the virtue for it, and refuses to hold respect for men like me hugely wiser than himself he works to keep all down for death. Alex claimed the will to gun down kids who steal copper. Not only a man unqualified to "lead the Truth", but not qualified to even carry a gun. He told US when hearing the bullets going into the backs of two innocent men in an act of pre-meditated murder, it was 'the sound of Liberty'. That is evil to all my friends, evil to US all. He has called himself "the white devil" while mimicking another he refused to allow speak for himself after all.. And no, a debate between US and Alex will not be done where he gets the cut off switch to deny all others under the sun who speak for real Justice. Real freedom.

Bush and Cheney are traitors to the cause of American Liberty. To leave them free, is to leave America un-guarded from further transgression.

Patriotic American Navy Vet is tortured by bushite nazi grunts
http://killfile.newsvine.com/_news/2006/12/21/491153-white-american-navy-vet-is-illegally-detained-tortured-and-tried-by-us-government?last=1166730840#last_4

Again, Reagan warrants death to all who torture, and a deep hatred for all ungodly in America who support it. Why? Because the vast American public (especially FoxNews treasonous LYING enemies of The People) DO NOT have the intellectual skill to understand what freedom is. Justice. Look at me! they can't seem to talk for Christ's interests, that smart ass know it all, where he thinks he's so ingenious where no one on Earth can find fault with his indisputable simple logic we share EQUALLY. (Bankers don't cover our loans for example) Kill my kids,

my spouse, myself, before allowing John to speak openly
in the public on Coast to Coast for open debate, all of
Americans say in silence censored. Why does America continue
to die this way? Because bushites are truly as they claim,
stupidly ignorant as treasonous cowards, or as
prosecutable criminals, evil people who only want in this
world to rob or murder People indiscriminately as enemies
to Justice, enemies to GOD, a Criminal. NOT A JEW you fuks!
George Noory will tell you freely all about his hatred for
our Humanity, he does it near everyday, though People don't
have the ears to hear, or the care. Too scummy. That
remember! get American GIs murdered by the score with NO
REASON AS FOR. Example: why bomb more than a million
innocent souls indiscriminately in Iraq, if you have
complete unrestricted access to go where ever you will?
And, that Bush, Cheney, Condi and such, knew from day one,
Saddam had all the WMD destroyed as documented fully, as
did I. Documents that BUSH personally stole if you recall
not listening to Alex Jones, Foxnews, CNN, or the CBC.
err. maybe it was Bolton - s-t-o-l-e-n -.
Likely, as a likewise deeply ignorant person, you know
little of Life as principled for individual freedom, and
couldn't care less what this boundless Universe offers
all in reflection, instead, it all about what's in it
for you as a lying cheating thief to this mystery right?
Wanna be a lawless mercenary to murder innocent people
dreaming of becoming a private investment banker, who
never earns a dollar in their entire careers, taking
trillions undefended from Humanity just to see US
suffer to deaths for our continued silence. All you have
to do is raise your phone to demand justice in our times.
All Neocons must be arrested for public trial, along
with near every last member of the Bush Administration.
PUBLIC TRIAL. And Soldiers must learn quick a commander
who doesn't support getting those responsible by following
the crimes scene leads, is a commander deserving of an
immediate firing. Otherwise, what use is the grunt
good for eh?

Again, Ron Paul like near all Libertarians, does not
acknowledge the wanting of Justice for the high crimes
of Banker fraud, Iraq, or 911! He took the "Truther"
money, but refused to support the arrest of Bush for
treasons times 50. Social Security he wants to gut
like Health Care as a sadist who knows near nothing
on how such systems currently operate. Again, he
does not speak of recouping the STOLEN 1000s of
billions from America, or the lives. STOLEN. What
is it that you can't figure here? Fuk ego, FACTS.
We are all effected by suggestion, this is why,

since the dawn of time, evidence has been the
prerequisite to convince ourselves of anything.
Alex's cartoon storyboard, is truly, as measured,
Alex masturbating with our precious times. Think:
Alex doesn't ask Americans why they don't support
the arrest of Bush for high treason because a world
where all are treated equitably is beyond his
understanding as a bigot. He could change, but he
is 'light years ahead of the Public'.. but of what?
All you need do, is every time Alex says "they",
ask yourself, WHO? - then know: the bartender at
"Bilderberg", isn't as FOR SURE guilty of crimes as
Condi from "Builderberg" is. The 911 plan came from
her very desk according to MSNBC, never mentioned by
Alex Jones. Why? You have to be near genius like
me to explain it COMPLETELY without even seeing it.
NOT MAGIC, more like meditation through understanding
our universe is ruled by good ideas. Alex is a man,
a Good man mostly, with some fears countered with
an irrational aggression (not thought through) that
found him blindly supporting the murder of two
innocent men. Not freedom. while I, am of God. An
actual god. The Son of Man as a matter of fact.
I want to tell you how great Life could be, but i
see so very little of words present to survive the
lawless corporate state. I AGAIN, will ask YOU to
forward this post to two People, but will YOU??
Torture is outlawed by warranting Death under Reagan,
and.. it's like the best way to resolve a FoxNews
'excuse' given to illiterate nazi grunts to abuse
ourselves as innocent others. Tell me I'm wrong. .
KBR rapes American women, or murders them, and needs
to be hunted down by All American military forces
for it, as trialled to death. Including all commanders
of the Air Forces responsible for bombing our families
without causes. And lastly, any that discourage our
grunts from not supporting the arrests of those that
actually did US wrong. Get to it.

http://groups.google.com/group/alt.fan.jesus-christ/browse_frm/thread/5b24b172a24a923e?sco
ring=d&

/ / Again, as bushite fascist nazi vermin, they let those
responsible for destroying America through the bushmob
war crimes, still sit in the, for sale freedom captain's
chair, high-jacked from US true Loyalists, attempting to
get away the bushmob is doing from 9/11, by going real
fast .. nowhere. \ \

True you Fool

http://www.crooksandliars.com/Media/Download/16792/3/60Minutes-Tenet-2.wmv

/ / OH THE HORROR.... To those who say I lied about what
Tenent FREELY confesses (60Minutes-Tenet-2.wmv) LISTEN
in horror at what America is truly led blindly into
hell with STILL.. \ \ crooksandliars pulled the recording!
It it Tenant tells of the bushmob knowing in July 2001 bin
Laden was going to get blamed for a strike big in America
from a cave in Afghanistan! Then later, (not mentioned) in
AUGUST! Powell went over there himself personally, and gave
the Taliban 43 million dollars as an award. Swear to God true.
NOT HIDDEN. Look it up. I mean it made almost all the major
dailies. See? This is what Alex fears, that wise men, actual
wise men, like myself, can put this stuff together in seconds
by freely communicating for open challenge on error, of what
would take others committed to dying through censorship for
blind fear, never in a lifetime spared. Who cares right?

Johnny Law for Coast to Coast radio host!

-

9/11 - strange facts
http://www.youtube.com/watch?v=MeybdEuf16A&feature=related

Alex Jones on Coast To Coast AM with George Noory P2
http://www.youtube.com/watch?v=F5KHtj_b0Ro&feature=related

"I'm light-years ahead of the general Public in knowledge"

/ / Yet, doesn't know a thing about Education,
Health Care, Social Security, Banking, or evidence
to form our guilty or innocent verdicts on which
war to fight for. And.. can't figure Bush guilty for
treason? Apparently yes, that dumb. \ \

A Den of Thieves - why give to private bankers
who don't cover loans you godless nazi savages?

http://crooksandliars.com/susie-madrak/gop-house-whips-wife-didnt-know-her-b

/ / the firm for which the spouse of the
House Republican whip works has scarfed
up a couple of hundred million bucks in
the banking bailout. Really. (I can
understand why you might wonder,
considering Rep. Cantor's role model
seems to be the disgraced Tom DeLay.) \ \

You know God, I'm beginning to think
these Amerikans don't like US much eh?

Private Banking Made Simple

http://www.megaupload.com/?d=0K03GAVY
http://www.mediafire.com/?xo9w32zmfox

Israeli Bombs inflict more pain on Gaza hospital
http://uruknet.info/?p=m51882&hd=&size=1&l=e

DEBATE OVER

/ / Late last week, a federal court ruled that
there was no link between childhood vaccines
and Autism. But the legal conclusion is not
enough to erase many parents' concerns and
the debate continues. \ \ Mercury causes brain
damage as a neural-toxic heavy metal. Love God
why don't you? Alex near always calls his
critics jealous, so, are you jealous? Would
you rather see every American child murdered,
or suffer toxic poisoning, before acknowledging
we are without challenge, the greatest minds of
our time? Hurt you does it? Can't find a single
argument against my demand for Justice, but dying
instead, claim my call for freedom practiced
is to good is to be true in your dying dummy world
censored? It IS George Noory that denies you the
respect a person who craves Justice for all 911
victims. Cartoonish Alex Jones, the bigot, sucks.

The New World Order Alex Fears
http://groups.google.com/group/alt.military.police/browse_frm/thread/c61e5ca386f9f07b?hl=e
n

This Specifically:
http://groups.google.com/group/soc.culture.iraq/msg/c681b8ed9de5ede3

Alex Jones, "Liberals don't like Bush."for
mass murdering Humanity as never elected
demon enemy of God he means?

He tries to divide the freedom movement
away from Justice for ourselves.

Question for Alex Jones NWOers, wouldn't
God, if we existed, wouldn't God, push for
a one world government where all are treated
fairly through Justice practiced? Yes or no?

America! I am King Johnny.. I am from the Planet
Earth, I've come to share the knowledge of Justice
in our times on behalf of this, Our Future Great
Triumph over Evil.

/ / At 8:51, the flight [175] deviated from its
assigned altitude [31,000 feet - therefore cell
phones impossible], and a minute later New York

air traffic controllers began repeatedly and unsuccessfully trying to contact it."

And one minute later at 8.52, Lee Hanson receives a call from his son Peter. \ \

Couldn't have happened, as is why, these phony "FBI" bushmobsters stole the recordings and don't want the still dying victims to know the truth of the Neocon traitors to God and Justice. Cell phones are not capable of paralaxing above likely a couple thousand. Someone on Earth would likely know the near exact scientifically measured distance as nothing greater than a couple thousand, for why the need to put towers all over our fair cities then? 31,000 feet is a distance of miles! Hint: 5,280 feet in a mile. 5.871212 miles in fact. Drive out 5 miles from your nearest cell phone tower, oh yeah, and don't forget to bring a elevator like aluminum box to stand in, moving 500 miles an hour, then ask yourself, how dumb does a Repuglicon or Obamanaut take US for as silenced to the tyranny of mass murder in my America?

TED SAID SHE DIDN'T HAVE HER PURSE
http://911review.org/Sept11Wiki/Olsen,Ted.shtml

/ / Ted supposedly told CNN that she called him collect. However; once a credit card is swiped, you can begin using the phone to make calls. So, no collect call would have been made. \ \ The allegation also has been debunked by reported to be, Airline officials who stated no public phones were even available on 177. That seems near too far fetched, BUT!, GTE Airphone reports DO SAY - zero call assists were made on flight 177. ZERO. So, how then does she make a collect call then, and why if as claimed, Ted and Barbara were madly in love, would she not know her hubby's personal number?

Remember, Ted was the coke pusher's lawyer in the Contra case, of which Ted, was also assistant secretary to the Solicitor under Reagan. The Contra group if you recall were/are pushing crack cocaine into major cities for plans to undermine the American government for illegal wars against peaceful civilized life as stolen profit. YOURS.

FBI SAYS TED OLSON LIED OR WAS DUPED. NO 9/11 PHONE CALLS
http://www.youtube.com/watch?v=v78ibOa4PDE

The Olson story would make for good horror
if it just wasn't so horrific. EVEN I'M
SPOOKED. Olson tells of a elaborate drama
where he learns, she without her pursed
cell-phone, has to call through the phone
records of the Justice Department. How did
he forget that fact when first pronouncing
of how she had phoned him from a cell-phone,
or, then from an airliner that didn't have
phones in the cheap seats, nor tear-gassed
upper-classes? The trouble here is that
a small cadre of bushmobsters keep hiding
the evidence on CNN, FoxNews and George Noory
implicating themselves at the crime scene,
as illegitimate "intelligent officers" -
we WANT to know our media voices the voices
of those who support defending ourselves from
the 911 war mongering terrorist enemies.
Evidence is the prerequisite.

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Largest US Church says Bush behind 9/11
http://wakeupfromyourslumber.blogspot.com/2006/08/largest-us-church-s...

-
-

Beverly Eckert - victim to mysterious plane crash
http://www.commondreams.org/views03/1220-04.htm

/ / By suing, I've forfeited the "$1.8 million average
award" for a death claim I could have collected under the fund.
Nor do I have any illusions about winning money in my
suit. What I do know is I owe it to my husband, whose
death I believe could have been avoided, to see that
all of those responsible are held accountable \ \

Americans Want Torture Inquiry, Obama Doesnï¿½t
http://www.uruknet.de/?p=m51793&hd=&size=1&l=e

(who spoke to Obama just several days ago about bringing
Justice for America - Beverly, a anti-torture campaigner
also, likely spoke to Obama on the interest for EVERY
American Christian to hunt for prosecutions of bushite
enemies who lawlessly torture innocent children to death
with General Miller - what's Obama's response outside
of more false arrests of Americans, torture, and bombings
while giving banksters more billions to disappear out the door
never to be accounted for either? not much to care, for

Alex Jones is running his cover, along with the bushmobster neoCONners)

It's too bad Alex Jones, and his demon 'buddy', George Norry forbids Americans to know of General Ahmad, Bush closing FBI investigations, and iron flowing from the towers as more important than a passing fact he might have mentioned three or four years ago - Alex I mean - George's direct policy as so told to Alex, is NO INFORMATION on who was personally responsible for mass murder will be ever allowed spoken, while he demonizes millions on hopes for more indiscriminate mass murders killing mindless teen grunts to profit Zionism's war against Truth and or God.

Stephen Harper copies John Howard WORD FOR WORD
http://www.youtube.com/watch?v=L8YwJC_nBgw

BANKER SOLUTION

Solution: refinance near zero interest, (as low as we can go), and concentrate on returning all defrauded assets - working to put money in the hands of our criminally stolen from Low Income Grand Parents, who are robbed routinely in Casinos, and fraudulent mortgages schemes, where the intent is never succeeding but for the scammers playing US for suckers. Then, lower the taxes on all essentials including, expenses of harmful Pharma, clean up the food and the water with tight regulations - 'tight' because it's well thought out scientifically,. (sodium Fluoride is a poison) .All the while, gearing up for the Trial of Trials - US vs George Walker Bush and Co..

This is FDR's idea that worked "refinance near zero interest" So, a working plan could be to create a near no private profit plan, but a public plan that profit's The People Instead of Banksters stealing our public authority unchallenged by American corporate culture for personal private interest left undefended. The Depositors are the Shareholders! Broadcasting Everywhere.

/ / Provisions to impose a penalty on banks that paid hefty bonuses and to cap pay at $400,000 for all employees at firms applying for additional government funds did not survive the compromise, sources said. \ \ Another sacrifice to America's "God" substitute. aka magic private banker zillioniares, who rule the free thought of TV AmerikCo giving your life without free thought to question.

Why pay bankers more when they DO NOT cover our loans?
Hate US still for speaking truth dying amerikcan dumfuk?

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related
[CNN pulled this A. Cooper report off youtube - accessory]

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever.

King Johnny's "Nazi Israel"
http://www.megaupload.com/?d=QAEXT4G0
(note: History has changed since then)

-

FBI Believed that Bombs Used on 9/11
http://georgewashington2.blogspot.com/2009/02/fbi-believed-that-911-involved-bombs.html

/ / Indeed, the FBI told a reporter for
USA Today that FBI agents believed there
were bombs in the Twin Towers. \ \

Awesome. Where is CNN and CBC here? Is
this an issue of life and death or no?
Who are they to judge OUR lives unworthy
of defense? I am King Johnny. Support my
demands for open communications above the
NWO shills who bark Bush and the Neocons
must be allowed to escape our Public
authority.

Eyewitness to Shanksville Crash - It Was Not a 757
http://www.youtube.com/watch?v=An_nXpr5K0A

Fake 9/11 Call From Flight 93 Exposed!
http://www.youtube.com/watch?v=L8JV3dJEJmA

These two "fbi" officers have to be brought in
with Mueller for questioning on Coast to Coast,
CNN, and the CBC. Likely the same two
responsible for following something near
3,000 leads, as so told to the actor, ah..
whatshisname about turban wearing zeros.

-
responsible for releasing millions of American made land mine
cluster duds that will murder as TERRORISTS do,
indiscriminately for decades. Perez, the DEVIL, along with
corporate news zionists, hold those crimes deserve immediate
executions with targeted strikes against the purveyors of true
EVILNESS. Please I beg, give G-D mercy.

http://www.waynemadsenreport.com/

/ / According to U.S. intelligence sources, at the end of
June 2001, the FBI intercepted two phone calls from Grossman
in which he told the called parties to "stay away from

Brewster Jennings . [Plame's TP SCRT Cover to nab REAL terrorist WMD proliferators by using GOOD policing freedom skills - with logical arguments, warrants, and everything!] . . they're the government . . . they're nothing but a cover." One of the calls was to a Pakistani Inter Services Intelligence (ISI) top agent in Washington. \ \

So, the ISI was warned by the White House clandestinely, in June 2001, 'some do gooder cops are on the prowl defending our interests, looking for REAL terrorists who jeopardize Freedom's cause, so, you'd better watch out for America's will power, US might get US, and boy, then we'd be in for one big hell of a surprise!,. eh?. Are you still with me? Hello? Is someone else on this line? ... Yyyou'll never catch me.'

Marc "Johnny America" Grossman "Any country that doesn't go along with US will be paying a very heavy price."

CNN Admits 9-11 Inside Job
http://www.youtube.com/watch?v=uyMIqVfH8zY

Patriot of Great Britain arrested for sending "7/7 Ripple Effect" to judge and jury members
http://truthaction.org/forum/viewtopic.php?t=4999

/ / Anthony John Hill, originally from Sheffield, was arrested on Carrig Street in Kells this morning on foot of a warrant issued by the authorities in Britain.

It is alleged he sent DVDs entitled "7/7 Ripple Effect" to the jury, the judge and members of the victims' families. \ \

All of Great Britain joins US in demanding the "Judge" to face trial for death sentence. Peter Powers "did" the 7/7 bombings. Ask Netanyahoo, he knows.

-

Report Of ï¿½People Planting Bombsï¿½ on 9/11
http://www.prisonplanet.com/report-of-people-planting-bombs-on-911.html

Why isn't Happy George Norry, Our Enemy, covering this everyday as an important subject to defend American life he holds truly in contempt? Again, Alex Jones leaves every American to die victim to his NWO, before he will acknowledge TRUE evil in our world. George Noory, the evilest ACTUAL Enemy of History, Alex claims is a good guy for never allowing open discussion on 911, Afghanistan, Iraq, and so on, without selling

his Zionist hate for our Humanity.
allowing the notion that he, and
his likewise cult, might just have something to
learn about evidence being a REQUIREMENT to prove
someone's guilt or innocence. His godless commitment
is to escape Bush, and his zionist media controllers
with excuses that don't hold water in any Court of
Thee. Alex refuses to allow Americans to know why
the Constitutional protections are there to defend
yourself, because if you did, you'd demand the
arrest of Bush for treason, and call Ron Paul a
sell out loser who pocketed the millions conned for
being Alex's loyal fans. Alex doesn't like this Truth
because he's gotta be leading Earth's "Truthers"
at the pinnacle of his spear as a liar, where all
of History, is one badly drawn Alex Jones cartoon.

I must be on crazy pills
http://www.uruknet.de/?p=m51615&hd=&size=1&l=e

/ / Well, why haven't the banks just returned
the money?... \ \

People who know they defeat all "Conservatives"
in seconds with indisputable simple logic, will
eventually rule the Universe, if CNN, CBC, and
Alex Jones allow open communications on what is
understood by all as high acts of treason openly
committed without a defense of smart people
explaining why/how we are being rooked as idiots
on purpose. Crazy man, crazy.

Oh, logic like, "Buying in bulk is cheaper."

-

Godsmack - I Fucking Hate You
http://www.youtube.com/watch?v=FiPtHkfDXus

Hey! Johnny's new theme song playing when
I be bagging the bushite zionist whores of
the demon antichrist, Our Mr. Bush Jr. Bush
closed 911 investigations, Bush lied about
Saddam not letting inspectors in, Bush never won an
word fairly in his entire war crime life of
game rigging with naked deceit and betrayal to
the cause of Man, die bushite die. Rock on
my friends, rock on.

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why

bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what
any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

Private Banking Made Simple
http://www.mediafire.com/?xo9w32zmfox

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough
-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?

Wake up people, we are under attack by those who refuse US Justice to win Freedom for anyone. "Conservative" retards are completely lost here, because they do not have the intellectual skills necessary to understand: a person accused of a criminal offense without any evidence is innocent. Or, how about, No one deserves to be tortured for confessions on crimes left then unresolved for actual retribution. [Aegis OPENLY murders innocent families for more American paying for zionist monies - P2OG - YOUR Spouse, YOUR Child, YOUR family].

Following the crime scene leads of 911 to nab the actual evil doers is beyond the will of the deaf, dumb and blind? with lawlessness gaining for monetary loses due America as corporate cheaters. We are Brilliant, of that much I am certain. Conservatives are minimally, idiots.

Worst Person in American Broadcast Journalism
http://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel

This is like, so profound. Gibson's condemnation is directly aimed at his own ideas of the subject he has no grasp of. Wow. profound. See though.. this "popular" FoxsNews celeb has zero interest in helping America succeed to defend freedom through lawful actions, because he has no sight of a better world blindly destroying itself. Hey Gibson! why don't you try and be a good guy for a change! No joke. Wow. Profound.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-children-would-die.html

/ / the soldiers told her she had to choose five of her children to ï¿½give as a gift to Israel.ï¿½ As she screamed in horror they repeated the demand and told her she could choose or they would choose for her. Then these soldiers murdered five of her children in front of her. \ \

Funded by the American tax payers as a gift to God as our stolen Humanity. Equal rights for all, especially the Taliban's position in defense of America, demanding evidence to form our guilty verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Five years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all
around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their

crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be
an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men.

-

PetBed-CatTree
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would
have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors
in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not
Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'
dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions. Yet.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my

Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

-

U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministeri¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow
/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change
this for our Humanity in this future, to look back,
and know, American males were men of the World, who

stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&pla
ynext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3
http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3

http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the
coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&
scoring=d&

Huh? "at last been disarmed..." ? How does he figure?
The equation hasn't changed. Example: The same
unaccounted anthrax, (that was disintegrated into ash),
still is not able to be measured as completely accounted
for, (never could be), but this bushwhoring war crime
apologist, tells US, it was only though the lawless
murder of our good friends and family for countless
generations, that he now attests without reason, or
evidence, to find Iraq in "fact" disarmed of it's still
nowhere to be found, weapons of mass destruction. (An
irrational reason he pronounced previous in corporately
broacasted public support of instigating heinous war
crimes against our humanity under the leadership skills
of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron.
And, the Iraq war is a war crime. But Ron, the
Fascist, doesn't want THESE FACTS uttered. Why?
Because wiser men would prevail, wiser men like
me who understand buying in bulk is cheaper. Those
like Christ who understand, who KNOW, the banker

doesn't cover our loans - so why give them as much as a taxed red penny?, let alone trillions as officially unaccounted for? They are stealing the cash Ron. Ask yourself: Why has Alex Jones forbidden his bushwhore cult from understanding Bush doctored the NIE?, or of iron flowing like water from the towers? Because wiser men would prevail and he can't have that. He called shooting innocent men in the back, an act of liberty. I, an actual god, unlike Alex, lie near never, but maybe to myself when I'm lonely. Alex yes will tell you rapists are free to do what they will in Texas to American children, un-arrested, but he won't mention it when the police chief is with him on air, talking about how he'd like to be exempt from traffic tickets for being so popular. NO MENTION of the rapists walking away without arrests made, no mention of Bush's documented treasons on 911. Where are Alex's priorities? In selling YOU out so he can be wealthy like a bankster?, and have special rights over everyone else that drives drunk, or speeds? a big hero standing over our dead soldiers yelling, I told you so, I told you so, I was right, I was right. Again, understand: It is not by my will to deny open debate with America, it is Alex, and his demon buddy George Noory that denies out Humanity this right. And when people try, like Peggy, or Black men on Jewry, Alex lies cheats and steals our wills for further thefts. Ron Paul's family has millions taken from loyal Alex Jones fans. MILLIONS! Does Ron do commercials with that money highlighting the bushmob's plan to invade Afghanistan, dated two days prior to 911 for Enron? Of course not, wiser men would prevail to expose him as the charlatan charity raider he is regarding Health Care, Social Security, Public Schooling, earmarks.. It is unfair to measure Ron against corporate nazi zionist whores of MSNBC who willing, openly, kill American teen soldiers for criminal neocon gains, as an honorable gentleman's talk. Half honest People like Ron are extremely ignorant on the workings of our world. EXTREMELY. I joke here not. Evil is the deceived disguised - translated - evil people are always dumb.

Corporate America says no, Charlie Manson was a genius, but not, that most Americans are prone too easily to suggestive states where they can be made to believe anything blindly. Think: what does, "bin Laden did 911" mean anyway? You should know of what I'm trying

to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.

It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars
awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable
death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

/ / the FBI says no.. There is not a thread of
fact a zionist offers to form YOUR own mind in

respect for your rights being equal to ours. \ \

Who is the guy who keeps writing such things,, and
shouldn't he be recognized as Promotional to raise
all spirits towards a better future? I'm with him.

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes
http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

Alex Jones, the Slave, told US today that
he challenged Bush for eight years - Bushite
lying nazi traitor. Not only that, but he
also ridiculed those who wish to blame Bush
now for anything! Again, he doesn't want
Justice where bad guys can't steal from
ourselves unrepresented. Ron Paul is a
multi-millioniare, made rich by charitable

aid conned from Alex Jones' NWOers! Alex
Jones doesn't have a problem with that, we
do.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

-

Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Daschle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

http://www.iran-daily.com/1387/3324/html/east.htm#s359247

/ / International attorneys have filed war crime
charges against 15 Israeli political and military
officials including Ehud Olmert, Tzipi Livni and
Ehud Barak. \ \

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We must demand open communications to bring back
values WE ALL would agree to through polite debate.
"Conservatives" don't want this Freedom idea
expressed in general terms because, a "conservative"
is universally, minimally. a bigot. Why? Life isn't
like, their way, - then- all other opinion under
the sun on how things actually get done. (Aka
"socialist" traffic light repair men, or "liberals"
who want to treat The People fairly). Or who we are
as equals to our laws fairly practiced. Pay attention
to what I am saying here. Liberals can be Dicks with
a capital D too of course. But a Hannity couldn't
survive 2 minutes with me speaking on his very real
treasonous behavior in OUR public arenas. Behavior
done to escape the 911 culprits from the long arm of
the Law, with his conscious will of criminal deceit
exposed, we all learn to better defend ourselves.
And Shawn Hannity can't have that for ourselves, he

takes too much money from ourselves as talentless by keeping US in the dark dying needlessly for traitors never elected publicly.

Who am I you ask? Johnny Law. at your service. Look me up with usenet to discover, we live in a world of idiots everywhere pretending to be somebody by lying. While I want US all to truly improve our condition by actually understanding how bad off we are by failing to respect ourselves for correction. Too many, know it alls, with not enough to know you need evidence to form a guilty verdict against an accused man or woman. Not according to CNN, CBC, MSNBC, Foxnews and the like however. Let's change this by supporting my challenge for top billing at the Coast to Coast radio show hosting. Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the view count? What is this business of a=a+1, the top secret, I'll go rhythm, that is way beyond our comprehension in it's scientific complexity? For Americans, okay, but the Human species just isn't this dumb.

While Zionists OFFICIALLY target Christian school girls for mass murder, CNN instead reports that bushite grunts attacked girls in Afghanistan, posing as Taliban. I WILL every celeb at CNN to be arrested, tried and executed for the reporting they have done today without facts. Remember: the Taliban played no part on escaping those responsible for 911, and opened schools for girls, and were brought together on the single purpose to defend women. Death to CNN reporters to LIE for killing OUR school girls. I HATE zionist enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US officials from torturing but it does not ban any of them, himself included, from sponsoring torture overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants the death sentence under Reagan's "War Crimes Act". SPECIFICALLY. Or, is it you falsely believe Obama

can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close
Police investigations immediately after

911 (obstruction), or that WE have video
of iron flowing like water that PROVES,
without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with
all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice like your deviant election rigger,
Ron Paul? Well, no wonder, Alex told US he's
into shooting innocent American People in
the back as a tyrant of evil, a white Devil
if you will. Kids too if you dare look in
his back yard for a copper. See? Now if Alex
doesn't allow US to speak, more and more will
understand to know why. I am a defender of
all that is right and just in this world,
because I don't need to lie like Alex does on
a huge host of issues. I'm more like Jessie
Ventura, in where I don't need/want to lie.
If I end looking foolish, (of which I like
never truly am), it's a benefit, because that
way, I've learned something. Alex knows
everything already, and 'is always right'.
Like I say Retarded. You weren't right by not
understanding that the banker doesn't cover
the loan. One example of easily hundreds. He's
a typical, he knows it all, know nothing dumduk
American. Hear him on health care speak as
Ron Paul does, and know, I defeat them in under
ten seconds. TEN SECONDS. This is why he hasn't
in years, allowed me to speak more than five
or six words. He's rather all America die, than
admit he does NOT rule our 'Ocean of Truth'.
I want the challenge of opposition through debate
to PROVE my skills beyond reproach. Alex,
every time, just hangs up on anyone who tries
to improve our communications by factually
speaking. Why? Because he IS TRULY deeply
ignorant on what freedom or Justice means. Why

we have law. What a consensus is. Allan Watt is severely disabled in this regard, another Alex Jones favorite. And this is why, Allan can't take calls openly either. He has jerked off with himself too long to quit now learning super basic precepts, for like Alex, he "knows" the inner workings of the 'genius' NWO elites. Not Law 101, not Bush, not Rumsfeld, Not Condi, not Torturers, not bank robbers, rapists, or even petty thieves. Allan Watt isn't a bad guy, he's just a chauvinist pretending he actually knows something, when his real disability is directly related to his absence in understanding understandings. Doubt is a near foreign concept. A challenge for Allan: can you get your 'genius mind' around the fact that Peter Powers did the London bombings, and not the Illuminati of 1463? and if not, why are we so dumb to our present plight that way? Don't get me wrong, Allen has much to offer, it just isn't the issue right now on saving our dying futures. Maybe I was too hard on Allen, he is really actually kinda cool. Alex Jones too has many incredible moments of ecstatic clarity increasing in all they joy of seeking enlightenment. .. Ok - but this is serious business that requires little dilly dally with what we'll have as a side dish in Paradise Lost. We are talking Human Lives have been destroyed by our inaction to remedy these failures to communicate effectively. and.. Jeeze, the weight of my responsibilities, as just plain John, being a/the Legos Man - for like the Family and everythings, get's me never forgetting, all we got are these words left dormant from the power they truly possess in the minds of the jack-asses. And.. here I am. I'm a Talker of Words looking to make a break in the NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches who openly advocate tyranny and oppression through mass murder of ourselves as the innocent left targeted defenseless. Enemies of Jews everywhere, the Zionist cares not for facts on who's Life it destroys for stolen gain by lying. That's why they target Jews, for fear the Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so,
why not demand the arrests of those who
broke the truce, and murdered innocent people
indiscriminately, on plans more Jews would
die for cash profit? Profit paid for by
zionist amerika? - the false imprisoning
torture and rape center for Neocon
Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

/ / This has been a central theme of the war in
Gaza: not that hundreds of innocent people were
killed, not that over 5,000 were horribly injured
and not the sky-high human and monetary cost of
wrecking homes or razing infrastructure. \ \

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival
-in-brussels/

"We believe there were dozens of IRGC
personnel in the Gaza Strip during the
war," an Israeli source said. "Some were
killed; others went into hiding, and
others escaped."

See? the demon enemy of God speaks no
evidence as a TRAITOR to every Jew. A terrorist
nation that still steals humanitarian aid in
our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Where are the Americans asking for the
formal arrest of Bush for high treason?
Whoring for Alex Jones's contempt for REAL
Justice? The ignorance of all American
talk radio hosts speaks for itself. NO
knowledge on why acts of high treason, are
crimes against every American. The bushmob
doctored the NIE, and Alex doesn't want
Americans to know, because if they did,
they ask, why does Alex do everything he
can to escape those personally responsible
for 911, while then asking for money to
continue his fight against freedom in

America. Again how much money do we have to
pay Ron Paul or Alex Jones before they
will allow the knowledge of the Iraq war
against Human will is criminal? How much?

Obama! feel free to call
on me to help out with a plan for judicial
actions. That offer goes out to everyone in
Palestine, Canada or Britain too. Russia,
let's help out these fools by freely
communicating, what say you? Justice
for all is freedom to be. The Israeli cop
killers must be brought to justice for war
crimes. Those cops, were cops. And I,
am a man.

Alex Jones Rocks!

Now Alex has problems in "my" mind because I am
an ACTUAL genius, and he is generally, an idiot.
Today, he did one of his usual commentaries, however
this time, he was pretty honest with himself, and
his love for Ron Paul. Ron Paul sells incompetence,
and Alex corrected correctly!. that a.. sorry Ron
but these banksters know they're robbing us as
undefended blind men essentially. That's what I'm
talking about!! Look, Ron Paul can be a dumb Ass,
although, he's still not all that bad a guy. A Dumb
guy on things like economics sure, Justice, warfare,
Health Care, Social Security, ect. ect. but still.,
like a child learning of why the sky is funny
blue, isn't all that bad a guy really. He's
certainly not a war criminal, like Bush or
Rumsfeld are. Doing 911 then sanctioning torture.
While Neocons Champion sending illiterate American
teens for death as war criminal. Think about it.
Maybe he is..

-

ï¿½We have all these documents that are now
publicly available that prove that these
methods of interrogation were intentionally
ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy
like Willie Brand "the right" to RANDOMLY kidnap
men, women, or children, and torture them to
death for sadistic pleasure with his faggot
Capt, Christopher Beiring. (I think that's
how it's spelt). But anyway, this is the truth.
A bushite is a godless Zionist whore of Nazi

evil, an enemy of America, who wars YOUR Freedom with criminal "excuses", for refusing to support the arrest of those responsible for 911. A TRAITOR, and could be wannabe rapist, robber, or 911 mastermind ringleader. Torture is illegal, and warrants the death sentence, according to, Reagan's "War Crimes Act". Some only suggest, that this was why someone tried to kill him as honorable. Death to the torturers of our innocent families, torture they do without apology as Zionist Military "Judges". Instead today, where they get salaries paid in the billions by the zionist giving nation of, a-mirror-kay, echem, America. Johnny's America. A nation where Justice will rule for the favors of all treated equitably with or without you. Honor me in company my friend. We have no rivals.

"they do not understand, the private banker never covers the loan. Never does a private banker reach into it's pocket to borrow US to begin with - so as a consequence, the bankers have just pocketed all the 'free' loot for nothing, TRILLIONS, and are not saying why should they help anyone else up with charity?" Then went on to say, it wasn't any of our business with what they did with the money. (But for to cover criminal fraud in the derivatives market, where the true value of said commodities were backed by ZERO capital. ZERO DOLLARS. WORTH NOTHING. So, think about who's truly giving it always here until Johnny, the man who came out of nowhere, arrived to explain everything in five or six minutes.

Support Johnny America for Coast to Coast Radio Host!

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Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoot-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen for death by war crimes trial more like. Death to the criminal zionist enemies of Humanity. Zionists who falsely accuse without evidence to respect our rights, like TV corporated Americans who treasonously LIE, 'bin Laden did 911'. Enemies of Freedom for our Humanity.

[JEWISH!] Arrest warrant: Ehud Barak
http://www.wanted.org.il/ehud_barak_en.htm

/ / For violations of the Rome Statute
& 4th Geneva Convention \ \

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..
let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our
times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for
'lawless' grunts of ungodly action against
Life as we live it. Targeting school kids
deserves death sentences, don't you think this
value is what every soldier should hold proud
with Johnny in America? In Israel? In

Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

This post was passed to near everyone in our Secret
Service defending Obama. Let US demand Justice for
the Victims of 911, by warranting for the arrest of
every Neocon Nazi Zionist pirate of OUR Jewish faith
for Public trial on LYING for War Crimes against
our dying Humanity. War Crimes against God.

A ZIONIST LIAR'S TRUCE

/ / live images of an Israeli helicopter hovering
above the city and dropping its white phosphorous
bombs on the city \ \

Again, the Zionist deserves to die by public trial
today to defend the Jewish faith. Look at usenet.
These demonic enemies go, 'yeah, Hamas broke the
truce', they do it to kill you. To steal the lives

of innocent Peoples to profit off our deaths as
victim.

Zionists are Satanic Demon Liars of Satan

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed
Jews for money. They starve Jews in Israel
to attract more charitable aid they can use
elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of
the Synagogue to Satan!!

"We also need a massive overhaul in Our news channel
prioritizing, including to add censorship free, open line
public communications. Done to gain value in learning from
the art of conversations. We need still to appreciate the
values of a free society where Justice is above all, the

measure of our success to communicate openly."

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and
still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

-

The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as
evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,
are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among

our brothers and sisters. I mean for Christ's sake Tom, THEY ADMIT to sadistically targeting our children for MURDER - as some kinda Satanic demon whore to Pure Evil - aka. Wanted War Criminals for Public Trial. Just as the Nazis were for similar outrages. Let's hope men of America are least half they were then, but we are suspecting, they will as of usual, balk as cowardly slaves to the private banker man ruling their minds, it's a, no wonder. Where is there that purpose striving for a greater future living in a just society? Where is the Christ in their Christianity? to financially support the arming of such unlawful Zionist killings in silence against Innocent Christians?

Free Radio International Broadcasts Alive!

Johnny Justice for Coast to Coast radio host.

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's verdict, if none is offered as in respect for yourself as worthy the title of free men? I ask as your self? Or are you as the cowards of most in the American military who refuse to speak for the arrest of those who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke the truce, and Israeli started this by stealing innocent peoples homes, then imprisoning ourselves, the victims, in a death camp for indiscriminate slaughter. While they continue to STEAL OUR CHARITY by breaking truces. What is it that YOU can't picture?

"The view from the other side, that the Qassams are a retaliation for the siege that starves the one and a half million inhabitants of the Gaza

Strip, [a prison death camp,] was not mentioned
at all."

Masada legend galvanises Israel
http://news.bbc.co.uk/2/hi/middle_east/7830416.stm

/ / they committed collective suicide - men killing
their own families, afterwards each other, until
one [evil zionist liar] remained to kill himself. \ \

ISRAELI IS A THIEF WHO CAN'T SPEAK OPENLY IN
DEFENSE OF OURSELVES IN OTHER WORDS? That is
right. They, as documented criminal, lose
every debate personally since before the dawn of
Civilization because their position is clearly
unsound. They are criminals who murder People
in hate for a freed Humanity. They OFFICIALLY
steal Peoples homes in that country didn't you
know they proudly proclaim it so? And steal
humanitarian aid from starving children.
Targeted to murder children specifically as
publicly confessed, 'it is Hamas WE blame',
not them as demonic child murderers. Hideously
evil as ungodly sadistic savages. Enemies of
YOU, enemies of them, and enemies of me, the
King of Jews Christ fellow from beyond the
grave. They are so evil to God and Man,
they tarnish everyone of US to not win justice
sooner by blaming the actual bad guys. Justice
is Freedom.

/ / Those white phosphorus shells used on the
Gazans are made in the USA according to Jane's
Defense. \ \

Again, these peoples are not Jews. Being
Jewish is a religion. These thieves of God
are Satanic in their LIES to betray the
common trust in our words, that bind all
worlds to victory, called freedom universal.
Even tales of the Devil have him keep his word,
with verses specifically condemning the self
to damnation for targeting the innocent for
death. God's the Word. Every word inside a
fool's paradise. Including the periods. Not as
like, I'm playing a word game, but that it in
wonder, is all strangely here. Example: The
Universe as it has existed always, is not
separate from our 'pauses', or faulty drawn
conclusions. The universe, in one sense, was
as good as anytime, created 6000 years ago.
AS TOO 50 billion. You say, impossible, I

say no, study quantum physics, and know, I
live this.. our existence is not scientifically
separate from the timeless nature of
consciousness, proven as not only theoretical,
but actual. That is a first step at developing
a REAL relationship with the living Universe
if you want to as like an artist does - that
TOO! can be just as thought static in it's
orderly constructions for Atheists. (An
Atheist is still mostly a fool here however.)
Overall, for any, it's sorta simple: Life has
left YOU in charge of YOUR fate. Now, do well
to make something of this being as eternal Life
reaching for balance, as your body does, and
good cops do when bringing the bushmobsters to
Justice. By Israeli calling for more murder
against the innocent of your mind as racists
and bigots they are openly, is still shadows
of YOUR mind, YOUR WORLD.. get it, got it? God
is in genius to set Life as this, as like,
nowhere existing, but for as yourself within.
Will you speak out for the Justice denied
Humanity?, or not you? Atheists can be Just
too!, but generally lose it on not
understanding the intelligence of order is
way beyond what they dream up with
assumptions. All anyone has to do is ask
themselves, who do you mean "God"? Atheists
are ridiculous!, but, to each his or her
own, we are on a path here, believe what
you want to believe. This is not a faith
initiative I'm bringing by keeping this real,
I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder
Jews around the world for stolen money is
seriously evil as criminal. What do you think?
Let US have a open line discussion on this
indivisible matter of rights to all as equals
before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM"
we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

ï¿½Main actions: Israel targets hospitals, United
Nations premises, Press offices, theaters and densely

populated buildings in west of Gaza. Additionally,
people are being used as human shieldsï¿½

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed
Jews by breaking truces with a prison death camp,
cause look at all the free American Welfare money
we can steal through kicking-back AIPAC members in
Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line
calls on the war crime enemy propagandist,
The Chorus Radio Network. CJOB STEALS millions
from Manitoba each year, and refuses all calls
for honesty in governing. They are actual
CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal
who will be going to prison, is the only person
on Earth that has publicly okayed Israeli Nazi
to target murder Christian school girls. Canada,
join me in demanding Harper's Public trial as a
war criminal. Prison for Harper who took a
honorable soldier who stated he refused to commit
war crimes against innocent civilians, and placed
him without trial in prison. Without warrant for
arrest. Harper, the Nazi Appeaser, is a War
Criminal standing against the Queen.

"Or is this another, popular amerikan past time,
of, who cares for the facts, we are at war with
God and Christ now?" Die bushite die Christ always
says against lawless torturers as mass murdering
thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest
of the Judge and prosecutor for being openly
evil demons, as TRUE enemies to freedom in
America. But guess what? Americans will refuse
to even phone Alex Jones, or George Noory
to be hung up on. Just refuse as brain dead

zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic
of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?
Like multi-millionaire Ron Paul, who gave the
fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the faggot owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty
International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting
to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.
They will rob and kill US all my INNOCENT friends

as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

Google have attacked US again as Evil doers..
They have again destroyed my writing with war
criminal intent to deny these truths as men they
could never face me, because they are not. They
STEAL our voices.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil
as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unb
alanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the
days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews
like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the
eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was
137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying

freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the
free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for

senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

-

I Want My Bailout Money by Michael Adams the Health Ranger
http://www.youtube.com/watch?v=dnT21hmlT4o

Breakdown Dead Ahead
http://www.youtube.com/watch?v=yFCnVC2C8As&feature=related

-

Simple Common Sense for Mankind

/ / Israel has admitted HAMAS kept the cease
fire; and that Israel broke it, then unleashed a
total starvation blockade on Gaza followed by
flaming death from the sky aimed at schools,
hospitals, ambulances, and children, and you
dare call the people opposed to such barbarity
a "mob?" \ \

Zionists are evil people who pretend they
are honest, when lying directly to everyone.
Blitzer reports Hammas broke the truce, he
is lying to continue the murder of innocent
peoples. Understand: Israeli Nazi state they
will continue to murder our innocent Humanity
until the rockets stop falling on Jews. Yet,
they broke the truce, and murder Jews routinely
with reckless abandon. Jews from the Bible as
of "nigger" Ethiopian, are what the Zionist
hate when warring GOD for apartheid, apartheid
that is Humanity in Gaza. A zionist is a war
criminal who speaks not against the neocon,
but against Innocent Humanity as YOUR enemy.

Livni: Gaza truce would give Hamas legitimacy

As they always do because they are dishonorable
murderous nazi thieves of God as Just cause is.
I am, and YOU are, you just maybe don't know it
yet, or if ever. A zionist serves Satan to escape
the neocon terrorists from their ungodly crimes
on 911.

http://desertpeace.wordpress.com/2009/01/12/gazatoon-of-the-day-blaming-the-victim/

Ron Paul:
US Will Be Rightly Blamed for Israeli Killings
http://www.youtube.com/watch?v=6C756NOPyDA

Not the Nazi Israeli?

The guilty party are those who advocate these
mass murderers of innocent peoples with
deliberate lies, like from Blitzer. Blitzer
will be tried, and executed a war criminal
for stating Hamas broke the truce., Where,
only two minutes earlier, he learned, that
it was his Nazi partners. DEATH SENTENCE.
It was on TV. BUT SEE? Ron Paul, the Libertarian,
ain't going to be honest here. He'll lie cheat
and steal Humanity's voice for Justice - like
he did with OUR money. A typical Libertarian
like Alex Jones who wants to blame "socialists",
"Liberals", aka, all of innocent America.
Blitzer is war criminal, who makes his own
discussions. As is Ron. What an enemy to not
mention the truce. THINK: IT IS THE ISSUE. But
Ron plays the dummy to kill more with contempt
for Freedom. Ron Paul, the bigot, asked,
'should we be doing this'? SEE? it's not first
degree mass murders, no, according to Ron Paul,
it's argumentative that indiscriminate mass
killing is a good thing really. Remember,
Ron Paul does not support arresting those
who committed mass murder on 911 either.
Or those who STOLE TRILLIONS. Or lawless Bush,
the ACTUAL AntiChrist enemy of God. Ron Paul
will watch America die for a stolen dollar.
And Alex Jones will refuse all calls to label
him good guy like himself warring order
to our universe for it.

Israel is [NOT?] responsible for these childrens death
http://uk.youtube.com/watch?v=Y9PIZQqIep4&feature=email

Ron Paul "When we pick sides, we make it worse"

He also took our millions donated for freedom
fighting away for his family, but not our own
as dying innocent victims giving. Pick a side.

Remember: Sadistic authoritarian George Noory
is a very real DEMON of Satan, who again,
openly tells US, he wants to murder our
species as the innocent forsaken, and Alex
Jones doesn't hear a problem with that
either. Love the bushite blindly, and
they'll kill US for a dollar sukka.

Alex Jones is like the retarded brother we
can't help but love because we're human. He
is still retarded. And George Noory is still
seriously evil as a traitor to the cause of
Freedom in America. And Ron Paul is still
slamming Ron Paul.

Ron Paul "Israel can not act without
Washington's approval"

So, it is Ron's fault then by not mentioning
the truce?, or as that, innocent People are being
indiscriminately murdered in a death camp that
he figures is argumentative? that innocent
People are dying as targeted for mass genocide?
Or is it the Ron who states YOU are to blame
instead of himself for being there, not saying
anything? HEY RON! Can you hear me now!

-

Contribute to our rise for the popular will

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they STEAL OUR
CHARITY. What is it that YOU can't picture?

Hi. My name is King Johnny.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

-

/ / The targeting of civilians, whether
by Hamas or Israel, is a war crime. \ \

They are targeted by Obama who suggests
there is an argument to be made here. There
isn't. Nazi Israeli DEMON LIARS broke the
truce to kill Jews for money. They are godless
enemies of Humanity. So it isn't that we are
pro-Palestinian, it is that we are pro-Human.
Zionists DESERVE to die, before US, the innocent,
they target for murder for stolen cash gain.
Like Obama has promised to do for AIPAC. But
what about the rest of US 6 billion plus Obama?
Who is it of US innocent folks do you wish to
MURDER, or torture next as a Zionist war criminal

for Satan Obama? Torturing kids is popular in
Israel, tell US Obama, which American father will
have his children tortured, or murdered
sadistically by yourself as a whore for Nazi
Israeli? tell us, we're not waiting.

The Chosen Bad Example

Zionists Destroy Our Homes as Satanic
http://www.youtube.com/watch?v=mo2HW4T7wK4&feature=related

When I see the women and her child, left outside
while they sadistically destroy her meager gains,
I grow weary with ourselves for not speaking right.
Nazi Israeli are committed to deny US our God given
rights as Innocent persons to speak freely for Justice
realized. All because they STEAL our Lives for monetary
gain. It is our reality, give it or take it, YOU LOSE.

Then.. Hammurabi founded Civilization.

I go concerned for any hesitations of condemnation by
Obama. It's like, he's talking some jive about
how now he'll NOT let the words of Hamas reach
his ears. Being against war criminals, doesn't make
you pro-Hamas, necessarily, it means your against
war crimes to defend the lives of ourselves respected.
Remember: He told US earlier during the campaign that
he wouldn't fear speaking to anyone, Hamas especially,
because he was confident he could win the discussion on
Liberty, by principles that unite all free men. Now,
he has promised the FBI's Most Wanted AIPAC, he will
pretend to not hear any calls for fairness as all
parties united by common cause. Johnny Who? Where did
you go Obama? You were here, then.. pooof! you
vanished into the loving shackles of convicted/ing
criminals is a mass, "WE ARE TRAITORS TO JUST CAUSE"
organized war crime outfit, dedicated to deceiving the
Public by lying. I am not Lying. I'm not saying I hold
his associations as a measure of himself, I am concerned
with him stating, he will not hear our cries for Justice,
as then AIPAC cheered. I was as freaked out about it as
you maybe yourself now, believing it as possible. Check it
out for yourself, and wonder, just "who" is this person
they tell us they're are going to take for as dying fools?
I mean look at what happened to what's his name, when he
sided similarly the same in error as hugely criminal? Come
on be honest with us son, "Are you on drugs?". Maybe he's
just been stressed with all of everything he is heaped
to follow on, NOT to know by Blitzer, that Israeli broke
the truce to kill more Jews for money, and, also STEAL
innocent Peoples Homes while saying, "they are God's

Chosen". Yeah, chosen for, "The Bad Example", of how
Jews are left undefended by these grave robbing war
criminal nazi forces. As the King of Jews, I call for
Public War Crimes trials of the entire bushmob as
terrorists, and their supporters for lawless tyranny.

People are Coming to Town. Justice for All Coast
to Coast radio broadcasts all, until we have secured
the neocons in a prison cell awaiting the treason trials.

We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

Nazi Israeli STEAL Peoples Homes without
apology, as a function of their SATANIC
government, while collectively bombing the
INNOCENT victims who die because of it.

Gaza 2009 - Operation Cast Lead
http://www.youtube.com/watch?v=hFEiOfLUfzY

Again, they are Satanic here because
they THREAT to tell you, yeah, Zionists
are casting the leads for the real mass
murder scenes - Justice denied Humanity.
God doesn't exist to defend yourselves
from war criminals for Satan.

War crimes trials with public executions
will commence against ever GUILTY zionist
living to lie that Hamas broke the truce,
that Georgia was attacked without provocation,
(again, CNN are not 'accidentally' conning
US here). And trials for every last living
bushite bomber, rapist, and torturer -
death to the bushite, the true traitors who
war against freedom for America, traitors who
war Innocent Humanity for the escape of the
neocon zionists.

-

Both parties cheerlead loudly for Israel's war Against Humanity
http://www.salon.com/opinion/greenwald/2009/01/08/israel/index.html

Death sentences MUST be willed by Christians for war crimes.
Death to the bushite, death to the enemies of God and Man.

-

For the Great Truths. We Stand United

/ / This option is also regarded
as a non-runner as the US would certainly veto that
suggestion. \ \

No no no no. What you do is investigate who this
the "US" person is as the GUILTY party my friends.
The facts have spoken for ourselves without contention.
And while we're at it, try to figure who that "Army
says.." person is too, we need to know who these
traitors are who hide their names backing war crimes
to continue. The Enemies of Civility, they are
enemies of US all my innocent friends, enemies of US
all.

white phosphorus shells on Gaza
http://www.youtube.com/watch?v=HPY2M6IxDRA&feature=related
listen to the inflection of voice near the end of this..
the mind of a delinquent 7 or 8 year old.. This phenomenon
is pervasive, and illustrates some cognizant short coming in
Calcium or Zinc somethings. However, IT IS THERE. Normally, as
an Expert on Psychiatry, I dismiss the whole notion of
Psychiatry as I intimately know it as pure bunk wacky,
however the study of something here is needed if we're
ever going to convince ourselves dying indiscriminately
this way sucks. As the innocent for profit we pay for,
with lies sold without Public defense of mass murdering
demon traitors to the cause of US falling victims. God
says their Satanic, I just say they are criminals. War
criminals easily convicted for murdering our loved families.
They have no remorse for all that have been murdered
already.. Livini should be on her knees begging our
forgiveness, but she's not because she couldn't care
less for any Jews, especially those she don't have
imprisoned under threat in Israeli 'society'.

It's a 'bad' thing. nnNo.

Israel bomb attack Gaza Civils Palestinians 27/12/2008 launches
missile attacks on 27 Dec 08
http://www.youtube.com/watch?v=tQLDBujnwEE&feature=related

This was what Israeli did as a legitimate murder
scene, committed after the Nazi Israeli Jew HATERS
broke the truce. More dead Jews, more money to be
rich with. and we'll blame it on that God nonsense.
We must demand war crimes trials from Obama, and
everyone else down there who is appalled at this
indiscriminate mass murder continuing in your name.
We need arrests of Zionist infiltrators within
the American military who have been shipping
weapons to nazi Israeli to murder more defenseless
innocent People as targeted. Obama must demand
death sentences against these ungodly Zionist

vermins for treason, warranting execution for the
war crimes of accessory to mass murder, or genocide.
For the Great Truths. We Stand United.

-

Here on a Mission

/ / after dropping leaflets warning residents it was
about to "escalate" its offensive against Hamas. \ \

SEE! This is AFTER fire bombing the whole community.
Satanic evil enemies of Life. Who admit to targeting
any one who has ever so much as swept our streets,
warranting bombs dropped on their Block(s). SEE! they
are ENEMIES OF EVERYONE. EVERY LAST ONE OF US.
INCLUDING GOD.

Riddle me Dumb

Hamas Workers and/or Troops? Out hiding in the mountains
of Afghanistan you mean right? Satanic enemies of all
Humanity I tell you. The most evil nazi sons-of-bitches
who openly advocate tyranny and oppression through mass
murder of ourselves as the innocent left targeted
defenseless. Enemies of Jews everywhere, the Zionist
cares not for facts on who's Life it destroys for stolen
gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.
It's a prison death camp, brought about by Israeli STEALING
OUR Homes as ungodly thieves. Thieves who leave a Jew
to starve to death in a garbage dump because, it'll
attract more charitable aid The Zionist can use
elsewhere. It's not a Jewish thing, it's a criminal
matter. They STEAL innocent Peoples Homes in that
country. God's Country? God would will such criminal
offense? Which God? Not the God of Abraham, nor by
the teachings of Hillel, Christ, Mohammad, or
Confusion? So which absent God do you speak where WE
can't speak as ourselves openly for Just Cause?
Cat got your tongue? How come your not saying anything?
The Israeli Zionist ENEMY wants US ALL in slave
labor prison death camps silenced away that's why!

Israeli War Crimes
http://bothwell.typepad.com/whos_your_nanny/2009/01/israeli-war-crimes.html

Well, maybe I'm wronger on Ron Paul than I needed to.
Hey, don't you EVER forget, I am a man also. We need
to meet on common grounds, to demand the start of
formal arrests for the bushmob crimes of 911, Iraq,
Afghanistan, South Osettia, and Palestine, as a group
together united by agreement for this one cause, and

then... we can later argue about how your ideas are
better than mine because I actually know of which
your speaking.. Hey! you could call me Daddio if you
wanted! To the telephones we go.

-

Israeli are attacking prisoners held criminally
in their own Death Camps!! GET ALEX JONES ON THIS!

Hmm... why wouldn't Alex? to support his fictions
over Our Rights to Live Free perhaps? A Hero adapting
to the deaths scene?, or, a Bush whore committed to
enslaving Humanity, all so he can say, he told US so.
Big hero or big hero. Your NOT powerless to his vision
of complete control over information. He refuses 911
info, Iraq war info, Israeli info. All so he doesn't
have to look the fool, while Humanity dies with his
insults against our wills to make something better
of ourselves. Justice is what I will. Masturbate on
your own time Mr. Alex Jones.

If he states again about how he knows everything,
and is always right, and those that criticize
him on ANYTHING are delusional, it's going about to
make everyone further sick with this obscene take on
what life means as Alex takes it. If I truly state
two nickels make a dime, does that mean therefor
they make a quarter also? If I say so like Alex
would? He is an idiot. Truly. George Noory figures
Hamas broke the truce, and that the Mideast solution
is that Jews should be separated with special rights,
as oppressors over the freedom of every Palestinian
Prisoner, and what's Alex Jones gonna say about
his 'truth telling freedom fighter' George to actual
'lame ass evil nazi traitor' George?, to YOU about
how George is just trying to murder millions of
helpless people as an offer for the final solution?
We can expect Alex now to claim, Zionists should
have special rights over Jews, all to maintain
his FICTIONS on Noory being anything but the
monster to Humanity he is. Just because Noory
doesn't growl when talking about murdering all
children in around the age of 15, or against
soldiers who refuse criminal orders, does still
make him a true fascist nazi enemy laughing at
your murderers escaping to live freedom in
our dying forsaken worlds. The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know

these FACTS that demands arrests of the culprits responsible for high treason against Johnny's America. Now, who's with yourself. I am! I am! I am!

Alex Jones doesn't know squat of Social Security, but pretends he does, like Ron Paul does when speaking of the Federal Reserve, Health Care, IMF, World Bank blahblahblah.. I mean even the expert of experts Alex has on near twice a week, EVERY WEEK, to talk all about how the Illuminati are doing everything,(give me your money now for whatever), DOESN'T SAY TO KNOW, it was Chris Cox who changed Investment Banker rules, to cover instead one tenth of WORLD INCOME loans, to one twentieth. MORE THAN DOUBLING THE ENTIRE GLOBAL MARKET FOR LOOTING WITH HIS SIGNATURE! (And. that isn't even a fifth of the TRUE trillions dollar fraud story.!) Now, granted, I wouldn't expect one tenth of one percent of America to have even a distant clue of which I am speaking, but importantly, Alex's expert of experts has never mentioned it. EVER. Why? He don't give a fuck, but how much money he can get you to give him for investing in things that are un-important to our struggles, but for the fact, he states, you'll get free money for nothing!! OUR ACTUAL PROBLEM. It reminds me of those Ron Paul dollars... where Ron'll fix everything, cause we, as a private company, are going to make YOUR money instead... holy fuk mon.. Talk about the kettle calling American racists. Thank God the FBI stepped in. (The answer unfortunately is not nowhere as easy as Alex would blindly lead you) - again, so I guess it will be, Americans were just too far gone as illiterate chauvinists, who cared too little for your freedom as themselves degenerating. Why? To battle tyranny they knew not Justice wins the day, and blamed innocent groups gathered wherever, instead of following the crime scene leads at the real murder scenes - like was once done on TV and at the Movies. But even that was too far above their doped down heads, to raise their finger to dial a phone number.

How about stating "A lawless bushite enemy wars America as a traitor, to escape the neocons from the crimes of 911."

Then Alex states the head of GCN is giving out gold at less than it's value as a special treat, every second or third week. Below wholesale. Now, really think this thru. Do you think Alex is trying to con you here? you bet. That is the Gold Racket. Diamonds are another thing - where I've personally seen, about a decade ago, a huge press that makes Diamonds

out of coal. Swear to God it's true. Costs to make diamonds are pennies to the thousands paid to Zionists who live in Israel calling for the murder of all innocent Peoples. Where is the rich Zionist, grave robbing Jew hater to demand Justice for our times? Where? Pressing coal into diamonds, while advocating the murder of our entire Human species. THEY WANT TO KILL GOD AS SATANIC ENEMIES OF LIFE. While I am last known to Life's enemies as Jesus Christ, the Zionist's end every time. I'll have brought more Zionists to their rightful dooms, than any other, of any time, anywhere. I HATE Zionist bushite LIARS to death, all because I Love Humanity too much, to watch US die undefended as the innocent forsaken. They can change their evil ways, but till now, often not, benefiting off our suffering as war criminals who simply lie as demons to steal our Human values. Let's change this for our betterments. I mean the Halo is a dead give away..

The head of GCN has a son warring God to rape American women as lawless enemy in Iraq for the Neocon - again NEVER mentioned as something worth fighting against for Freedom in America - soldiers are suppose to REFUSE criminal orders - but not when Alex is at the mike. He will never mention the Bushmob doctoring the NIE to con America for death as exampled, because it doesn't fit his fictions, where all the bad guys escape because they are geniuses headed by secrets so powerful, nobody can ever know'em, except Alex. He tells us near every day, he knows everything already, and is never wrong, therefore you can't criticize him. Bullshit. It's like he wants to be wise like Johnny Gawd is, without doing anything like studying for a test where the teacher actually does know the issues. He told US today, the British came up with concentration camps, from the Indians - who spent all their lives murdering themselves. The British 'invented' false imprisonment? The British came up with the, Jews Killed Jesus? The British invented Pope Gregory VII? I suppose Alex has never heard of Ghettos. SEE? he just pulls shit out of his ass, and calls it like it's truly pure gold you'd wanna buy. Those, like your typical American have no clues, so they figure, Life must be sorta so that History is all one big Alex Jones NWO cartoon. What? that the NWO did 911, and everything else that use to instead, require criminal investigations to nab the actual evil doers? Alex Jones IS the NWO he tells US all we should be concerned about never stopping,

like it was in the DARK AGES. Justice Alex, why is
that hard for you as a "Conservative" to figure? Is
it because you are cowardly in the face of true
Liberty? Afraid that some People, on some Issues,
ACTUALLY know a great deal better than you could
even imagine presently? Don't like that do you?, where
you don't rule this Universe as a lawless tyrant
desperate to live in an illusion at the expense of
everyone else dying victims to censorship? Does he try
to find wise men or women? rarely. "Ron Paul [MUST]
leads our truth movement" - like, fuck off already
with the Ron Paul, The Truther, Bullshit Alex Jones.
1% is what YOU get on Social Security deposits - 1%.
And.. Bush stole 700 billion. 700. Billion. That's 700
BILLION. It's a "Trust" account. A "Trust" Account. It's
being held in "Trust" Alex. Ron Paul is asleep at the
wheel. As, so are the rest of all you other fools..
I want Justice, and I want it now for all the victims
of 911. Americans be damned, we want Justice, and We
want it Now.

In Texas, child rapists are given the right to
freely move about without fear that Texans will stand
as armed Men in defense of their very own offspring.
And Alex wants this for the rest of America. That some
how to own a gun, means an American would kill a cop
who beat a women near to death for pleasures that
he could never be Publicly arrested for, as a
sadistically evil nazi bushite fuck. Look, if YOU DID
kill that particular DEMON COP after the Chief
refused to arrest him, you couldn't possibly go to
jail in Johnny's America, because the truth would win
out in a fair verdict. And REAL cops would honor you
with great big, thank you. Nothing worse than a
cop (or bushite grunter) who believes the Law doesn't
apply to him while he drives drunk, tazers someone for
nothing, abuses Women, or kids, to sell drugs, or
kills good cops, who are good men. (Like mercs do in
Iraq officially for Rumsfeld's P2OG. Coming to an
American city near you!)

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

"Rice says it is 'hard' for Israel to spare civilians in Gaza"

We KNOW they are ONLY targeting innocent People,
the ungodly zionist Satanic enemies say so..

"Israel Rejected Hamas Cease-Fire Offer in December"

Livni has declared her country "is not going to show restraint"

"Her" country?

It's like she's admitting here, that they DO NOT
target the IDF's Hamas, but only our innocent lives
as a threat to LIFE and GOD. Remember: the Zionist
LIARS broke the truce.

THIS NAZI ZIONIST FUCK BREATHES THE AIR OF US
http://www.youtube.com/watch?v=lMxfEsooM5M&NR=1

/ / So, Hamas decides it's time to end the
cease fire and has begun shelling Israel again. \ \

This guy even sounds like the Satanic false
accusing enemy of God he is. Let US, as Humanity,
hunt these real devils down, try them, and have
them executed publicly for the benefit of God and
Man. Understand: this REAL DEMON knows he's lying,
no living man on Earth could spew the vile lies he
does to excuse indiscriminate mass murder, or starvation,
as this Zionist enemy of life sells to STEAL Your
HOME, your Family, YOUR LIFE. An open enemy of God
trying to STEAL the Title of Jew from Christ. EVIL
ENEMY OF LIFE. See, when a bushite dies, you served
Life well in defending their next INNOCENT target.
BILL HIM FOR STATING ISRAEL WAS STRUCK THOUSANDS OF
TIMES. BILL HIM FOR STATING HAMAS BROKE THE TRUCE.
BILL HIM FOR STATING bin Laden DID 911. BILL ANY
Zionist FOR THIS TREASONOUS LIE. Why God asks? Because
there isn't any evidence to support that Satanic lie.
According to the FBI. And according to God, Zionists
are not Jews, but of Satan as enemies of every life
form in this Galaxy, Hunt him down, and bill him
today for the love of God. You can 'hear' it in his
voice.. how he lies TO YOU as a DEMON of a Hatred
for Truth and Humanity. Facts, that are easily
available, are not what he works to mislead others,
others he hates, and wishes to murder for as ungodly
sadistic pleasures as YOUR enemy. Bill him under
American law for being pro-torture too while we're
at it. Death to bushite, death to the murdering
enemies of God's Love for Mankind, and enemies of
TRUE Justice for Americans. The fuking demon enemy
lies to you, as a con to STEAL your life, or just
as soon, the life of another innocent other. Now,
what are you going to do about it? Except his lies
as exceptable, as he tries his hardest blatantly
LYING to kill God and Justice in our Worlds? Not
in mine, but perhaps Yours.

' In Civil-Contempt Cases, Jail Time Can
Stretch On for Years for Americans, without Ever
seeing a day in Court. '

Where are the arrests?, then firing squads for
the Judges who 'judged' such criminality against
freedom for US, the Peoples in America?

' Where Did Taxpayer Money Go? Panel Slams Treasury
[FOR STILL REFUSING TO SAY] '

Where are the arrests?, they stole eight trillion
and counting.. And Congress 'slams' them for
disappearing OUR MONEY. Slams with what?, a,
don't do that again please butt sqeeze? It should
be massive slammer time, with a return of all
STOLEN monies.

' THEREFORE, those pro-Israel politicians in Congress
won their seats in part using stolen money. '

Where are the arrests? Amerikan bushite nazi grunts
are assisting in the mass murder of innocent Christians
in Palestine. War crimes demanding death sentences. It
isn't an argument that can be turned around. Nazi Israeli
STEAL Peoples Homes without apology, as a function of
their SATANIC government, while colectively bombing the
INNOCENT victims who die because of it. It's a prison
camp! they are denied water, food, shelter.. since four
or five truces over that they've broken, every one. These
are Satanic enemies, willing War Crimes against God,
a God NOT loved by zionist American Nazis. And a Son
as powerful as the four winds, ridiculed by Zionists,
and American know nothings, for the continued debasement
of YOUR soul worth here dying.

Israel Attacks Iran News Station

Why does not Iran DEMAND arrests, and death sentences
for these blatant war crimes against Humanity committed
by Amerikan Nazi Israeli Zionists? Along with the
perpetrators of 911? WHYWHYWHYWHY. Russians! Can you
help US out?

-

THE NAZIS SHELLED THE HOUSE WHERE THEY HELD
INNOCENT CHRISTIAN PRISONERS
http://uruknet.info/?p=m50596&hd=&size=1&l=e

Rise up for Justice American Christian, or
die innocent victim the Son of God does say.

-

Pictures of Alex Jones masturbating
"we were right about it all."

It's the NWO! The Illuminati! Not Bush, Cheney, Neocons Gone Wild, or any of many other REAL criminals, for the war criminals are just puppets to his EVIL fictions. Forget about Bush escaping.. Socialists who design traffic lights, and Liberals who will to share fairly are Alex's enemy, because he's fearful the FACTS would escape his denouncements against truth tellers. George Noory, one of the most despicable individuals on the face of our great Earth - is exactly the kinda guy he wants returned to send his wannabe Patriots nowhere but to die. What about Justice America? The bushmob doctored the NIE. TREASON. There is video of iron flowing like water from the towers, seconds prior to the collapse. Alex ain't there to help US, for that is where TRUE Patriots fight for real Justice. When WE phone with indisputable facts, on Ron Paul the bush whore sell-out for example, he lies to all (GOD), then hangs up on US. Is that the kinda freedom you think the Founding Fathers had in mind to give Your rights to speak for Alex who blames anyone but the criminals directly responsible for your funeral? The private banker never covers our loans, so why give them trillions without questions offered without answered as, never mentioned by the guy who is 'right all along on everything under the sun', and.. he 'rules the Ocean of truth' too don't you know YOU have a steak going all rotten to hell here also? You'd think Alex would take our call just for the challenge on where we stand? I'm free!

He is not. And George Noory tells us openly, he's into killing innocent kids for profit. George's profit is that apparently, by murdering all children in around the age of 15, will stop them from getting a clue at anytime in the future, to take him out as an ENEMY of EVERYONE for censoring our cries for Justice. Why is it that Alex would invite obstructionist, Steve Quail, or Alan Watt, on to lead you nowhere while they jerk off, but where we gotta go to actually defend ourselves? Steve has been on with Noory more than a hundred times, and, we'd figure, Alex will soon be delving into the Alien questions also. Answerable by me in seconds, but ahhh.. like Noory, doesn't want the truth of such a subject uttered,

just endless streams of illiterate bushite dumfuk
losers sucking on each other. While they wrest
from US the wonder; just why we can't stop
criminals from robbing ourselves, while murdering
our families? Alex wants to blame the unstoppable
NWO, while I, want to blame those actually
responsible, like Bush and the proven treasonous,
Neocon terorist liars who are pro-torture.
With arrest warrants. All of them. I'll do it for
Reagan's, War Crimes Act, as an act of respect
for my Great America, that's isn't always been
dying dead wrong under the leaderships of
criminals.

Israel hits Gaza after UN truce resolution

/ / AP Israel and Hamas responded to a UN peace
demand by hammering away at each other with bombs \ \

The IDF's Hamas is hammering away with what at who?
Is the AP referring to the tin can rockets that
travel usually several miles, but in one case,
22 miles? To kill a Jew standing outside in his
yard, thinking on how he would defeat true evil in
his time? Tin can rockets that contain no explosive
charge? Have no mistake, if it hits you in the head,
your dead, but really, what do you think the odds
are on that? E=mcï¿½. Or is this another, amerikan
past time, of, who cares for the facts, we are at
war with God and Christ now? Joe is an American Zionist
"Plumber", who has amassed a multi-million dollar
fortune in the competitive industry by shit eating.
Every bushite death is a mercy given to God in defense
of all that is right and Just in this Universe. A
lawless bushite enemy wars America as a traitor to
escape the neocons from the crimes of 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Now or Never - One Peoples Rise to Power

J. Wizard "The fact that Bush gave you zero evidence can not be
denied"

http://cleveland.indymedia.org/uploads/2008/03/now-or-never.mp3
http://baltimore.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/03/now-or-never.mp3
http://newmexico.indymedia.org/uploads/2008/03/now-or-never.mp3
https://israel.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://www.indybay.org/uploads/2008/03/17/now-or-never.mp3
http://la.indymedia.org/uploads/2008/03/now-or-never.mp3

http://neworleans.media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://indymedia.nl/media/2008/03//50997.mp3
http://newjersey.indymedia.org/media/2008/03//20791.mp3
http://boston.indymedia.org/usermedia/audio/11/Now-or-Never.mp3
http://houston.indymedia.org/uploads/2008/02/now-or-never.mp3
http://imctj.espora.org/uploads/2008/02/now-or-never.mp3
http://argentina.indymedia.org/uploads/2008/03/now-or-never.mp3
http://canarias.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://istanbul.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indymedia.ie/attachments/feb2008/nowornever.mp3
http://media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://www.stlimc.org/usermedia/audio/10/now-or-never.mp3
http://peru.indymedia.org/uploads/2008/02/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indybay.org/uploads/2008/02/13/now-or-never.mp3
http://imctj.espora.org/uploads/2008/03/now-or-never.mp3

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Traitors to the Cause

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

UN: Israel Admits Claims About Attacked School Baseless

US military re-supplying Israel with ammunition through Greece

House and Senate Compete To See Who Can be Most Pro-Israel

This warrants the Death Sentence to Republicans
who have committed America to these war crimes
- DEATH SENTENCES. Christ DEMANDS these trials
to start tonight on America's Coast to Coast
radio program. It's called first degree mass
murder.

Israel broke the truce on Nov. 4th, yet state they
will continue to murder Humanity indiscriminately
until a truce can be found that they will break,
as always, Being the Satanic enemies of God and Man
according to the Bible:

The Bible "I know the blasphemy of them which say
they are Jews, and are not, but are the synagogue of
Satan."

/ / UN Call for investigation into shelling of
Civilian shelter \ \

Investigate that evil does exist in the thieving
LIAR name of godless Zionism? The enemies of God
and Jews everywhere?

-

Freedom Granted by Americans for Neocon Liberators

"Americans are having their heads velcroed to chairs
and forced to take in nutritional supplements by a
tube forcibly inserted through their noses by US guards."

These are People not charged with any criminal
offense don't forget. Die bushite die you know is
what I recommend, as does Reagan. A dead bushite
means you've saved the life of their next victim,
an Innocent Human Being guilty of no crimes. The
war criminal enemy is the bushite, the Zionist,
the LIAR neocon traitor to Life as this Universe,
along with every dumfuk grunt who serves tyranny
for the bushmob at Guantanamo, Iraq, or Afghanistan.
It is a soldier's oath to obey lawful orders only,
but Cheney they don't take out with American Law -
how come? cowardly fascist nazi whores for Zionism's
evil as the ungodly that's why. Cowards dying for
the escape of the Neocons from the 911 scene as
reported publicly. - Vs. US. That's we whoever
you are.

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever. The neoCON LIARS are the LIARS conning
you here on our TVs and Radio dramas, in where, they
don't want to openly take our public calls for real
Justice. Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression. So,
them being "puppets" is even all the reason more to
insist in their capture for trial by Jury. A Public
Jury of our Peers. Now, who's in with You? You can
count me in. and I bet willed to action, we will find
others to be something of ourselves too.. Justice
and Liberty for All. Equal rights given is what true
freedom is as measured. Translated from the 'Alien'
dialectic to Amereeze jank vibe; where is the fucking
evidence here Neocon traitors who false accuse to lead
us off the straight and narrow? It leads to Bush,
Cheney, Rumsfeld, and Condi that's why I figure, you
figure, they figure, we figure, so... what are WE
going to do about this sacrificing for godless tyranny
further then as unrepresented?

Gaza Mosque Struck as Targeted by Israel Air Force 1 Jan. 2009
(Why so you may wonder they've had this string going
now where a secondary something, then there! that proves
something absolutely apparently, without the intellect
to fairly judge anything, particularly themselves honestly
as dishonorable thieves and murderers, targeting prisoners
held hostage to their own camps. Death camps. Nazis are
they.

Humans for Coast to Coast Radio Hosts as Frequent
contributers to the mention of Justice by name. Your
Rights, Your Word, Your Future, Your Life, This World.
Join me in proclaiming victory over the enslavement
of Humanity, through Justice realized as practiced.

If Americans Knew What Israel Is Doing! VIDEO WAS CENSORED!
http://www.youtube.com/watch?v=ynWjYHP91gA&feature=channel

Views: 1,212,890

Israel Facts the Media Isn't Telling You
http://www.youtube.com/watch?v=QKq38COoTG8&feature=related

Views: 358,960

Maybe we know it, but we just don't know it yet?

-

Israel Attacks Jews,
Silence from Mainstream about Violation of Law
http://www.youtube.com/watch?v=K1kt8qi0M-M

They kill Jews for money. They bombed Jews in Lebanon
for money. They want to bomb the HUGE sacred Jewish
communities in Iran.. wonder why? Zionists are not
Jews, for Jews don't steal in God's good name. Nor
target innocent beings for stolen gains. A zionist is
a thief to life, and as such, needs to be formally
charged for their criminal offenses, given lawyers,
and upon a successful prosecution, rot in a prison
cell and/or pay restitutions. YES. why? so not another
innocent person must fall in their place as next
victim to a zionist's public commitment to lawless
tyranny for evil intentions.

Johnny for Coast to Coast Radio Host

-

Israel Phones 'Terrorists' Before they Bomb Homes
http://www.youtube.com/watch?v=K5wrwZlwAq8&feature=channel

Didn't the Nazis say something like, they weren't
there to take out Hamas directly? Well, after all,

it was founded by the Zionist IDF, so I guess that
must be why they target our children instead..

UN: "Israel knew they were bombing a school"
http://uk.youtube.com/watch?v=uWP0GU0wVSk

/ / The hospital, and other smaller hospitals and
clinics were previously shelled by the Israeli
warplanes and tanks, stressed Hassanein. He
also denied Israeli claims that medicine and
medical supplies had arrived to Gaza hospitals. \ \

The Zionist is a thief of Life as our enemy.

IDF VLOG UPDATE: IDF Hits Dozens of Hamas Terrorists
- Capt. Benjamin Rutland - 4 Jan. 2009
http://www.youtube.com/watch?v=q9Jt-pV5wuM&feature=related

This Zionist enemy of God speaks like a six year old.
"Hamas Terrorists", "4. Jan.", come on now, how evil
do you have to be to believe this ungodly demon sells
you righteousness. They STEAL our food. They are OUR
criminal enemies who torture innocent Peoples. A
godless criminal enemy who also steals Peoples Homes.
And drops millions of land mines to murder Jews
indiscriminately for decades. Commits war crime after
war crime against Humanity. Vile bile.

They killed our innocents, and unless we kill
theirs, they will go on killing ours.ï¿½

It is the crime of which they demand WE are outraged
against. Welcome to Humanity's suffering world due to
lacking communications skill. The term "they" are
referring to is YOU. Your innocent life Israeli
intend TO STEAL, TO MURDER, TO ROB YOU Your rights
here granted by God. These are ungodly acts of mass
murder, perpetrated by enemies of Life. They targeted
a UN Girl School for Christ's sakes. please fight back
by supporting my calls for open international dialog.
Justice must win our Freedoms back, for there is no
other lazy TV'ed ass, pop a pill to make it all go
away, plan 'b'. Look at me! I'm not crazhey! We can
handle this no prob.. I'm a perfect King for these
times of wonder and horror. equal rights are found
through open communications for a measured Justice
we do contain. Evil is the deceived disguised. And
i am a god... on a mission.. Ladies?

-

The Appropriate Response To Islamic Terror
http://revisionistreview.blogspot.com/2008/12/judaic-columnist-urges-kill-muslims.html

/ / an Orthodox Jewish Russian immigrant \ \

Let US never forget, the Zionists also would bomb
some locations, then later, drop the warnings
for the Jews to run for their lives. Didn't warn
them though if they get into a car or truck they would
be destroyed instantly by the Zionist flying the
America paid for Apache. I did a big show of shows
through that continued as, more 'un-resolved' crime
scenes perpetrated by the treasonous, neocon Zionist
terror merchants. It's like they think some dying
fools are going to keep going to save'em in the end
from ourselves as still suffering in Justice denied
as enslaving into ungodly tyranny eh? These Zionists
are not only the bad guys, but they're bad guys to
even the bad guys as there is no found honor among
murderous thieves. A Zionist will kill a Zionist for
a stolen nickel, as do bushites today. Hey! it's only
Your Life in the balance. Or are you one of those
who goes in America, it's okay, we're only murdering
innocent folks who don't live in Israel.

Doing what's right and just, or evil as dumb is
Your riddle. Get back to US on that.

We need People are Equals Power!

President and CEO of Shareware Earth Co.
King Johnny Wizard at your service me Lord.

-

/ / It is just unacceptable to apply two standards of
morality, one for Jews and another for non-Jews.
For if what Israel is doing in Gaza is right, as
Israel and her supporters maintain, then what the
Nazis did in Europe several decades ago must have
been right as well. And vice versa. \ \

The ungodly zionist enemies, are enemies of
God and Man. Don't think the NAZI Zionist like
Bolton doesn't know this, with his friends at
FoxNews.They WANT to rape, murder, and pillage
America all her freedoms for the bounties of
private banker frauds. The banker does not
ever cover our loans, we do. So, why give them
trillions of American worker waged dollars for
nothing?. THEY DON'T COVER LOANS. See? that is
what this war against God is all about. People
of Humanity just seem to truly hate a guy like
US as wise and Just. See, people hate US, because
they can't for their lives disagree with Facts.
Why won't YOU support these same rights and

champion our demands for open communications.
Johnny for Coast to Coast radio host.

US Again Stops UN Call for Gaza Truce

Who is this the "US" person?, and let's
put him to death with Bolton and Kalilazad
for the most serious of war crimes against
OUR Humanity. Remember, Bolton was NEVER
confirmed because, the Zionist could find
no man or woman to say a single kind thing
about him. FACT.

CNN: The Nazis Broke The Ceasefire!
http://www.youtube.com/watch?v=KntmpoRXFX4

Protest pictures from around the world (not on CNN)
http://www.rys2sense.com/anti-neocons/viewtopic.php?f=11&t=16496&start=0

Remember Israeli nazis to this day, insist as
DEMONIC LIARS, Hamas broke the truce - as Hamas
is responsible when they target school girls for
slaughter. They said the UN were secretly attacking
Jews, clearly a LIE as impossible to prove because
it didn't happen. But facts are the furthest thing
away from the godless false accuser Zionist con man
or demon witch LIAR like Livini. FoxNews calls the
demon witch a Jew! ANTISEMITES.

We can witness, Americans do not have the intellect
to understand what this means. See, LIAR Nazi Israeli
broke the truce to get killed Jews for money. A
regular fair for Nazi Israeli. Now, they state they
will continue to indiscriminately murder humanity
until the tin can rockets that travel miles stop
killing Jews who hate Zionists. But importantly,
it is Israel that wants Jews to die, so they can
make off as Satanic with our stolen values. Just
like the Bush family did with Hitler, that the
Nazi Nation has no probs working gun in hand to
wipe out Jews everywhere still to this day. Again,
Nazi Israeli MURDERED JEWS in Lebanon as targeted.
And leave Jews to starve to Death in Israel for
more charitable aid they can use elsewhere. Public
knowledge not disputed by any living soul on this
planet because, the Zionist government admits freely
to this. Israeli think being Satanic is worth it,
for all the money and lives they can steal as enemies
to Christ, Hillel, Mohammad, YOU, blahblahblah.

And, as demonic thieves, they steal homes from
innocent god loving folks. US. But see the McCainiac

HATES you as being a virtuous man or women, so they call for more indiscriminate carnage against Humanity, on failed hopes, that we as God are not going to come down to hunt them to the ends of this earth, try them, and have them executed for the war crimes of Torture, Rape, and mass murders committed for the neocons escape of 911.

Joe the Plumber to cover Gaza op

/ / Wurzelbacher says he'll spend 10 days covering the fighting and explaining why Israeli forces are mounting attacks against Hamas. \ \

Don't want an intellectual who might have a clue of what is transpiring with the forces of Satan, fuk, CNN'll likely hire him also. Don't you just hate this treasonous lying nazi demon? He has no journey man's license, never did, isn't a plumber, and doesn't have the millions of dollars he claimed he did to purchase a company that would have rolled over 250,000.00 a year for himself alone plumbing. Plumbers, as good as the job is, never generate that kind of money. Who cares though, right? A Nazi liar is what Zionist's want, and that is what America gets. TV'ed Americans couldn't care much less. Evil nazi McCainiac who's sworn existence, is to con teen soldiers for death to raise the fortunes on the un-elected Neocon bushmobsters now fancies himself a teacher on the struggles against evil. It's like that faggot at anotheruntoldstory.com, who's into murdering innocent Gays, while fucking his own brothers up the ass, who runs ads everyday at GCN, tells US now, all about how evil we all are for demanding Justice. How long do you think that'll run with the Alex Jones towners still raising no concerns? It's for the money as Ron Paul would say.. Again, it is to divide ourselves from true liberty, by demonizing the innocent on our radio and tv channels. Instead of Bush, Cheney, Rumsfeld, and Condi.

http://www.liveleak.com/view?i=ab0_1231290043

http://www.kuwaittimes.net/upload/img_pict/headline9637e7.jpg

Read of the bushite in my America who call this work of Satanic enemies, a good thing they support to war terrorism for the sadistically evil liars of the neocon. Then KNOW my friends, a bushite is the enemy of every living soul on this planet. Have no love for those in the Air Force, the enemies of Man who bomb our families without excuse, but to know, they hate

US as Christ to speak free for Humanity. That DEMON George Noory was so happy last night about all the good the bankers AND CHENEY are doing for their hatred they spoke of for all Russians. SEE? not to protect America, but to kill you with their true commitment to the demonization of innocent people, all to escape the neocon terrorists. I HATE George Noory more than anyone alive in America. He is so openly evil to ourselves, that only those who wished to lie to you, (like Alex Jones does about Ron Paul), would say otherwise as bushite dumfuk enemies. Cowards committed to escaping Bush and Cheney for treason against Freedom. They doctored the NIE on Iraq, highest of war criminality. Alex Jones has never mentioned it, but for MAYBE in passing. Hey because all the bad guys are just puppets to ignore over the elites, globalists, socialists, liberals, gays maybe, Blacks, Mexicans, and anybody else smarter than NWOer Alex. Ron Paul is a coward as rarely if never has a clue of which he is speaking on.

Israeli PM says to end offensive if Gaza ends rocket attacks

Sarkozy urges Syria to press Hamas for Gaza truce

How does the ungodly get away with this obscenity? Nobody can deny Nazi Israeli broke the truce, as they always have done as Satanic for the last 60 years. Killing Jews for money is popular with the Zionist Nazis don't you know us by now? FoxNews CONNED Americans for DEATH with the unmentioned, TREASONOUS doctoring of the NIE. To kill Americans for more neocon gains, which Alex Jones never mentions either. Do Americans even care enough to raise Humanity's call? Do they demand public executions of sadistic godless Zionist torturers? as the Standing Law of America - The War Crimes Act - brought to be by Reagan - DEMANDS by the Law of America? It is the Law after all, yet, CNN, CBC, and FoxNews calls the perpetrators of the most heinous evil against Mankind, heroes. America is
a nation of godless cowards willing to die murdering innocent Christians in Israel, all for the profits of the 'magical' zionistic private bankers. Bushite grunts are now supporting the indiscriminate carnage, serving as police services forbidding any of the prisoners in Gaza from fleeing the indiscriminate slaughter. Again, as Satanic, they don't arrest the "Suspects", for what could they truly charge them with?, no instead demand we die helpless murder victims by forbidding escape, as they did in Fallujah murdering more than three hundred thousand innocent

souls. Die bushite die screams to all men on Earth from the Son of God. Will you stand for YOUR life as truly worth something here? Like lawless enemies Policing your reality will bring you more happiness and prosperity with the great truth teller HAPPY George Noory? The demon who openly confesses the will to want to murder all children in around the age of 15? Too crazy for you to face such an enemy of huge demonic origin, so, go the cowardly way like Alex Jones as sell out slave instead, to cover the demon with endless praise on his treachery to not have our fight on everyday with open calls for understanding Justice is freedom. Instead of a constant stream of bushite dumfuk enemies of Living. This isn't complicated. Or it doesn't have to be.

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce.

Alex Jones told US as a deceiver, he's been on Coast to Coast a hundred times. Not in these last eight years he hasn't. I demand Alex prove this, or be known by all far and wide a treasonous liar, trying to take US off the tracking of criminal action of his buddy, the demonic enemy LIAR George Noory. bin Laden didn't do 911, despite the facts that WE KNOW George Noory knows better of but LIES to con the American teen further for death at the profits of the un-elected bushmob. See Alex wants you to blame anyone but those directly involved in the crimes of 911, or Iraq, or those responsible for it's cover-up by Zionist propaganda. George Noory will have as invited guests whos only function there is to spread dis info as supporting more indiscriminate warfare for the escape of the neocon terrorists responsible for starting the illegal wars to begin US at. Or those whom often support torture, a war crime that only exists as irrationally held by those who's minds have only a blind hate for the indivisible rights of another innocent other. And often truly hate men and women for being Just as wise. The McCainiac Zombie video is a perfect example. When the Zombie is asked about the rights of Women, the McCainiac Zombie cried out for raping more Women. The position of authoritarian power, was only found with the bushite as oppressor, rapist, torturer, or Air Force Bomber, not liberation by freedom. The bushite McCainiac KNOWS it can't compete

openly to defend it's criminal treasonous
actions! Remember, Alex "the Conservative"
thought McCain was the choice if you had to make
one, earlier on, then changed his position,
sort of, later by calling them all puppets not
worth the effort, but .. Obama's idea's matter
not, it's that his Birth Certificate is, no war
too be fawned. Palin? who's she? McCain
firebombed Vietnam as "war hero" for France?
The Banker doesn't cover our loans? Matters
little.

Norwegian doctor: Israel intentionally targeting civilians
http://rawstory.com/news/2008/Norwegian_doctor_in_Gaza_Israel_targeting_0105.html

"All that is happening in Gaza here now is against
international law, it is against humanity and I
think it is against what it means to be a decent
person. You don't treat other people like this.
Even if you disagree with himï¿½ maybe even if you
fight with them, you don't treat civilians, children
and women like this."

Israel deliberately targeting civilians in Gaza
http://www.youtube.com/watch?v=Ev6ojm62qwA

It was almost acknowledged on CBC radio that
nazi Israelis, use the argument that a tin can
rocket traveled miles, to kill some innocent
Jew as a direct hit (likely a person who hated
godless NEOCON), all because that nazi state
has OPENLY, as PUBLIC policy, stolen water and
food including baby formula, along with a huge
list of other atrocities, to punish God and
Humanity since way back before three of four
truces. AGAIN, Nazi Israeli always, as ungodly,
break their truces. Why? Because YOU, or Christ
as any Jew's life means nothing, to all the
'free' billions they'll get from given American
worker wages. Look, Americans refuse to call
for the arrest of Bush on their national,
"truth telling" Coast to Coast radio program.
Why? Because, for one, George Noory, (Alex
Jones' best buds), has told US he's into
killing innocent kids as powerful, and that
'bin Laden did it', Is good enough for US.
You don't get a say here however how you will
live or die. George Noory calls all grunts
heroes, and those who refuse criminal orders,
those he wishes to go ballistic on. Yes, it's
true, George Noory is still alive and happy

as ever.

Rise Up for innocent Life, or don't and see
where it'll get you in the end.

Again, every soldier in the Air Force serving
for the neocon liar is a traitor warranting death,
to save the lives of their next innocent victims.
They have murdered more than two million people
in Iraq. They are pushing heroin into America
from Afghanistan. They are raping AMERICAN
women as officially "LAWLESS" (can't be arrested
but through Rumsfeld - who has not seeked any
prosecutions for the raping of American Peoples.
He, as Neocon, is TRYING to DESTROY FREEDOM
For all Americans in America - while paying
with American wages, South African death squads
to murder Black men) and TV'ed Americans refuse
to speak for Justice denied themselves. Zionist
amerikans only see US as innocent others, not
themselves to pay, but they do pay, they will pay.
God, nor John will not live in a world where
bushite grunts walk freely down our streets as
first degree mass murdering rapists, torturers,
and thieves. Celebrated by CNN, CBC, and FoxNews.
Especially when they DEMAND they have greater
rights than Human Beings. Mass Murderers deserve
immediate death sentence to defend ourselves
from their demon lies and betrayals to God and
Man. Every CBC and CNN reporter who reported
Russia attacked Georgia unprovoked will warrant
trial, then death sentences for their total
commitment to the Satanic NeoCON enemy war
criminals. Remember: they targeted for murder,
helpless innocent families. YOUR family. CNN
wants you to blindly believe, CNN personalities
like ENEMY George Noory are so happy, why would
we think they willed death against our great
Humanity by conning you for more stolen money
through the sacrifice of YOUR life for zionist
criminals who laugh at your powerlessness to
raise your voice for Justice.

-

Stealing the Title of Jew from Christ:

Fallujah by the Sea: Aping America, Israel Unleashes Chemical Weapons
in Gaza
http://uruknet.info/?p=m50412&hd=&size=1&l=e

Look at this picture of nazis indiscriminately slaughtering
our Humanity, while on MSNBC they reported that the Nazis
will continue to murder Humanity until a truce can be found,
A truce that the Satanic enemies of God will naturally break,
as they ALWAYS do. They are godless enemies of Life who wish
to steal the Title of Jew from Christ. They targeted Jews in
Lebanon with seven million land mines, and let Jews starve to
death in Israel for more charitable aid they can steal from
G-d's Good Will. When asked by Israeli newspapers why, it was
said to kill a Jew is rewarding for the godless Zionist.
Public record. Die bushite die.

http://lataan.blogspot.com/2009/01/israeli-zionists-guilty-of-deliberately.html

/ / In doing so, this makes Israel guilty of using
its own people as ï¿½victimsï¿½ for political purposes. \ \

-

What Israel Does Not want God or Humanity to See
http://www.kawther.info/wpr/2009/01/04/what-israel-does-not-want-you-to-see

Look at the comments from bushite grunts glorifing
in this indiscriminate slaughter of Innocent Human
Beings. Evil enemies of God do breath our air.
Die bushite die.

Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus!

LEAKED: graphic, uncensored video shows carnage in Gaza
http://rawstory.com/news/2008/Leaked_graphic_video_shows_carnage_in_0104.html

Zionist Enemies of The Jew do not Care for The Truth
http://video.google.com/videosearch?hl=en&hs=0hK&resnum=0&q=911+missing+links&um=1&ie=UTF-
8&sa=X&oi=video_result_group&resnum=4&ct=title#
Zionist Enemies of The Jew do not Care for The Truth
-

FBI E-Mail Says Bush Authorized Abuse of Iraqi Detainees
http://uruknet.info/?p=m50369&hd=&size=1&l=e

-

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

Israel or Hamas who broke the truce
http://www.youtube.com/watch?v=KUfgULhac8c

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

-

a-mother-from-gaza.blogspot.com

This web site is the winner of greatest interest internet site of the years 2000s.

Israeli plan to topple Hamas, re-instate Abbas
http://a-mother-from-gaza.blogspot.com/

/ / Breaking the truce Nov. 4, then, was Israel's way of getting the gears rolling for this whole sick game: the toppling of Hamas, and the re-instating of the impotent Abbas into Gaza so the "peace process" can remain forever in formaldehyde, to quote wiseass, er., Weisglass. \ \

Nov 4th! - perfect!. We are dealing with Nazi war criminals who refuse US, as a Species, Justice for everyone. Especially The Jew's Jew, Johnny America. Hint: they call us Love just to hide our complete agreement with this Living Universe to will Justice for God as every last bushite zionist freely moving. Once all the neocon zionists are rotting in a prison cell, or formally executed as godless war criminals, we all will have one joyous welcome in a heavenly future.. Until then, demand Justice for US. That's YOU too. Angels included. Who? I don't see no Johnny Wizard here anywhere, We are Good to Go. Rise Up for innocent Life, or don't and see where it'll get you in the end. The bushmob are traitors for closing official FBI investigations into 911, immediately after the mass murder of Americans occurred. Treason, of a, trust WE don't have it in US to stand for our common values as the Revolution will not be televised, Johnny Who. Man, are we or no? Be Somebody, then get on your phone to call in for Justice willed. Alive I Say! - this must be where you'd raise the dead and dying.. if you only could raise your finger to dial the phone numbers - well guess what? - I Command You Can! - snapoutofit - Speak for pursuing Justice on 911, and show serious concern for publicly paying private banker men trillions in worker wages for nothing. This is seriously disturbing, yes, but seriously important to address openly in our spaces to remedy with a Johnny Wizard World Wide Work of Wonder, Super CNN Special of Specials, with Your Host, the One and Only, President and CEO of Shareware Earth Co. John Himself. Hey everybody! Wow eh? So a.. when is the good guys showing up? Now. Justice. I want US to Host Coast to Coast for open Public communications, where things get solved because we know whats we're learning about. We of god, this way comes, then men and women with calculators to know: giving money to private bankers

on hopes they'll lend a small fraction some back
to ourselves at high interest is dumber than rocks.

Arab American rally in Dearborn for Gaza
http://www.youtube.com/watch?v=AVP4_-u6MV0&NR=1

Israel Drops White Phosphorus Bombs, Littlest Victims Suffer
http://www.apfn.org/apfn/DU_Israel.htm

My friends, demonic evil forces do exist to STEAL
the living rights from anyone of us, especially
including the Jews. Remember, it is the zionist who
steals God's good name through lies left unchallenged
by private corporate interests tied to the CON of
private banking in total. Christ is a Jew too.
Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus! Like starving
Jews do attest on a infomercial that ran for near
18 months across Canada. Then covered by the Israeli
press, that the Zionist officials there actually
enjoy the prospect of suffering Jews because it,
OUR SUFFERING, will attract more charitable aid the
ungodly criminal enemy can use elesewheres! Hitler
revisited. I am the Son to God and I wouldn't lie
to you about an issue as hughly Satanic as this.

White Phosphorous: Israel fires artillery shells into Gaza
http://www.sott.net/articles/show/172089-White-Phosphorous-Israel-fires-artillery-shells-into-Gaza

We can overcome this, and create a better world in
the process. It's back to the simple things: open
communications, and evidence, evidence, evidence
to convince ourselves truly of anything. We are
in a horrible dream right now, that we must arrive
ourselves into for comforts. Arrest the Neocons for
treason. That of course includes anti-gay faggot
Bolton for his and Kalilizad's treasonous lies
brodcasted on FoxNews these last few days. And
Peter Powers for the London bombings while we are
at it, then, we'll really being going places.

/ / My relative's neighbors- 3 young children- were
all killed today \ \

-

Satanic Enemies of Christ

CNN with Blitzer allowed reported on Larry King
that Hamas broke the truce, without any uttering
of fact. While when the nazi israelis were accused,
just minutes earlier, Mark Regev could say only

silence. The zionist Satanic enemies of Jews speak only silence, because they know they are satanic enemies liars of Human will.

Again, these SATANIC enemies break their truces everytime, then state, it is Humanity's fault because CNN will never ALLOW the humans to know. They are murdering innocent People in hospitals for example, or those in a Church, just as amerikan bushite nazi grunts do for the escape of the neocon zionists responsible for 911. To hunt a lawless bushite nazi grunt, and kll it instantly is to defend it's next innocent bombing victims. Bush and Cheney closed 911 investigations on 911, therefore killing a lawless bushite traitor for our Humanity is just to get ourselves together to arrest those responsible for mass murder on 911. The deaths of bushite zionist liars is a mercy given for the love of God. Die bushite die.

Israel Nazi State

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce. They always break their truces. Understand these Satanic enemies of God, dropped seven million land mines on Lebanon when learning the conflict was over. They will kill Jews for money, THEY are the Nazis. Nazi Mark Regev is clearly insane. 'It wasn't israel that started this' He could not stand with any man without instantly being exposed to All of Humanity as a war criminal in need of immediate public trial for death sentence. These are only innocent people being bombed. In a concentration refugee camp. Look, it's a prison camp. And if YOU
were a prisoner there, and Texan child rapists are something you'd wish to defend your community from, you'd maybe join the Gazan police force, run by Hamas, a political group democratically elected. All police officers in Gaza, Nazi israeli claims warrant 1000 lb bombs, not warrants for arrest for a criminal offense. Remember, it was Israel that broke the truce, as so is spoken by Palestinian government officials speaking internationally - using the example from November. But understand, as Satanic fraudsters, they always fuck over Our Innocent Humanity this way.

What kind of "Human" would commit such crimes against Life? Cheating Liars for Satan God tells YOU.

The Bible "I know the blasphemy of them which say they are Jews, and are not, but are the synagogue of Satan."

Look, these enemies of Life steal INNOCENT PEOPLES HOMES as thieves of The King of Jew's simple philosophy.

The Reality of Zionist War Crimes in Gaza
http://www.youtube.com/watch?v=GDjthFt6EZg

The zionists aligned with Bolton are using radio-active weaponry against all Christians. What do "Christians" in America on Coast to Coast have to say? Nothing because that demon enemy of Life George Noory, the pro child killer, insists as Truth's closest most bestest friend, bin Laden did it.

most moral army in the world:

Our reign of terror, by the Israeli army
http://www.ifamericansknew.org/cur_sit/rot.html

Glorified by CNN, CBC, and FoxNews:

ï¿½do the Gazans know that only Hamas is to blame for their sufferings?ï¿½

Remember those same news groups will KILL Americans too with poisons in our foods while smiling as George Norry does Daily

-

Gray Ghost

/ / Funny thing noone ever shows pictures of the scumbag Hamas rockets falling on Israeli civilians, but the nooz is full of Palies suffering. Fuck you all I hope Israel exterminates the vermin. \ \ He can advocate the MURDER of innocent people for the neocon liars, and Google doesn't destroy his account?

Remember Zionist Nazi Israeli started all their murder rampages against Innocent Peoples for 'free' welfare money, as broke the truce with, IDF funded Hamas on Nov. 4th. They have been indiscriminately bombing People with excuses that never do add up. Example: Nazi Israeli stated they were in the right to murder ANYONE

in a car or truck in the entire nation of
Lebanon, (especially in the Jewish communities)
because like enemy "Gray Ghost" would say, all
those innocent Peoples deserve TO DIE AS MURDER
VICTIMS for his sadistic ungodly pleasures.
Remember, Nazi Israeli didn't mention this until
thousands has already been murdered, then even
still, without radio, TV, or newspapers, telephones,
or sky writing how were ONLY THE INNOCENT JEWS
as officially targeted to know? Then the seven
million land mines to kill innocent kids for
generations. To the enemy of Life, Gray Ghost
it matters not that Israeli started the conflict
by sacrificing nazi vermined trashed as Satanic
dumfuk enemy soldiers sent across the border,
to Grey Ghost, all it knows, is Justice must not
be allowed to win this game for our human race,
for he would be truly seen as a sadistic enemy
of Freedom, powerless, or rightly dead for
his proud treasons against life in this universe.

ZIONIST DEMON LIARS TO SHOW HIT ON TRUCK FULL OF ROCKETS ACTUALLY HIT
TRUCK FULL OF WELDING TANKS
http://english.aljazeera.net/news/middleeast/2009/01/20091117737115874.html

Please John begs all People's of Humanity,
Americans do not have the courage to even speak
concerns for their dying as evil state of godless
private banker ruled blind tyranny. 'Duh, yeah
give billionaires trillions, trillions, TRILLIONS
to help the poor homeless mothers poisoned by
FoxNews CRIMINALLY.' Gawly je, I dunt no y dat
detnt work-ed' - o wel, cary ohn my wayward Son.

Livni: Gaza truce would give Hamas legitimacy

See? this is why NAZI I$raeli thinks they have
an excuse for bombing people indiscriminately
to break a truce they signed on to. This isn't
a one time, maybe two time occurrence, but every
time in the last 60 plus years the zionists
aligned with Hitler have. Satanic enemies
of Humanity.

ANTI-SEMITE is FoxNews every time they assault God
with "Israel, the Jewish State" to torture, steal,
and murder.?. ANTI-SEMITE!

The Ungodly Zionist - a report from the front

/ / The most recent victim of Israeli airstrikes
was 10-year-old Ismail Hamdan \ \

To the Satanic enemies of Man, the Ungodly Zionist,
an innocent murder victim's life can not be allowed
a defense such as the charge of first degree murder
against Netanyaho because, he states no Justice to
any who believe in the Jewish cause, as Hillel, of
freedom as Liberty for all. If Jews ran Israel,
Netanyaho would be chastised publicly by the Humans,
for sanctioning the criminal acts of first degree
murder. The nation of Nazi Israel STEALS Peoples
HOMES. What other nation on this Earth commits
such willful crimes against innocent Human beings
OFFICIALLY? Steals homes from god loving innocent
folks and labels it our 'Justice system'? Who? Neocon
Amerika, the nation that gave trillions to bankers
recently on only prayers that their gods will maybe
lend some of their own money back to them at high
interest. But alas, evil is the deceived disguised,
as in their deep ignorance of money and virtue, they
do not understand, the private banker never covers
the loan. Never does a private banker reach into
it's pocket to borrow US to begin with - so as a
consequence, the bankers have just pocketed all the
'free' loot for nothing, TRILLIONS, and are not
saying why should they help anyone else with charity?
it's the amerikan way. Instead, hate the wise socialist
who designed a working good traffic signal system,
where lives are saved and congestion is eased, or
hate the white man, the black man, different People.
But never Mr. Bush, Mr. Cheney, or Rumsfeld, the
neocon traitors who closed criminal investigations
immediately after the crimes of 911 occurred, who
doctored the NIE to con America into death, and
never slight the trillioniare private banker gods,
who have stolen/taken our public authority through
war criminals in Congress. Taken from all others
to bring us a much poorer world suffering due to
our speakings of contempt for Justice as christians
in America - who claim in silence only indignation
for real Christian families robbed or murdered
Officially by the zionist state of ungodly Israeli,
paid for by dying America. Americans refuse to raise
their phones for the arrest of the bushmob for capital
mass murder, so, what's private trillioniare bankers
walking away with the entire economy in free fall
going to do for them, when they are already to
death for the glorious Zionist Neocon thieves of
Civilization? Proudly in hatred for Innocent
Humanity. Again, Hamas was founded by Zionists
in the IDF, to kill Jews for money - public record.
Jews starve near death in Garbage dumps of Israel,
all because the Nazi Zionist UNGODLY government

states it is beneficial to starve Jews, for, they will receive more humanitarian aid THEY can use elsewhere. Public knowledge. Zionist liars murder innocent Jews for money, like they did in Lebanon, and like the zionists did on 911 by forbidding the pursuit of the terrorists by following the crimes scene leads at the real murder scene. Unjust enemies of Man.

To arrest those responsible for 911, we are going to need to form a public warrant for a person or persons. Bush and Cheney are guilty of closing investigations on 911, treason, called obstruction.

UnHoly Nazi Israeli Racists are Greater than the censored words of Messiah!

IDF's YouTube Gaza channel to Correct Ourselves

/ / it will disseminate footage of precision bombing operations \ \

Precision? They dropped seven million land mines in Lebanon, after having seeked out where the Jews lived, (Northern Lebanon), and murdered them firstly! JEWS. They, as enemies of God, like those of FoxNews, will refuse these type of FACTS on their hatred for Love and Justice. Their hatred for Jews, real Jews, like me. Understand: American baby formula has been contaminated with poisons, and FoxNews doesn't think it's important to their corporate responsibilities to kill ourselves further for profit. The Zionist will murder anyone just to steal your belief in God as Love. They HATE me for being wise and Just. Hate. For, why wouldn't America support my demands for open radio communications on the Coast to Coast radio network? Americans would rather murder Humanity before Justice succeeds beyond their illusions of grandeur through the mass murdering of ourselves for stolen gains. The banker does not cover our loans! Giving them trillions for free unquestioningly is dumber than rocks. Enough.

Fake Rocket Attack
http://xymphora.blogspot.com/2005/02/fake-rocket-attack.html

Remember however, the Zionist has no qualms about killing Innocent Jews too if it means Americans will get it more free welfare to murder ourselves. They openly STEAL Peoples

homes in that nation run as thieves don't
You know? Or as it is just open public
knowledge that the Zionist excepts that
911 was actually a good thing for them as
war criminals reaping the cash rewards for
continuing capital murders?

/ / Ehud Barak promised that the war would
continue ï¿½to the bitter end.ï¿½ \ \

That is you there Barak promises to end
bitterly as the innocent the demon targets
for ungodly murder. How could ANY REAL MAN
steal food from a Christian baby? How do they
do it?, as the inhuman. (Like bushite do in
Iraq, while on CNN in interview tell US, they
are there war criming for neocon traitors to
steal everything as "helping the Iraqi
children". They offer no clean water, no food,
just indiscriminate bombing campaigns of evil
incarnate. True fascist nazi enemies of true
freedom in America who advance censorship to
anyone like myself. Why? They lose. They are
not men but Satanic enemies of the King to
Jews, the Messiah. I Am. Thieves to the
scriptures of Hillel, and of Moses. Thieves
to the intent of every true religious person,
for God is everywhere. God is the Word, and
the Word is Holy. So, fuck you and die bushite
nazi traitors to American Justice, those of
them who refuse US open free words to resolve
their war criminal behaviors as is done in
godless Israel today against INNOCENT
Christians. Done before another innocent other
has our homes stolen, or is murdered by the
lawless grunting bushite dumfuk enemies of
Jesus Christ. I am King already, always have
been, always will be. Live with it. The Koran
is filled with great understandings on this
relationship. Christ is mentioned more than
Mohammad - and Mary can be understood as the
mother of all being before we are. a virgin.)

Look humans, you've
had your fun murdering yourselves, now the wise
people will compete for bettering ourselves by
understanding. Who the fuck are these illiterate
monsters at CTV national television? and how can
they willingly keep our soldiers in the dark dying
that way by simply smiling? Are they experts in
anything? are they respected researchers? writers?,

politicians?, civil rights lawyers? - do they even
respect ourselves enough to be warned of vaccines?
NO, instead they LIE with such contempt for Humanity
I am surprised Canadians, don't speak out more..
perhaps they do, it's just CBC, CJOB, and the
Winnipeg Free Presses of our World make no attempt
to inform ourselves about it. They don't take my
thousands of calls, how about Yours?

Life is real to know, if you seek, and not go
so freaked out as Living is as it always has
been. Knowing God is cool, 'amazing', yeah,
whatever, but we are of too this real world
suffering for our lack of respect for a wise
person speaking. I WANT FREE PUBLIC DEBATE
FOR JUSTICE AS ALL INCLUDED. Now really, is
that too much for US to ask freely? What say
you Googler? Afraid I will truly make your
banker gods look like fools?, the gods we all
give more than half our lives to for nothing?
Don't want to look truly dumb as deathly
ignorant, so censor US all themmers you are
too in command of your Fate. So be it. See?
Stand in. I didn't even really do anything
there, yet it's written, it's done. A Miracle!
Imagine: your Christ! YOU. now what are you
going to do.. time is ending for you remember,
now what are you going to do? Will you pick
up your magic phone and call likewise for
Justice denied, or will you crawl up on your
cross and die in silence for the glorious
Zionist aligned with trillioniare private
bankers and Satan? Christ is of all peoples.
Your on a mountain.. You've raised yourself
from death already, and your here to do
something greater for the love of God..
what's your plan for the common man? Welcome
to the real world my friend.

Morpheus 'Nobody can tell you what the Matrix
is, you have to see it for yourselves. .. all
I am offering is the truth Neo, nothing more'

Lawless Police to Defend Who Again?

They Call it Terrorism

"Israeli nazi enemies call bombing people,
like they do without apology, terrorism.
What can't you figure?"

CNN TODAY

/ / Stand down 'Christian' nation. It's not your babies. Ethnic cleansing is not a 'sin' as long as the 'chosen ones' of Israel do it. \ \

Israel, the nazi enemies of God nation broke the ceasefire on November 4th. Now, as demon liars claim they want to honor a ceasefire again to further steal ourselves from the Love of Justice. Why do the godless Zionist do this always as first degree murderers? Because they can't win an open debate on their treasons against God and Man. The private bankers DO NOT cover our loans. Again, these SATANIC ENEMIES OF GOD dropped seven million land mines on Lebanon while target killing JEWS. INNOCENT JEWS. Targeted. Northern Lebanon, look it up. Israeli MURDERED Jews. Innocent Jews as targeted for more stolen charity. I again, beg you to support my call for war crime trials against the bushmob, including CNN demons who report a total contempt for YOUR life dying. Your call loser.

ISRAEL: No civilian casualties in Gaza! http://uk.youtube.com/watch?v=RlZd3vR6Kzk

Satanic enemies of God as anyone included. Think: who buys these demon lies to steal further from our innocent Humanity? Zionists do at CBC and CNN, who will murder America by openly lying to destroy freedom. Example: CNN reports Georgian nazis who targeted children schools, churches and threw grenades into our homes to murder as minions for Satan are called freedom fighters. Just like the Third Infantry, the new lawless police officers of California, who can't be charged with rape for example, because ONLY Rumsfeld can okay such prosecutions. Hey who cares for Iraqi Rights right?, for TV America's CNN with FoxNews and George Norry doesn't, for it's only American women and children now right nazi enemies? And WE ALL KNOW, cowardly America refuses to even raise their phones for these dying concerns. How can George Norry continue to live happily dying America for the neocons? How? they let them. Alex Jones thinks George Norry is just fantastic, so no, don't encourage the NWOers to demand free communications, because if we did, Alex Jones and the like, would factually look like the idiots he is. (better to die

America than face this foolishness?) The banker doesn't cover our loans, we do Alex. So giving them trillions in American worker wages is a bank robbery in progress. Simple. NOT a diabolical ingenious plan, we, the simple folk can't figure without the Alex Jonesers geniuses of thought control developed by the CFR, builderberg, the Boners and NASA.

Obama stated all lawless soldiers who war for godless Zionism are heroes, which includes South African death squad goons who murder my nigger friends. AEGIS. I call them lawless enemies of God, deserving death sentences to save the lives of their next innocent victims, Obama calls them heroes warring for the escape of the neocon traitors responsible for 911. Who are you going to believe?

1222. Re: get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 16:50:22 UTC
From: k3vr@hotmail.com
Message-ID: <unntp4hugig10omjev57g4f28052cd7vgf@4ax.com>
Source record: 17445
Cross-posted to: rec.radio.cb,rec.radio.scanner,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 20 Feb 2009 06:39:07 -0800 (PST), mopeyzakween@yahoo.com
wrote:

>On Feb 18, 2:37ï¿½pm, k3vr <k...@ymail.com> wrote:
>> On Feb 18, 10:58ï¿½am, mopeyzakw...@yahoo.com wrote:
>>
>> > On Feb 17, 7:00ï¿½pm, k...@hotmail.com wrote:
>>
>> > > On Tue, 17 Feb 2009 15:19:26 -0800 (PST), mopeyzakw...@yahoo.com
>> > > wrote:
>>
>> > > >On Feb 17, 8:33ï¿½am, mopeyzakw...@yahoo.com wrote:
>> > > >> Conviction 1
>>
>> > > get a life stalker or at leasts end this somewhere it might have an
>> > > effect
>>
>> > It has an effect, it upsets fags like you...now, go contract bubonic
>> > plague or anthrax or something.
>>
>> nt upset realy just tried of reading the same old crap
>>
>> but tell me why would a fag stalk women?
>
>Who cares what you are tired of seeing? I hope you understand that
>fact before you die of inoperable brain cancer.
well I am very unlikely to die such a death

but to answer your question I do and I was answering your previous
charge that I was upset I am not I and anyone else left after youur
years of insainty however is tired of you posting the same old shit

1223. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 17:33:24 UTC
From: Jim Thompson <To-Email-Use-The-Envelope-Icon@My-Web-Site.com>
Message-ID: <caqtp4haul7gpa676jkrnbb3ccas26hml0@4ax.com>
Source record: 17447
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

On Thu, 19 Feb 2009 20:12:06 GMT, mzenier@eskimo.com (Mark Zenier)
wrote:

>In article <rd3rp4d0c21t99l3q1vcrldnue5p5ro9n1@4ax.com>,
>Jim Thompson <To-Email-Use-The-Envelope-Icon@My-Web-Site.com> wrote:
>>On Wed, 18 Feb 2009 20:57:00 GMT, mzenier@eskimo.com (Mark Zenier)
>>wrote:
>>
>>>In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>,
>>>Frnak McKenney <frnak@far.from.the.madding.crowd.com> wrote:
>>>
>>><Big Snip.>
>>>
>>>Go find Radio-Electronics magazine for 1983, and read the five(?)
>>>articles by Ralph Burhans about receiving VLF.
>>>
>>>Mark Zenier mzenier@eskimo.com
>>>Googleproofaddress(account:mzenier provider:eskimo domain:com)
>>
>>Is that set of articles available on the web? That'd be an
>>interesting read.
>>
>
>Some of them. I remember on of them coming up in a discussion
>in one of the radio newsgroups, and someone posted a URL.
>
>They are practical hobby stuff mostly. A VLF converter, how to match
>longwire antenna, an active whip antenna, a balanced loopstick. The most
>useful non-hobby one was how to derive time/frequency references from
>Loran-C.
>
>I'm reluctant to go to the effort because this was back in the era when
>R-E was paranoid about photocopying, with colored backgrounds for the
>figures and charts, and it would take a day or two to photoshop the
>scans so that they are of decent quality. Also, they were, near the end,
>one of the more Internet savvy publishers and there may still be somebody
>around to enforce their IP.
>
>Mark Zenier mzenier@eskimo.com
>Googleproofaddress(account:mzenier provider:eskimo domain:com)
>
>

Send them to me. I can work magic with a scanner ;-)

...Jim Thompson
--
James E.Thompson, P.E.	mens
Analog Innovations, Inc.	et
Analog/Mixed-Signal ASIC's and Discrete Systems	manus
Phoenix, Arizona 85048 Skype: Contacts Only	
Voice:(480)460-2350 Fax: Available upon request	Brass Rat
E-mail Icon at http://www.analog-innovations.com	1962

I love to cook with wine Sometimes I even put it in the food

1224. Where does high gain antenna get the gain from?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 17:52:55 UTC
From: john <nospam@nospam.com>
Message-ID: <008acc5d$0$11648$c3e8da3@news.astraweb.com>
Source record: 17448

Wireless routers come with small antennas. There are high gain,
non-directional antennas you can buy , like this:
http://www.amazon.com/Linksys-High-Antenna-Connectors-HGA7S/dp/B0002F3E9M

If the antenna is directional, I can understand how it could achieve high
gain (by concentrating the radio wave in one direction). But it is
non-directional, so where does the extra gain come from?

1225. Re: Where does high gain antenna get the gain from?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 18:03:55 UTC
From: You <you@shadow.orgs>
Message-ID: <you-BBAB15.09060420022009@netnews.worldnet.att.net>
Source record: 17449

In article <008acc5d$0$11648$c3e8da3@news.astraweb.com>,
"john" <nospam@nospam.com> wrote:

> Wireless routers come with small antennas. There are high gain,
> non-directional antennas you can buy , like this:
> http://www.amazon.com/Linksys-High-Antenna-Connectors-HGA7S/dp/B0002F3E9M
>
> If the antenna is directional, I can understand how it could achieve high
> gain (by concentrating the radio wave in one direction). But it is
> non-directional, so where does the extra gain come from?

The gain comes from taking the Spherical shape of a Point Source RF
Emitter, and squashing it Flatter. Think of a round balloon. What
happens if you put it on a table and push down on the top. it gets
fatter. Ok?

1226. Re: Where does high gain antenna get the gain from?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 19:03:21 UTC
From: dplatt@radagast.org
Message-ID: <pcb376-2mn.ln1@radagast.org>
Source record: 17351

>Wireless routers come with small antennas. There are high gain,
>non-directional antennas you can buy , like this:
>http://www.amazon.com/Linksys-High-Antenna-Connectors-HGA7S/dp/B0002F3E9M
>
>If the antenna is directional, I can understand how it could achieve high
>gain (by concentrating the radio wave in one direction). But it is
>non-directional, so where does the extra gain come from?

In this case, "non-directional" is misleading... they're more commonly referred to as "omnidirectional".

These antennas are non-directional in one plane (perpendicular to the axis of the antenna). Normally, the antenna is oriented vertically.

They are *quite* directional in their elevation, though. That is to say, they're most sensitive (highest gain) in the directions which are perpendicular to the antenna. As soon as you start getting "above" or "below" this perpendicular angle (at higher or lower elevation angles) the gain drops away... and directly above or below the antenna there is a deep "null" in the gain pattern and the antenna is *extremely* insensitive.

The three-dimensional gain pattern of a simple half-wave dipole antenna looks somewhat like a donut (or, in cross-section, like a figure-8).

For these higher-gain "omnidirectional" antennas, the donut is "squashed flatter" - there's more gain out in a horizontal direction (compared to a half-wave dipole) but the gain falls off more rapidly as soon as you start getting much above or below the horizontal plane. It's concentrating the power (and receive sensitivity) just as you say, but in the vertical (elevation) direction rather than by picking a sector of the horizontal plane.

As a result, these higher-gain omni antennas can be a good solution for increasing your signal coverage throughout a single-floor building space. However, if you're trying to provide coverage for multiple floors, you may very well find that such an antenna makes signal coverage *worse* for users on any floor other than the one with the wireless router.

In short, you pay Peter by robbing Paul... not unlike every system of taxation ever tried by humanity :-)

A truly non-directional antenna (technically referred to as an "isotropic" antenna) would put out precisely equal amounts of power in every direction in the sphere. It can be proven that no such antenna

can actually exist - it's impossible to create such a unform EM field
without the presence of singularities (i.e. holes) or one sort or
another. However, the isotropic antenna is a useful point of
reference (even if it doesn't really exist) and you'll often see
antenna gain figures given as a "dBi" number (that is, antenna gain in
decibels, compared to what you'd get from an isotropic antenna if one
actually existed).

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1227. Re: Where does high gain antenna get the gain from?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 19:07:13 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <AbDnl.17362$yr3.13975@nlpi068.nbdc.sbc.com>
Source record: 17450

john wrote:
> But it is
> non-directional, so where does the extra gain come from?

You seem to be confusing "non-directional" and "omni-
directional". A non-directional antenna has no gain.
An omni-directional antenna takes away from higher
elevation radiation and focuses that radiation
at lower elevation radiation angles.
--
73, Cecil http://www.w5dxp.com

1228. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 21:09:31 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <2n5up49ct9pceb87bcrjp6qdgi7j7g35cd@4ax.com>
Source record: 17352

On Mon, 16 Feb 2009 18:49:47 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

>
>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>news:hfajp4ddfbd88mjc5c3r62pe2937muemgo@4ax.com...
>> On Tue, 10 Feb 2009 18:12:26 -0000, "christofire"
>> <christofire@btinternet.com> wrote:
>>
>>>
>>>>"Jerry" <jerrymartes@verizon.net> wrote in message
>>>>news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...

<snip>

>>>Chris
>>>
>> Interesting article, it describes the Lindenblat array as a quartet of
>> coaxial horns. Not the same as a quartet of dipoles at all.
>
>
> Hi Joseph
>
> I sent an E-mail to the address shown as yours in this group. I use
>EZNEC and have lots of files on various sizes and shapes of the DCA and
>other OmniAzimuth and Hemispheric coverage antennas. I'd be happy to share
>them with you if you E-mail me directly.
> I figure it will benefit me to see the facts and data that shows where I
>am mistaken about how the DCA better than the other hemispheric coverage
>antennas for LEO use. It is likely that I have overlooked something.
>maybe the DCA can be improved.
>
> Jerry KD6JDJ
>
> Jerry KD6JDJ
>
I can retrieve the email. Thanks for the notice.

I have done a bit of gedanken after the slant range issue was raised.

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Let the group of "o" represent a polar view of earth,
"A" represent satellite at azimuth (highest point in the sky),
"B" represent satellite between azimuth and horizon,
"Z" represent satellite very near the horizon,
nominal orbital height 1000 miles above mean surface,
and mean radius of earth of 4000 miles.
Then range to the satellite at A is about 1000 miles, at B may be
about 3000 miles and at H would be about 5000 miles. The arithmetic
for relative sensitivity versus elevation angle can even be solved
analytically, though 4 evenly spaced angles on either side of azimuth
would be quite sufficient to plot the most even EIRP curves.
Your DCA is notably more hemispherical than that. Can you tinker it
up to get about 16 dB more at the horizon than at the azimuth?

1229. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 21:20:17 UTC
From: JosephKK <quiettechblue@yahoo.com>
Message-ID: <897up4hjabotctv7d5ptnn48pfrprpsv0j@4ax.com>
Source record: 17353

On Mon, 16 Feb 2009 10:21:56 -0800, Roy Lewallen <w7el@eznec.com>
wrote:

>Michael Coslo wrote:
>> Roy Lewallen wrote:
>>>
>>> At HF, a vehicle isn't "ground" or a "counterpoise", but the bottom
>>> half of an asymmetric dipole. It radiates at least as much as the
>>> "antenna" due to currents flowing downward along the outside. Calling
>>> a vehicle "ground" or "counterpoise" doesn't impart magical properties
>>> -- it's a conductor carrying currents whose fields don't cancel. In
>>> other words, it's an integral, radiating portion of the antenna. You
>>> can't leave this significant part of the antenna out of a model and
>>> expect the model to give correct results.
>>
>> I'm assuming that there is a capacitor formed by the car body being some
>> few inches away from the physical ground also?
>
>Yes. This alters the current distribution on the vehicle, and can make
>it an even more effective radiator than the "antenna".

Maybe, maybe not. Roadway surfaces are rarely conductive. More like
static dissipative materials. While the area is significant the
opposite conductive pole plate is missing, computing the effective
capacitance may be challenging.

>
>>> And modeling a vehicle can be challenging because of the proximity of
>>> conductors, particularly the whip and vehicle. You have to follow the
>>> rules for closely spaced parallel conductors, and watch the average
>>> gain. You might need considerably more segments than normal where
>>> conductors are very close.
>>
>> Given my limited experience, it's gotta be very difficult to model. My
>> setup was worst case, as far a sensitivity to bandwidth goes, a
>> bugcatcher. Best of a bad lot, I guess, but that makes the tuning very
>> sharp and sensitive. I'm assuming that the antennas that have fixed
>> elements "work" and tune by being pretty inefficient.
>>
>> Which makes me suspect that we won't find any Hi-Q HF antennas that
>> aren't manually tuned in some fashion.
>
>Yes again. Manufacturers discovered long ago that hams like antennas
>that are small, broadband and quiet. No problem -- small coils, small
>wire, and bingo -- the ideal antenna. Rotten efficiency, but I've heard

>countless hams over the years fussing and bragging about low SWR, and
>nary a one who said a word about efficiency. Fortunately most hams don't
>realize how many QSOs you can have with a watt or two of radiated power,
>otherwise they'd be more concerned that that's all they're getting with
>their 100 watt rig.
>
>Roy Lewallen, W7EL

1230. Re: vertical over real ground

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-20 23:43:14 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <I-adndRD4Z2P3QLUnZ2dnUVZ_giWnZ2d@posted.easystreetonline>
Source record: 17354

JosephKK wrote:
> On Mon, 16 Feb 2009 10:21:56 -0800, Roy Lewallen <w7el@eznec.com>
> wrote:
>
>> Michael Coslo wrote:
>>> Roy Lewallen wrote:
>>>> At HF, a vehicle isn't "ground" or a "counterpoise", but the bottom
>>>> half of an asymmetric dipole. It radiates at least as much as the
>>>> "antenna" due to currents flowing downward along the outside. Calling
>>>> a vehicle "ground" or "counterpoise" doesn't impart magical properties
>>>> -- it's a conductor carrying currents whose fields don't cancel. In
>>>> other words, it's an integral, radiating portion of the antenna. You
>>>> can't leave this significant part of the antenna out of a model and
>>>> expect the model to give correct results.
>>> I'm assuming that there is a capacitor formed by the car body being some
>>> few inches away from the physical ground also?
>> Yes. This alters the current distribution on the vehicle, and can make
>> it an even more effective radiator than the "antenna".
>
> Maybe, maybe not. Roadway surfaces are rarely conductive. More like
> static dissipative materials. While the area is significant the
> opposite conductive pole plate is missing, computing the effective
> capacitance may be challenging.

Much more than the roadway surface is involved. The skin depth in average soil varies from about 12.6 feet at 30 MHz to 15.9 feet at 3.5 MHz. So significant current flows to depths of several tens of feet, well below the road surface. Within this distance of the surface you'll usually find strata with various conductivities and permittivities, as well as possibly buried pipes, rebar, and who knows what else. Computing an "effective capacitance" is virtually impossible, and useless if the vehicle is to be moved even a short distance. So only generalizations are possible. But any reasonable assumption about the characteristics of the ground under the vehicle points to it having a significant impact on the current distribution.

Roy Lewallen, W7EL

1231. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 01:36:28 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <wUInl.688$Ez6.184@nwrddc02.gnilink.net>
Source record: 17355

"JosephKK" <quiettechblue@yahoo.com> wrote in message
news:2n5up49ct9pceb87bcrjp6qdgi7j7g35cd@4ax.com...
> On Mon, 16 Feb 2009 18:49:47 GMT, "Jerry" <jerrymartes@verizon.net>
> wrote:
>
>>
>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>news:hfajp4ddfbd88mjc5c3r62pe2937muemgo@4ax.com...
>>> On Tue, 10 Feb 2009 18:12:26 -0000, "christofire"
>>> <christofire@btinternet.com> wrote:
>>>
>>>>
>>>>"Jerry" <jerrymartes@verizon.net> wrote in message
>>>>news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>
> <snip>
>
>>>>Chris
>>>>
>>> Interesting article, it describes the Lindenblat array as a quartet of
>>> coaxial horns. Not the same as a quartet of dipoles at all.
>>
>>
>> Hi Joseph
>>
>> I sent an E-mail to the address shown as yours in this group. I use
>>EZNEC and have lots of files on various sizes and shapes of the DCA and
>>other OmniAzimuth and Hemispheric coverage antennas. I'd be happy to
>>share
>>them with you if you E-mail me directly.
>> I figure it will benefit me to see the facts and data that shows where I
>>am mistaken about how the DCA better than the other hemispheric coverage
>>antennas for LEO use. It is likely that I have overlooked something.
>>maybe the DCA can be improved.
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>> Jerry KD6JDJ
>>
>> Jerry KD6JDJ
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> I can retrieve the email. Thanks for the notice.
>
> I have done a bit of gedanken after the slant range issue was raised.
>
>

> A
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>
> Let the group of "o" represent a polar view of earth,
> "A" represent satellite at azimuth (highest point in the sky),
> "B" represent satellite between azimuth and horizon,
> "Z" represent satellite very near the horizon,
> nominal orbital height 1000 miles above mean surface,
> and mean radius of earth of 4000 miles.
> Then range to the satellite at A is about 1000 miles, at B may be
> about 3000 miles and at H would be about 5000 miles. The arithmetic
> for relative sensitivity versus elevation angle can even be solved
> analytically, though 4 evenly spaced angles on either side of azimuth
> would be quite sufficient to plot the most even EIRP curves.
> Your DCA is notably more hemispherical than that. Can you tinker it
> up to get about 16 dB more at the horizon than at the azimuth?

Hi Joseph

I am not familiar with all the satellite orbits. It seems that most of
the Polar Orbiting Satellites are about 500 miles above the Earth. If the
Earth radius can be considered to be 4,000 miles, the distance to the
satellite at the horizon is about 2,000 miles. That means that, the path
los from the satellite to the ground station varies by about 12 dB as it
passes overhead.
One of the objectives of the DCA design project was to produce a pattern
with about 12 dB less sensitivity toward zenith. I attempted to achieve
that pattern shape by tilting the dipoles to minimize overhead sensitivity.
Serindipity offered me a side benefit when it made me aware that tilting the
dipoles in this array effects the dipole input impedance. The input
impedance of the dipoles in a DCA with 45 degree tilt (90 degree cross) is
about 72 ohms. The dipole input impedance in a DCA with 30 degree tilt is
very near 50 ohms. Kinda lucky!!

Jerry KD6JDJ

>

1232. 2009 Hybrid cars with HF radio and RFI

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 09:10:02 UTC
From: boB
Message-ID: <tsgvp4l1bhageeugrcei9ucguc946kvqin@4ax.com>
Source record: 17356

Does anybody have experience with any of the 2009 Prius or Honda civic hybrid cars with HF installed ?? I hear that at least 2006 Prius' have quite a bit of RF interference that evidently can be cleaned up quite a bit.... BUT, how about the 2009 Prius OR 2009 Honda Civic Hybrids.

And, any experience on HF antenna mounting on the Honda hybrid ??

boB , K7IQ

1233. 40m Vertical Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 11:54:07 UTC
From: maxpowervk@yahoo.com.au
Message-ID: <a86d8860-8d59-4b16-956c-51d86a32c2d1@z10g2000prl.googlegroups.com>
Source record: 17357

I have been toying with the idea of putting up a 40M vertical antenna. I have an inverted vee up at 40 feet high but it doesn't seem much good for hearing European stations. I put up a temporary 40m vertical today and heard alot more stations than on my inverted vee. I have a steel shed with a zincalum roof with an area of about 320 square feet. If I was to mount a 40m quarter wave vertical on that roof area would I have an adequate ground plane? Or, am I better off ground mounting it and running out radials? Or for something completely different, how would I go if I erected an 80m loop at about 30 feet high? I have tried to reorientate the inverted vee to better capture European stations but it doesn't seem to help, hence I am looking at other ideas. Any information gratefully accepted.
Cheers
Max

1234. FA: YAESU G-800SA antenna rotator and controller

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 12:23:04 UTC
From: DC <nobody@pseudo.borked.net>
Message-ID: <96d590eae042ca32a743f72217ba6c50@pseudo.borked.net>
Source record: 17358
Cross-posted to: rec.radio.amateur.antenna,alt.ham-radio.marketplace

http://xrl.us/YaesuG800SA

1235. Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 15:11:55 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <060605f0-480d-4ff7-9f4b-f8b9a7e5571d@e22g2000vbe.googlegroups.com>
Source record: 17359

Someone on another board I read posted a description of how to
construct a self-resonant, helically-wound vertical as an emergency
replacement for a 1/4-wave monopole for a MW broadcast station. His
conclusion was that its radiation resistance would be somewhere around
40 ohms, and could be driven at least at reduced power by a tx
expecting a 50 ohm load.

I responded as below, and thought it might be a topic for discussion
on rraa.

Such a configuration may be self-resonant, but that does not mean that
it
has the same radiation resistance as that of a linear monopole at its
1st
self-resonance (1/4-lambda).

According to John Kraus in "Antennas," 3rd edition, Chapter 8-22 --
the
radiation resistance of such a helical antenna is approximately the
same as
that of a linear monopole of the same overall height, and not to the
length
of the wire used to wind the helix.

The radiation resistance of a short monopole is approximately (h^2)/
312,
where h = height in electrical degrees. A 20-ft monopole is about
12-1/2
degrees at 1700 kHz, so the highest radiation resistance possible for
your
configuration for MW broadcast use is about half an ohm.

Kraus says in this chapter "The advantage of the helix over a straight
wire
or stub is that its inductance can resonate the antenna."

This means that a separate "loading coil" is not needed, which can
reduce
the fixed resistive losses in the antenna system. But it doesn't mean
that
a self-resonant, normal-mode helix has the radiation resistance and
radiation system efficiency of a linear, 1/4-wave monopole (other
things
equal).

RF

1236. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 15:58:02 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <dwVnl.18325$c45.2371@nlpi065.nbdc.sbc.com>
Source record: 17360

Richard Fry wrote:
> But it doesn't mean that
> a self-resonant, normal-mode helix has the radiation resistance and
> radiation system efficiency of a linear, 1/4-wave monopole (other
> things equal).

Here's a data point. Awhile back, using EZNEC to simulate
the delay through a 75m bugcatcher loading coil, I used
the coil pretty close to its self-resonant frequency of
~7 MHz. It had a 4 inch bottom section and a 4 inch
stinger so the antenna is about 14 inches long. The
resonant feedpoint impedance is 2 ohms (not including
ground losses) and the maximum gain is -14.8 dB.

Assuming a typical 1/4WL monopole has a maximum gain of
0 dB, the 1/4WL monopole is 30x the efficiency of this
short "helical" antenna on 6.85 MHz. So it seems that
the radiation resistance is ~1/30 that of a 1/4WL
monopole using mininec ground simulation.

Incidentally, a resonant helical monopole obviously
has a 90 degree delay from feedpoint to tip. The reason
that virtually zero phase shift occurs through the coil
is that one is sampling standing-wave current phase which
doesn't change (much) whether it is through a coil or
through a 1/4WL wire. Quoting my web page at:

http://www.w5dxp.com/current2.htm

"Standing wave current cannot be used to directly measure
either a valid amplitude change or a valid phase shift through
a loading coil. All of the reported conclusions based on
loading coil measurements using standing-wave current on
standing-wave antennas are conceptually flawed."
--
73, Cecil http://www.w5dxp.com

1237. Re: 40m Vertical Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 18:06:30 UTC
From: wimabctel@tetech.nl
Message-ID: <e6a373dc-1567-4080-abb0-ef033ea58cdb@13g2000yql.googlegroups.com>
Source record: 17361

On 21 feb, 12:54, maxpowe...@yahoo.com.au wrote:
> I have been toying with the idea of putting up a 40M vertical antenna.
> I have an inverted vee up at 40 feet high but it doesn't seem much
> good for hearing European stations. I put up a temporary 40m vertical
> today and heard alot more stations than on my inverted vee. I have a
> steel shed with a zincalum roof with an area of about 320 square feet.
> If I was to mount a 40m quarter wave vertical on that roof area would
> I have an adequate ground plane? Or, am I better off ground mounting
> it and running out radials? Or for something completely different, how
> would I go if I erected an 80m loop at about 30 feet high? I have
> tried to reorientate the inverted vee to better capture European
> stations but it doesn't seem to help, hence I am looking at other
> ideas. Any information gratefully accepted.
> Cheers
> Max

Hello Max.

You proved yourself that the concept is better then the current solution. Vertical polarization gives lower elevation angle of the main lobe. From an antenna standpoint I would place the antenna on the shed. It raises the feed point, giving lower elevation angle of maximum radiation.

I suppose the walls are metal also and are electrically connected to the roof, so you don't get HF inside the shed. The large metal surface (roof and walls) that serves as counterpoise may be sufficient. Depending on foundation of the shed and type of soil, some radials may help you. You can try it yourself. Look to the VSWR or impedance of the quarter wave as it is now. Add 2 floating radials from opposite edge of the roof. Vary the length and see what happens with the VSWR or impedance. When it doesn’t change much, radials will not give a large improvement.

When the walls of the shed are non-metal, you will create an RF field between the roof and the soil under it (this will also lead to a common mode current on the coaxial feed line. In my opinion this is undesirable (both RF and safety). In that case I would ground the roof at several places. More thin copper grounding points are better then some thick grounding points.

Safety is different. When the roof isn't connected to the walls at sufficient places, I direct hit can be fatal. Though you are pretty safe in a full metal shed when hit by lighting, when safety grounding is not OK, you might have a problem in the electrical system. When your shed lacks its own safety grounding, you will get excessive

lightning current in the mains cable that runs from your home to the shed.

About radials, buried, laying on the soil or elevated.
Adding radials may reduce ground losses in the vicinity of the antenna, but will not change elevation of main lobe as this is mostly determined by soil properties up to many wavelengths from the antenna itself.

When you make the vertical radiator longer then a quarter wave, it raises the input impedance and lowers the elevation angle of maximum radiation (you will like this). You only need a capacitor to tune out the inductive component. I use this concept for the 40m antenna for JOTA (16m vertical). The increased input impedance, reduces the current that must be drawn from the ground system (in your case the roof with or without radials). You may increase the electrical length by adding a capacative head.

Some design info from the JOTA logfile. 13m radiator with 8 elevated quarter wave radials (2m above ground), gives about 60 Ohms in series with about 200 Ohms inductive part. All over pastoral ground. Last year we extended the radiator to about 16 m and used a 50 ohms to 200 Ohms transformer and just 3 floating radials. The reason for the many "abouts" is because of measurements are done with primitive antenna materials at the grass production ground adjacent to the scouting camp.

Best regards and good DX.

Wim
PA3DJS
www.tetech.nl
without abc, the mail is OK

1238. vertical recomendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 19:50:10 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <FVYnl.14722$pX4.8838@newsfe08.iad>
Source record: 17362

Im in the market for a vertical that will work 80-10 including WARC. Im limited in space and would like one that doesnt need radials. I work both cw and ssb, but prefer cw. I can go about as high as 30 feet with it. Can anyone recomend something that theyve had good experience with or is there an FAQ somewhere that would have some comparisons I could look at? Any help is appreciated.
73,
Brian

1239. Re: vertical recomendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 21:27:53 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <sas0q453jqrjk9s9vbesv7bpc54uh0jn09@4ax.com>
Source record: 17363

On Sat, 21 Feb 2009 13:50:10 -0600, "Brian Oakley"
<brian.oakley@charter.net> wrote:

>Im in the market for a vertical that will work 80-10 including WARC. Im
>limited in space and would like one that doesnt need radials. I work both
>cw and ssb, but prefer cw. I can go about as high as 30 feet with it. Can
>anyone recomend something that theyve had good experience with or is there
>an FAQ somewhere that would have some comparisons I could look at? Any help
>is appreciated.
>73,
>Brian

Hi Brian,

Trim your sails for a vertical that goes from 20-10 and you might find
the performance you expect. You could sneak in 40, but 80 will arrive
only to spite your dreams.

73's
Richard Clark, KB7QHC

1240. Re: 40m Vertical Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 22:02:02 UTC
From: maxpowervk@yahoo.com.au
Message-ID: <62212272-895f-4f8d-b5be-95decde49458@t11g2000yqg.googlegroups.com>
Source record: 17364

Hello Wim,
thank you for your reply. The shed has metal walls, roof and frame. I
will try what you suggest with the radials and see what happens.
Cheers
Max

1241. Re: vertical recomendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-21 22:05:39 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SU_nl.16778$YU2.14815@nlpi066.nbdc.sbc.com>
Source record: 17365

Brian Oakley wrote:
> ... 80-10 including WARC, 30 feet, no radials.

If you can design one that works well, you can
become a very rich man.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous
as government persecution..." Ayn Rand

1242. Re: vertical recomendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 00:39:52 UTC
From: jgboyles@aol.com
Message-ID: <77d4e425-5b13-404a-926f-86d16a852d84@v38g2000yqb.googlegroups.com>
Source record: 17366

On Feb 21, 1:50 pm, "Brian Oakley" <brian.oak...@charter.net> wrote:
> Im in the market for a vertical that will work 80-10 including WARC. Im
> limited in space and would like one that doesnt need radials. I work both
> cw and ssb, but prefer cw. I can go about as high as 30 feet with it. Can
> anyone recomend something that theyve had good experience with or is there
> an FAQ somewhere that would have some comparisons I could look at? Any help
> is appreciated.
> 73,
> Brian

Brian, as others have suggested, you can't have all. You want vertical, broadband, no radials, and 30'. Suggest you pick 1 or 2 favorite bands and go from there.

Gary N4AST

1243. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 01:18:23 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <xrydne-QRNx-Oj3UnZ2dnUVZ8jmWnZ2d@bt.com>
Source record: 17367

"Richard Fry" <rfry@adams.net> wrote in message
news:060605f0-480d-4ff7-9f4b-f8b9a7e5571d@e22g2000vbe.googlegroups.com...
> Someone on another board I read posted a description of how to
> construct a self-resonant, helically-wound vertical as an emergency
> replacement for a 1/4-wave monopole for a MW broadcast station. His
> conclusion was that its radiation resistance would be somewhere around
> 40 ohms, and could be driven at least at reduced power by a tx
> expecting a 50 ohm load.
>
> I responded as below, and thought it might be a topic for discussion
> on rraa.
> --------
>
> Such a configuration may be self-resonant, but that does not mean that
> it
> has the same radiation resistance as that of a linear monopole at its
> 1st
> self-resonance (1/4-lambda).
>
> According to John Kraus in "Antennas," 3rd edition, Chapter 8-22 --
> the
> radiation resistance of such a helical antenna is approximately the
> same as
> that of a linear monopole of the same overall height, and not to the
> length
> of the wire used to wind the helix.
>
> The radiation resistance of a short monopole is approximately (h^2)/
> 312,
> where h = height in electrical degrees. A 20-ft monopole is about
> 12-1/2
> degrees at 1700 kHz, so the highest radiation resistance possible for
> your
> configuration for MW broadcast use is about half an ohm.
>
> Kraus says in this chapter "The advantage of the helix over a straight
> wire
> or stub is that its inductance can resonate the antenna."
>
> This means that a separate "loading coil" is not needed, which can
> reduce
> the fixed resistive losses in the antenna system. But it doesn't mean
> that
> a self-resonant, normal-mode helix has the radiation resistance and

> radiation system efficiency of a linear, 1/4-wave monopole (other
> things
> equal).
>
> RF

Sounds right to me. The 'loading coil' is distributed throughout the radiating element and, consequently, throughout the current distribution so it might be possible to reduce the I^2R loss using the normal-mode helix. It follows that terminal impedance involves an inductor with a non-uniform current distribution throughout its length, so the magnitude of the reactive part involves an integral.

Chris

1244. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 01:22:02 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <RMSdnXoYUZkiNT3UnZ2dnUVZ8jqWnZ2d@bt.com>
Source record: 17368

"Jerry" <jerrymartes@verizon.net> wrote in message
news:wUInl.688$Ez6.184@nwrddc02.gnilink.net...
>
> "JosephKK" <quiettechblue@yahoo.com> wrote in message
> news:2n5up49ct9pceb87bcrjp6qdgi7j7g35cd@4ax.com...
>> On Mon, 16 Feb 2009 18:49:47 GMT, "Jerry" <jerrymartes@verizon.net>
>> wrote:
>>
>>>
>>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>>news:hfajp4ddfbd88mjc5c3r62pe2937muemgo@4ax.com...
>>>> On Tue, 10 Feb 2009 18:12:26 -0000, "christofire"
>>>> <christofire@btinternet.com> wrote:
>>>>
>>>>>
>>>>>"Jerry" <jerrymartes@verizon.net> wrote in message
>>>>>news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>>
>> <snip>
>>
>>>>>Chris
>>>>>
>>>> Interesting article, it describes the Lindenblat array as a quartet of
>>>> coaxial horns. Not the same as a quartet of dipoles at all.
>>>
>>>
>>> Hi Joseph
>>>
>>> I sent an E-mail to the address shown as yours in this group. I use
>>>EZNEC and have lots of files on various sizes and shapes of the DCA and
>>>other OmniAzimuth and Hemispheric coverage antennas. I'd be happy to
>>>share
>>>them with you if you E-mail me directly.
>>> I figure it will benefit me to see the facts and data that shows where
>>> I
>>>am mistaken about how the DCA better than the other hemispheric coverage
>>>antennas for LEO use. It is likely that I have overlooked something.
>>>maybe the DCA can be improved.
>>>
>>> Jerry KD6JDJ
>>>
>>> Jerry KD6JDJ
>>>
>> I can retrieve the email. Thanks for the notice.

>>
>> I have done a bit of gedanken after the slant range issue was raised.
>>
>>
>> A
>>
>>
>> B
>>
>>
>>
>> o H
>> ooo
>> ooooo
>>
>> Let the group of "o" represent a polar view of earth,
>> "A" represent satellite at azimuth (highest point in the sky),
>> "B" represent satellite between azimuth and horizon,
>> "Z" represent satellite very near the horizon,
>> nominal orbital height 1000 miles above mean surface,
>> and mean radius of earth of 4000 miles.
>> Then range to the satellite at A is about 1000 miles, at B may be
>> about 3000 miles and at H would be about 5000 miles. The arithmetic
>> for relative sensitivity versus elevation angle can even be solved
>> analytically, though 4 evenly spaced angles on either side of azimuth
>> would be quite sufficient to plot the most even EIRP curves.
>> Your DCA is notably more hemispherical than that. Can you tinker it
>> up to get about 16 dB more at the horizon than at the azimuth?
>
> Hi Joseph
>
> I am not familiar with all the satellite orbits. It seems that most of
> the Polar Orbiting Satellites are about 500 miles above the Earth. If the
> Earth radius can be considered to be 4,000 miles, the distance to the
> satellite at the horizon is about 2,000 miles. That means that, the path
> los from the satellite to the ground station varies by about 12 dB as it
> passes overhead.
> One of the objectives of the DCA design project was to produce a pattern
> with about 12 dB less sensitivity toward zenith. I attempted to achieve
> that pattern shape by tilting the dipoles to minimize overhead
> sensitivity. Serindipity offered me a side benefit when it made me aware
> that tilting the dipoles in this array effects the dipole input impedance.
> The input impedance of the dipoles in a DCA with 45 degree tilt (90 degree
> cross) is about 72 ohms. The dipole input impedance in a DCA with 30
> degree tilt is very near 50 ohms. Kinda lucky!!
>
> Jerry KD6JDJ

... but, dare I ask, what does that do to the axial ratio? Indeed, what
kind of axial ratio is being sought in this application? ... 3 dB or more?

Chris

1245. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 01:28:53 UTC
From: jimlux@earthlink.net
Message-ID: <f4cb631e-43ae-4a87-aa4d-f6b2166f530d@w35g2000yqm.googlegroups.com>
Source record: 17369

On Feb 16, 10:03 am, JosephKK <quiettechb...@yahoo.com> wrote:
> On Tue, 10 Feb 2009 18:12:26 -0000, "christofire"
>
>
>
> <christof...@btinternet.com> wrote:
>
> >"Jerry" <jerrymar...@verizon.net> wrote in message
> >news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>
> >> "christofire" <christof...@btinternet.com> wrote in message
> >>news:2LadnRjKfbllHAzUnZ2dnUVZ8qydnZ2d@bt.com...
> >>> "Jerry" <jerrymar...@verizon.net> wrote in message
> >>>news:Irakl.2355$eK2.206@nwrddc01.gnilink.net...
>
> >>>> "Harry H" <harryha...@hotmail.com> wrote in message
> >>>>news:Mx8kl.19129$cu.18448@news-server.bigpond.net.au...
>
> >>>>> The Lindenblad has an overhead null that you might find anoying for
> >>>>> some high elevation passes of LEOs.
> >>>>> Are you open to trying to build a DCA (which is an antenna that I
> >>>>> developed)?   I make the claim that there is no other hemispheric
> >>>>> coverage antenna design that performs better than a DCA.   But, I sure
> >>>>> am open to being corrected.
> >>>>> The Feb 2008 QST contains an article on the DCA antenna design
> >>>>> concept.
> >>>>> It is my claim that a DCA is extreemely forgiving of construction
> >>>>> errors and uses 4 wire dipoles and 50 ohm coax with 5 RFI type
> >>>>> ferrites as "baluns'.
>
> >>>>>   Jerry   KD6JDJ
> >>>> Given the fact I don't subscribe to QST, domicile Australia, would you
> >>>> have a copy of the article?
>
> >>>> HH
>
> >>> Hi HH
>
> >>> It would be my pleasure to disclose any/all the information I have
> >>> relating to the DCA antenna design concept.   It is simple. It is two
> >>> pairs of crossed dipoles.   Each pair is spaced 1/4 wave apart and fed
> >>> in phase. One pair is physically mounted 90 degrees from the other pair.
> >>> All four dipoles are tilted 30 degtrees from vertical.   One pair is fed
> >>> 90 degrees later than the other pair.

> >>>> The concept is so simple and straightfoeward that it is probable that
> >>>> the concept has been developed before I thought of it.   But, I have
> >>>> been unable to find anything published related to this simple "Double
> >>>> Cross Antenna"
> >>>> I told my *Internet buddy*, Patrik Tast, in Finland about the concept
> >>>> and he found it to be exactly what he needed for reception of NOAA
> >>>> weather satellite signals.   Patrik publishes alot of what I send him
> >>>> related to the antenna. Patrik shows a section of his web page to
> >>>> describe the DCA to anyone interested.   You can find the QST article in
> >>>> the section Patrik identifies as ANTENNAS on the first page of his site
> >>>>http://www.poes-weather.com/index.php.
>
> >>>> If you have any questions about the DCA concept you are free to E-mail
> >>>> me, anytime.   Or, if you have any facts or data to show where I am
> >>>> wrong about how well this antenna performs, or know of something that
> >>>> performs better, please set me straight.
>
> >>>>   Jerry   KD6JDJ
>
> >>> ... but surely this is the same as a Lindenblad array? The tilt of the
> >>> dipoles was always a parameter in the Lindenblad, so I wonder how your
> >>> DCA differs from what N. E. Lindenblad described in the April 1941
> >>> edition of 'Communications'.
>
> >>> Chris
>
> >> Hi Chris
>
> >> Several, well educated, antenna experts insist that the DCA is actually a
> >> Lindenblad.   If you thought the DCA is a Lindenblad, you are not alone.
> >> The DCA is not a Lindenblad.   The array of four dipoles in a Lindenblad
> >> are fed to produce an overhead null.   The four dipoles in a DCA are fed
> >> to produce no overhead null.   The DCA is a hemispheric coverage CP
> >> antenna. The Lindenblad is not.
> >> Let me know if you have reason to consider the DCA to be the same as a
> >> Lindenblad.   I knew nothing about Lindenblad until after recognizing the
> >> DCA concept.
>
> >>   Jerry m   KD6JDJ
>
> >>   Jerry
>
> >Perhaps it's a rather fine distinction to say an antenna that has the same
> >physical form as the Lindenblad array is something different because the
> >elements are driven differently. The original version that he patented
> >didn't have rod elements at all (see, for example,
> >www.coe.montana.edu/ee/rwolff/EE548/EE548-S06/UWB/History_UWB_antenna...)
> >but it was the configuration of four slanted dipoles around a central pole
> >that appears to have borne his name since 1941. Henry Jasik's 'Antenna
> >Engineering Handbook' (now by John L. Volakis, Richard C. Johnson and Henry

> >Jasik, Chapter 29, Page 34) refers to the configuration as a Lindenblad
> >array, without being specific about the way the dipoles are driven.
> >However, applying new names to antennas that exploit well known
> >configurations seems fairly commonplace in the professional field,
> >particularly in broadcasting.
>
> >Of course you can name your antenna as you please, but there might be some
> >value in mentioning that it is a development of the Lindenblad array - you'd
> >certainly need to demonstrate awareness of, and distinction from, the prior
> >art if you were to seek a patent.
>
> >Chris
>
> Interesting article, it describes the Lindenblat array as a quartet of
> coaxial horns. Not the same as a quartet of dipoles at all.

Actually, it's not much different.. Both are radiators that radiate a linearly polarized signal. The Lindenblad (and variants) make the CP with two dipoles canted relative to each other and fed with a phase shift (same idea as crossed yagis for Satellite CP antennas). The "two dipole" thing radiates in both directions, of course. Add another pair pointing at 90 degrees from the first, and you get roughly omnidirectional coverage. You can do the same thing with 4 (or 3 or 27) CP horns arranged in a circle.

Most of the fooling around with dimensions and spacing and phasing has to do with the overall pattern and just how circular it is at which look angles.

1246. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 01:37:34 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <EdGdnfA-5OzDMT3UnZ2dnUVZ_oiWnZ2d@earthlink.com>
Source record: 17370

On Wed, 18 Feb 2009 12:12:53 -0800, Richard Clark <kb7qhc@comcast.net> wrote:
> On Wed, 18 Feb 2009 12:06:09 -0600, Frnak McKenney
><frnak@far.from.the.madding.crowd.com> wrote:
>
>>What has puzzled me is that I have run across designs that use
>>(e.g.) a JFET isolation amplifier hooked to a whip or hunk-o-wire
>>with the statement (or implication) that this is done to ",atch the
>>antenna's impedance".
>
> Matching provokes heated debates that in times past ran to 600+
> postings - few knew what they were arguing (but enjoyed arguing
> nonetheless) and little was offered.

What I think I'm looking for would be a point of reference that
would let me, if not exactly evaluate the facets of such an
argument, at least be a foundation for forming a testable opinion of
my own.

> A JFET at these frequencies does satisfy the naive requirements of
> "matching," but that giving you a reception solution doesn't always
> follow.

In my current state of ignorance of the subject, this sentence has
the appearance of a Zen koan: something that sounds non-sensical at
first glance, but which, after sufficient time and effort studying,
will undoubtedly become so blindingly obvious as to appear trivial.
Thank you... I think. <grin!>

>> So I;ve been trying to figure out how to
>>calculate/estimate what it would be, without much success.
>
> The Mohican schematic says quite planely Hi-Z input. This is
> borne out by the antenna connection feeding a tank circuit in the
> front end where the input stage is fed from a low tap into a 470 Ohm
> resistor. ...

Ah! You have a Mohican? Or just access to the manual? Mine is missing,
burioed somewhere in my basement; I was fortunate enough to locate a
copy of a GC-1A PDF some kind soul posted online.

> ... This would be your JFET feed Z, but you could choose any
> suitable close value. As for the input Z, the JFET input resistance
> is perfectly capable of mismatching horribly high - although this is
> not about optimal power transfer at these impedance levels. What is
> at risk, is the JFET input capacitance which could present a low Z
> at some frequency. Naturally, you select your JFET against this to

> optimize. It will be in some ratio to the antenna capacitance (if
> it is bare, short wire) and that will establish the proportion of
> signal that gets in by divider action.

>>I imagine that the inductance of a 6' extension cord (not plugged
>>in, just dangling from a planter hook <grin!>) is down in the
>>uH-or-less range, which would mean that most of the "tuning"
>>inductance would have to be supplied to achieve 60kHz. I have this
>>image of a big (tens of mH) inductor in series with a moderate
>>capacitor and my (electrically) short wire;
>
> That is one way, other ways work too and are electrically equivalent.
> Loops help tune and match by a slightly more elaborate means, but
> still fairly holds to simple requirements.
>
> You don't need wire to build an inductor. At these frequencies you
> can use a capacitor in a Gyrator design.

"Gyrator"? I thought that was the rooftop dance that follows an
antenna adjustment in mid-thunderstorm. <grin!>

Google led me to the AAVSO site (www.aavso.org) which led me to the
Yahoo VLF_Group. Aaaaaaaaaaaaaauuuuuuuggggh! A circuit that can
replace capacitors or inductors? My first reaction is "technology
at a level indistunguisable from black magic".

I don't think I'm in Kansas any more.

(On the other hand, I have lots more toys to play with. <grin!>)

>>all of the surrounding
>>EM sets the electroncs in the wire to dancing, but the series RC
>>blocks those which are wiggling "off-key" (e.g. not dancing at the
>>"proper" rate of 60kHz).
>
> And this responds to the filtering capacity (selection AND
> rejection). This is called "Q" which also serves the yeoman's
> task of matching as well

Um. I don't think I ever got past the simplistic "High Q = Good,
Low Q = Evil" stage. Looking back, I can now see cases where an
excessively high Q might be... counterproductive, but as always, it
depends on what one means by "high" or "low" in a given context.

Noted as something else I need to review and not depend on instinct
for.

> ... (observe the input tank design for the
> conventional bands).

Of the five bands (A-E, SW3 positions 5-1), the only one which seems
different is "E", with an additional 130pF cap between the antenna
and the tank circuit.

Is that what you're referring to?

--snip--
>> ... The module's 12V power and 120V
>>switching connections are done through a 9-pin tube socket with
>>mating connector/cable; remember those? <grin!>
>
> Remembering isn't difficult. I broke into electronics through
> TV/Radio repair during high school. If I could fix it, I got paid.

You got _paid_!?? <grin!> Woody Maiden, WA4GMV, ran a radio/TV shop near my home and didn't object to someone hanging around and watching over his shoulder in the afternoons, but he was a bit concerned about his liability insurance. (Don't know why. I didn't get zapped by a "discharged" CRT until my college years. <grin!>)

> Anyway, power connections from that era brought "ground" notoriously
> close to lethal if you plugged the radio into the wall wrong. Some
> used AC noise reduction circuit design that could almost guarantee
> your chassis was floating at 70V if things went wrong.

"We don' need no steeken' transformers!" I think I saw a 50C5 in one of my basement boxes a few months back. <grin!>

> I had an ET striker (Navy parlance for a student electronics tech)
> who connected a TV antenna input to ground, and the insulation
> melted off of the wire in a heartbeat. This was in the day when we
> called TV power line interlock replacements "suicide adapters."

I learned about them from my father, a power company EE who wasn't above swapping the odd tube or building a color TV from a kit with my little sister's help.

> 73's
> Richard Clark, KB7QHC

* * *

If you're getting bored, please feel free to skip the following; on the other hand, someone with access to a GC-1 manual might enjoy my story...

A few months back I pulled my old Mohican out from under a pile of magazines and blew the dust off it. It had been buried so long that I had forgotten why I never built an outdoor antenna for it or showed it to my nephews an nieces; I remembered the moment I powered it on: there was a loud buzz coming from the speaker.

This wasn't _hum_ mind you, which even when loud has a sort of even-ness to it; this was an intense, jagged, and metallic "I'm shredding your speaker cone and I don't care!" kind of low-frequency buzz. Worse, it went _away_ when I turned the volume _up_, and reappeared when I turned it (the volume control) down.

I was able to isolate it to the audio section by unsoldering the capacitor connecting the volume control wiper to the base of the first audio stage. It went away (blessed relief!), and when I hooked up a RadioShack "utility" amplifier to the volume control wiper the sound was clear and crisp. I considered this A Clue. <grin!>

NTE listed their NTE102A as a replacement for the Mohican's 2N407s... at nearly $7 each (apparently Germanium is on the Endangered Elements List). I replaced all three AF transistors, and the audio level was much better than it has been. Unfortunately, the BUZZZZZ was still present, and also louder. I did notice that turning the ANL ON (diode and resistor connected between the base of X7 and ground) eliminated it.

I tried all sorts of things. I jumpered the volume control wiper to ground to make sure the resistance arc hadn't cracked, leaving the wiper floating near its low end. I tried swapping the transistors around. I tried paralleling the electrolytics I could reach, but no luck.

As you've seen (or know personally) the Mohican's IF and AF stages are all on one printed circuit board which is bolted down to the chaissis with ?2-40 machine screws around its border. I couldn't see much of the underside of the AF section of this board because my vision -- and fingers -- were blocked by a large AF transformer, so I unbolted it and let it hang free (but not shorting anything; thank &deity for stiff transformer leads).

With that pushed out of the way I could see all three AF transistor sockets and even reach them with my test leads. I jumpered a 100uF electrolytic from the chassis to the emitter pin of X7, the AF stage 1 transistor, parallelling it with the existing 150uF emitter bypass capacitor (C55(?)), and a miracle occurred: the buzz disappeared! I can't tell you how good it felt to hear normal-sounding hiss, static, and the odd "sqrgrl" coming out of the Mohican's speaker.

No 150uF in the parts bin, so I wired two caps in parallel for a 147uF, shrink-wrapped them, unsoldered the decades-old 150uF and wired the glob-cap in its place. Didn't even burn my fingers in the confined space<grin!>. And then I turned it on.

BZZZZZZZZZZZZZZ!!

I'm sure you recall the feeling: "What did I do wrong?" Bad solder joint? No... Overheated the component? Not as far as I could tell. Dropped a solder glob across two traces frying by $7 transistors? No... in fact, although the buzz existed over a larger percentage of the volume control's span, the louder end of the audio worked just as it had before. My "proven cure" had made the problem slightly worse.

It was late, I was tired, so I decided that, since my previous jumpering had created 250uF total, I needed to hit the problem with a bigger hammer: I jumpered in a _470uF_ this time. And the buzz

went away. Again.

Okay. Now I was _sure_ I had fixed the problem, so I unsoldered my obviously-too-clever glob-cap and soldered in the 470uF, this time triple-checking the polarity markings. I inspected the traces for possible solder bridges. I inspected the new solder joints under a large magnifier and wiggled the new leads; the joints looked good, so I hooked up the power supply again and turned it on.

BZZZZZZZZZZZZZZ!!

By now I was tired _and_ cranky, so I jumpered in the original decades-old 150uF cap. No buzz.

At that point I had two options: go down in the basement and bring up a sledge hammer, or quit to go eat supper. It was a close call, but supper won out. There's something very weird about watching the news, eating supper, and looking over a schematic and trying to work what I was doing differently when it worked.

If the emitter of X7 is wired to R37 and C55, and if the other ends of R37/C55 are wired to ground, how on Earth could a new capacitor jumpered from X7's emitter to the chassis cause different behavior from the _same_ capacitor soldered to a trace going to the same emitter and the PC board's ground trace?

All I could think was "this makes no sense, but it does appear to be happening". R37/C55 were clearly grounded. The trace was unbroken. If they weren't grounded, I'd be getting _no_ audio. So how could _soldering_ to ground be any different from _jumpering_ to ground? Even stranger, how could a jumpered connection be _better_ than a soldered connection?

* * *

You've probably figured it out by now. The answer is that when I was jumpering, it was to the metal chassis; when I was soldering, it was to the PC board ground trace. The "ground" trace on this PC board includes a wide band around its outer edge; the strip makes contact with the chassis when the board is bolted down, creating a really solid round-the-board ground. Somehow, over the past half-century, the contact between the chassis and trace had become slightly less than perfectly conductive, and was "floating" in the Never-Never Land between zero and infinite resistance.

Loosen all ten machine screws slightly, spray some contact cleaner in the extremely narrow gap, tighten the screws, and guess what? NO BUZZ!

Re-mount the transformer(*). Reconnect C54 to the volume control wiper. Check for accidental shorts, dropped bits of solder and component leads, and make sure the transistors haven't fallen out of their sockets while I had the chassis upside down, Turn it on.

STILL NO BUZZ!

By then it was 2230, so I went to bed. Next step will be to improve the PC board/chassis contact by running a thin bit of fine steel wool around a bit to get rid of any residual crud; with luck, it'll be another couple of decades before this problem reappears.

As for the 470uF capacitor, I think I'll leave it in place. The original is likely good, but 470uF should work as well, and all I need now is to have that portion of the trace lift off from the PC board due to overheating.

* * *

What's interesting here is the contrast between the schematic and reality. On paper, or on my CRT, those components were clearly connected to ground, and, had I hand-drawn my jumper wires, their wiring lines would have looked identical. It took me a long time to find the cause of the buzz because I was stuck thinking about the lines on the schematic, even though my hands were working on physical components, wires, and traces; how do you know when to stop trusting your compass and check it against the sun and stars?

Definitely a "Learning Experience". <grin!>

Anyway, thanks again for your comments. My head is about to explode from all the new ideas, but please don't take that amiss. If I don't expand it occasionally, it starts collapsing into a dull, super-dense mass (think neutron star <grin!>).

(*) GlueStic(tm) is great for assembling hardware in confined quarters. It's much better than spit for making lockwashers and nuts stick to your fingertips so they don't drop off into the chassis interior.

Frank
--
"If language is not correct, then what is said is not what is meant; if what is said is not what is meant, then what ought to be done remains undone." -- Confucius
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1247. Re: vertical recomendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 02:06:51 UTC
From: dave <dave@dave.dave>
Message-ID: <GsGdnVxQmoCmLj3UnZ2dnUVZ_i0LAAAA@earthlink.com>
Source record: 17371

Brian Oakley wrote:
> Im in the market for a vertical that will work 80-10 including WARC. Im
> limited in space and would like one that doesnt need radials. I work
> both cw and ssb, but prefer cw. I can go about as high as 30 feet with
> it. Can anyone recomend something that theyve had good experience with
> or is there an FAQ somewhere that would have some comparisons I could
> look at? Any help is appreciated.
> 73,
> Brian

That sounds like a GAP Titan DX to me. You'll have to pick either phone
or CW on 75/80. It won't do both.

http://www.eham.net/reviews/detail/315

http://www.gapantenna.com/titan.html

1248. Re: Velocity Factor of Coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 03:07:19 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <Hj3ol.902$Ez6.894@nwrddc02.gnilink.net>
Source record: 17372

```
"christofire" <christofire@btinternet.com> wrote in message
news:RMSdnXoYUZkiNT3UnZ2dnUVZ8jqWnZ2d@bt.com...
>
> "Jerry" <jerrymartes@verizon.net> wrote in message
> news:wUInl.688$Ez6.184@nwrddc02.gnilink.net...
>>
>> "JosephKK" <quiettechblue@yahoo.com> wrote in message
>> news:2n5up49ct9pceb87bcrjp6qdgi7j7g35cd@4ax.com...
>>> On Mon, 16 Feb 2009 18:49:47 GMT, "Jerry" <jerrymartes@verizon.net>
>>> wrote:
>>>
>>>>
>>>>"JosephKK" <quiettechblue@yahoo.com> wrote in message
>>>>news:hfajp4ddfbd88mjc5c3r62pe2937muemgo@4ax.com...
>>>>> On Tue, 10 Feb 2009 18:12:26 -0000, "christofire"
>>>>> <christofire@btinternet.com> wrote:
>>>>>
>>>>>>
>>>>>>"Jerry" <jerrymartes@verizon.net> wrote in message
>>>>>>news:Unhkl.6$2N2.2@nwrddc02.gnilink.net...
>>>
>>> <snip>
>>>
>>>>>>Chris
>>>>>>
>>>>> Interesting article, it describes the Lindenblat array as a quartet of
>>>>> coaxial horns. Not the same as a quartet of dipoles at all.
>>>>
>>>>
>>>> Hi Joseph
>>>>
>>>> I sent an E-mail to the address shown as yours in this group. I use
>>>>EZNEC and have lots of files on various sizes and shapes of the DCA and
>>>>other OmniAzimuth and Hemispheric coverage antennas. I'd be happy to
>>>>share
>>>>them with you if you E-mail me directly.
>>>> I figure it will benefit me to see the facts and data that shows where
>>>> I
>>>>am mistaken about how the DCA better than the other hemispheric coverage
>>>>antennas for LEO use. It is likely that I have overlooked something.
>>>>maybe the DCA can be improved.
>>>>
>>>> Jerry KD6JDJ
>>>>
```

>>>> Jerry KD6JDJ
>>>>
>>> I can retrieve the email. Thanks for the notice.
>>>
>>> I have done a bit of gedanken after the slant range issue was raised.
>>>
>>>
>>> A
>>>
>>>
>>> B
>>>
>>>
>>>
>>> o H
>>> ooo
>>> ooooo
>>>
>>> Let the group of "o" represent a polar view of earth,
>>> "A" represent satellite at azimuth (highest point in the sky),
>>> "B" represent satellite between azimuth and horizon,
>>> "Z" represent satellite very near the horizon,
>>> nominal orbital height 1000 miles above mean surface,
>>> and mean radius of earth of 4000 miles.
>>> Then range to the satellite at A is about 1000 miles, at B may be
>>> about 3000 miles and at H would be about 5000 miles. The arithmetic
>>> for relative sensitivity versus elevation angle can even be solved
>>> analytically, though 4 evenly spaced angles on either side of azimuth
>>> would be quite sufficient to plot the most even EIRP curves.
>>> Your DCA is notably more hemispherical than that. Can you tinker it
>>> up to get about 16 dB more at the horizon than at the azimuth?
>>
>> Hi Joseph
>>
>> I am not familiar with all the satellite orbits. It seems that most of
>> the Polar Orbiting Satellites are about 500 miles above the Earth. If
>> the Earth radius can be considered to be 4,000 miles, the distance to the
>> satellite at the horizon is about 2,000 miles. That means that, the path
>> los from the satellite to the ground station varies by about 12 dB as it
>> passes overhead.
>> One of the objectives of the DCA design project was to produce a pattern
>> with about 12 dB less sensitivity toward zenith. I attempted to achieve
>> that pattern shape by tilting the dipoles to minimize overhead
>> sensitivity. Serindipity offered me a side benefit when it made me aware
>> that tilting the dipoles in this array effects the dipole input
>> impedance. The input impedance of the dipoles in a DCA with 45 degree
>> tilt (90 degree cross) is about 72 ohms. The dipole input impedance in
>> a DCA with 30 degree tilt is very near 50 ohms. Kinda lucky!!
>>
>> Jerry KD6JDJ

>
>
> ... but, dare I ask, what does that do to the axial ratio? Indeed, what
> kind of axial ratio is being sought in this application? ... 3 dB or more?
>
> Chris

Hi Chris

I can send you an EZNEC file that includes DCA axial ratio for all angles within the hemisphere. Or, tell me the angle and I'll tell you the AR. I developed the DCA for reception from NOAA Polar orbiting satellites on the 137 MHz band. The axial ratio is not a requirement. The sensitivity of the antenna to signals from satellites at low elevation angles is a primary problem. Zero dB axial ratio RHCP antenna is certainly a benefit for increased sensitivity to weak signals from the satellites.

Jerry KD6JDJ

1249. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 06:13:47 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <2sm1q4hr9ai4tkgp7gkjmq5cqtf3pikbhl@4ax.com>
Source record: 17373

On Sat, 21 Feb 2009 19:37:34 -0600, Frnak McKenney
<frnak@far.from.the.madding.crowd.com> wrote:

>> Matching provokes heated debates that in times past ran to 600+
>> postings - few knew what they were arguing (but enjoyed arguing
>> nonetheless) and little was offered.
>
>What I think I'm looking for would be a point of reference that
>would let me, if not exactly evaluate the facets of such an
>argument, at least be a foundation for forming a testable opinion of
>my own.

Opinion is, after all, what powers the Internet.

>> A JFET at these frequencies does satisfy the naive requirements of
>> "matching," but that giving you a reception solution doesn't always
>> follow.
>
>In my current state of ignorance of the subject, this sentence has
>the appearance of a Zen koan: something that sounds non-sensical at
>first glance, but which, after sufficient time and effort studying,
>will undoubtedly become so blindingly obvious as to appear trivial.
>Thank you... I think. <grin!>

I could reduce it to the classic "take two aspirin and call me in the
morning."

>Ah! You have a Mohican? Or just access to the manual? Mine is missing,
>burioed somewhere in my basement; I was fortunate enough to locate a
>copy of a GC-1A PDF some kind soul posted online.

It didn't take much effort to scour the web for one (schematic).

>> You don't need wire to build an inductor. At these frequencies you
>> can use a capacitor in a Gyrator design.
>
>"Gyrator"? I thought that was the rooftop dance that follows an
>antenna adjustment in mid-thunderstorm. <grin!>
>
>Google led me to the AAVSO site (www.aavso.org) which led me to the
>Yahoo VLF_Group. Aaaaaaaaaaaaaauuuuuuuggggh! A circuit that can
>replace capacitors or inductors? My first reaction is "technology
>at a level indistunguisable from black magic".
>
>I don't think I'm in Kansas any more.

Gyrators have been around for a very long time, and can be found in a billion telephones, one probably within reach of you at the moment. They use telephones in Kansas don't they, Toto? You can build one with four components (none of them an inductor) to make an inductor more precisely than you could winding one.

If you truly want to be overwhelmed with the dark arts, try googling for "magnetic amplifiers." (Art would go ballistic knowing such a topic was in practice looooong before he left second form.) No tubes, no transistors, and the orginal "solid state" design. As this may sound as if it wanders from the subject of RF, add the name Ernst F. W. Alexanderson to any search.

>(On the other hand, I have lots more toys to play with. <grin!>)
>
>>>all of the surrounding
>>>EM sets the electroncs in the wire to dancing, but the series RC
>>>blocks those which are wiggling "off-key" (e.g. not dancing at the
>>>"proper" rate of 60kHz).
>>
>> And this responds to the filtering capacity (selection AND
>> rejection). This is called "Q" which also serves the yeoman's
>> task of matching as well
>
>Um. I don't think I ever got past the simplistic "High Q = Good,
>Low Q = Evil" stage. Looking back, I can now see cases where an
>excessively high Q might be... counterproductive, but as always, it
>depends on what one means by "high" or "low" in a given context.
>
>Noted as something else I need to review and not depend on instinct
>for.
>
>> ... (observe the input tank design for the
>> conventional bands).
>
>Of the five bands (A-E, SW3 positions 5-1), the only one which seems
>different is "E", with an additional 130pF cap between the antenna
>and the tank circuit.
>
>Is that what you're referring to?

I am merely pointing out the obvious application of a tapped inductor of the tuned front end serving as impedance match to an high-Z antenna (the topic of your choice). The schematic abounds in examples. One need only substitute values to serve the right frequency band - a simple exercise in reverse engineering employed since Hertz drew a spark across a gap at the base of a loop.

>If you're getting bored, please feel free to skip the following; on
>the other hand, someone with access to a GC-1 manual might enjoy my
>story...

Yes, your story was/is classic with a beginning, middle, and end. Very few chroniclers here manage to write with as much clarity. (We get mostly cheesy attempts with "cliff hangers" serving as examples of neo-scholarly writing.) Your learning lesson of maintaining the chassis ground with the trace is classic too. The discovery of corrosion brings up the common practice of taking ALL the tubes out and putting them back in to solve problems. Tightening ALL screws is another hard learned lesson that bench techs either get or don't get.

You probably could have got away with cheaper transistors by also substituting the bias diodes (56-7s) - but as events bore out, the transistors were good. If you note the difference between the base and emitter voltages, there is only about a tenth volt there. If I am to presume the diode call-out is for an 1N56, it is germanium too.

What is more amazing is this wasn't about the decrepitude of the electrolytic capacitors which usually suffer with time if they are not used for a long while.

73's
Richard Clark, KB7QHC

1250. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 16:56:55 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <XICdnQhZ7YZKHjzUnZ2dnUVZ_q_inZ2d@earthlink.com>
Source record: 17374

Jimmie,

Thank you for your comments.

On Wed, 18 Feb 2009 13:19:12 -0800 (PST), JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote:
> On Feb 18, 3:12ï¿½pm, Richard Clark <kb7...@comcast.net> wrote:
>> On Wed, 18 Feb 2009 12:06:09 -0600, Frnak McKenney
>>
>> <fr...@far.from.the.madding.crowd.com> wrote:
>> >What has puzzled me is that I have run across designs that use
>> >(e.g.) a JFET isolation amplifier hooked to a whip or hunk-o-wire
>> >with the statement (or implication) that this is done to ",atch the
>> >antenna's impedance".
>>
>> Hi Frank,
>>
>> Matching provokes heated debates that in times past ran to 600+
>> postings - few knew what they were arguing (but enjoyed arguing
>> nonetheless) and little was offered.
>>
>> A JFET at these frequencies does satisfy the naive requirements of
>> "matching," but that giving you a reception solution doesn't always
>> follow.
--snip--
> Its not uncommon to have a high impedance input into a preamp.
> This is the one-size- fits-all approach. While its not good
> engineering for the purist it works quite well to make a casual user
> happy and may be the practical solution for even the professional
> installation..

Well, I think of myself as a "casual user", and _I'd_ like to be
happy. <grin!>

I don't mind throwing in a high-impedance (JFET) front end to my
antenna simply on the basis that (a) people who seem to know what
they're talking about recommend it and (b) I associate "high
impedance" with "sensitive" (which seems like a desirable quality
when you're working with microvolts). Someday, though, I'd like to
have build up a framework in which _I_ can see why it's appropriate,
or at least "does no harm". <grin!>

My brother Bruce is working on the same problem from a slightly
different angle; his experience is in software and digital stuff,
and I find myself unintentionally assuming the role of "RF expert"
without an EE degree or years of circuit design to back it up. Left
to myself, I'm perfectly capable of pushing stuff around on the

breadboard until it seems to work, but when I'm offering advice to
someone else I'd prefer a better response to his questions than
"someone else said so". <grin!>

> Ive had some experience limited working with VLF and it always
> seemed the thing that made the difference between a good and bad VLF
> antenna was the quality of the ground network

Thanks for the suggestion. Do you think that my current "ground", a
30x60' 4-way pipe-loop network (mixed copper and cast iron) with
thermal radiation elements might be... um, "less than
satisfactory"? <grin!>

Frank
--
"What one writer can make in the solitude of one room is something
no power can easily destroy." -- Salman Rushdie
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1251. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 16:57:55 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <XICdnQtZ7YaOGTzUnZ2dnUVZ_q_inZ2d@earthlink.com>
Source record: 17375
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

Mark,

Thank you for joining in.

On Wed, 18 Feb 2009 20:57:00 GMT, Mark Zenier <mzenier@eskimo.com> wrote:
> In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPinZ2d@earthlink.com>,
> Frnak McKenney <frnak@far.from.the.madding.crowd.com> wrote:
>
><Big Snip.>

And much appreciated by me and others. <grin!>

> Go find Radio-Electronics magazine for 1983, and read the five(?)
> articles by Ralph Burhans about receiving VLF.

I ran across one article he wrote, in PDF format, but couldn't
locate the articles. Have you seen them posted anywhere?

Also, Dr. Barry Ornitz was kind enough to send me a PDF file
describing two books available from the ARRL online store at
http://www.arrl.org/:

Mike Dennison and Jim Moritz: LF Today
Peter Dodd: The Low Frequency Expermenter's Handbook

He also took the time to offer a description of why a JFET input
matches a high impedance. The words seem to fit together, but I'm
still working on downconverting it to a frequency low enough for my
brain to accept. <grin!>

Frank
--
ï¿½People demand freedom of speech to make up for the freedom of
thought which they avoid.ï¿½ -- Soren Kierkegaard
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1252. Radio language listings for DRM.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 18:29:17 UTC
From: user <dag@allemaale.be>
Message-ID: <gns5hu$9dj$1@news.motzarella.org>
Source record: 17376
Cross-posted to: rec.radio.amateur.antenna,rec.radio.shortwave

```
DRM:

http://users.fulladsl.be/~spb13810/drmlist/

ordered by language, analogue:
http://users.fulladsl.be/~spb13810/swlist/

Ordered by transmitter:
http://users.fulladsl.be/~spb13810/txlist/

--
--
700+ Radio Stations on SW http://swstations.tk/
Shortwave transmissions in English, Francais, Nederlands, Deutsch,
Suid-Afrikaans, Chinese, Dansk, Urdu, Cantonese, Greek, Spanish,
Portuguese, ...
http://radiolanguages.tk Updated every month or so ....
```

1253. Re: CIA Official Reveals Demon Mr. Bush Knew No WMDs and LIED to Kill America

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 20:32:19 UTC
From: DDawg <anon@anon>
Message-ID: <2jp25h.j8s.17.1@news.alt.net>
Source record: 17377
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

YAWN

"Johnny America" <0988381noemailhere@hotmail.com> wrote in message
news:1ditp4tnv2mdue49ahp5gf86igtgp9sosj@4ax.com...
> Bushite Alex Jones "Obama is so much worst than Bush was"
>
> So, don't arrest him for treason that murdered Americans?
> Remember, Alex in eight years did everything he could to
> not allow any to discuss BUSH'S crimes spree. Doctoring
> the NIE?, prior plan from Condi? Or stealing 50 billion?
> I could easily go on for paragraphs on DOCUMENTED CRIMINAL
> ACTS - acts that Alex would not allow YOU to know need
> defense to save the lives of innocent Americans.
>
<Drivel deleted>

1254. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 20:44:34 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <555eea65-dac1-4e23-817f-e1e1397cd08a@w34g2000yqm.googlegroups.com>
Source record: 17378
Cross-posted to: sci.electronics.design,rec.radio.amateur.antenna

On Feb 22, 11:57 am, Frnak McKenney
<fr...@far.from.the.madding.crowd.com> wrote:
> Mark,
>
> Thank you for joining in.
>
> On Wed, 18 Feb 2009 20:57:00 GMT, Mark Zenier <mzen...@eskimo.com> wrote:
> > In article <PLOdnWEeL_XhpgfUnZ2dnUVZ_qPin...@earthlink.com>,
> > Frnak McKenney <fr...@far.from.the.madding.crowd.com> wrote:
>
> ><Big Snip.>
>
> And much appreciated by me and others. <grin!>
>
> > Go find Radio-Electronics magazine for 1983, and read the five(?)
> > articles by Ralph Burhans about receiving VLF.
>
> I ran across one article he wrote, in PDF format, but couldn't
> locate the articles. Have you seen them posted anywhere?
>
> Also, Dr. Barry Ornitz was kind enough to send me a PDF file
> describing two books available from the ARRL online store athttp://www.arrl.org/:
>
>   Mike Dennison and Jim Moritz: LF Today
>   Peter Dodd: The Low Frequency Expermenter's Handbook
>
> He also took the time to offer a description of why a JFET input
> matches a high impedance. The words seem to fit together, but I'm
> still working on downconverting it to a frequency low enough for my
> brain to accept. <grin!>
>
> Frank
> --
>   ÿPeople demand freedom of speech to make up for the freedom of
>   thought which they avoid.ÿ -- Soren Kierkegaard
> --
> Frank McKenney, McKenney Associates
> Richmond, Virginia / (804) 320-4887
> Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

The first time I tried to dabble with VLF the rx front end I found
from an university paper was nothing more than a triode(probably 1/2 a
12AX7) amp using a couple of TV horizontal osc coils as the tank

circuit. After breadboarding the rx up on an old TV chassis I kept it around for a few years soon loosing interest in the CW and man made data transmisssions. There seem to be quite a few naturally occuring sources of RF in that band that sound interesting, some almost musical.

Jimmie

1255. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 21:01:53 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <53jol.14398$as4.8800@nlpi069.nbdc.sbc.com>
Source record: 17379

christofire wrote:
> The 'loading coil' is distributed throughout the
> radiating element and, consequently, throughout the current distribution so
> it might be possible to reduce the I^2R loss using the normal-mode helix.

For a fixed length of loaded monopole, a high-Q
center-loading coil (or top-loading coil) will
result in greater efficiency. Helical elements
have been measured in numerous 75m shootouts to
be relatively low-Q and therefore lossier than,
e.g. Texas Bugcatcher Coils.
--
73, Cecil http://www.w5dxp.com

1256. Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 23:00:44 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
Source record: 17380
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

I've got this antenna:

<http://www.hdtvprimer.com/ANTENNAS/cm4228.html>

From my location the 2 largest DTV transmitter clusters are approximately 60 degrees apart.

How effective would it be to modify this antenna such that each of the 2 bays pointed to each transmitter cluster?

Yes, I know it's probably best to buy 2 antennae and couple them, but funds are really scarce and I've got time on my hands.

1. Would it work?
2. What are the practical down-sides (engineering blasphemies aside)?

I know this is not an elegant solution, so if your only comment is to say this, please resist.

Thanks.

1257. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 23:12:02 UTC
From: Tio Pedro <radioconnection@cox.net>
Message-ID: <9Zkol.46432$RJ7.41918@newsfe18.iad>
Source record: 17381
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

I'd think you'd really sacrifice the VHF hi-band coverage if you do so. Do you, or will you, have and digital stations that will remain in the VHF band?

Pete

1258. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 23:18:42 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <0rydnUbvq4nHQDzUnZ2dnUVZ8juWnZ2d@bt.com>
Source record: 17382

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:53jol.14398$as4.8800@nlpi069.nbdc.sbc.com...
> christofire wrote:
>> The 'loading coil' is distributed throughout the radiating element and,
>> consequently, throughout the current distribution so it might be possible
>> to reduce the I^2R loss using the normal-mode helix.
>
> For a fixed length of loaded monopole, a high-Q
> center-loading coil (or top-loading coil) will
> result in greater efficiency. Helical elements
> have been measured in numerous 75m shootouts to
> be relatively low-Q and therefore lossier than,
> e.g. Texas Bugcatcher Coils.
> --
> 73, Cecil http://www.w5dxp.com

That's interesting. I imagine it would be difficult to support a helix with a length of many metres whilst keeping the losses low, and of course there may be a greater total length of conductor in the continuously-loaded case. Otherwise, I can't think of a fundamental reason why a long normal-mode helix should have lower Q than a monopole of the same length with a series inductor somewhere in it.

The Tesla coil brigade appear to have sorted out suitable tube materials in lengths up to a couple of metres or so with low loss at frequencies up to the medium wave band or thereabouts.

Chris

1259. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 23:28:02 UTC
From: Bill M <radioexray@geeemail.com>
Message-ID: <gnsn2a02c53@news2.newsguy.com>
Source record: 17383
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Esther & Fester Bestertester wrote:
> I've got this antenna:
>
> <http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
> From my location the 2 largest DTV transmitter clusters are approximately 60
> degrees apart.
>
> How effective would it be to modify this antenna such that each of the 2 bays
> pointed to each transmitter cluster?
>
> Yes, I know it's probably best to buy 2 antennae and couple them, but funds
> are really scarce and I've got time on my hands.
>
> 1. Would it work?
> 2. What are the practical down-sides (engineering blasphemies aside)?
>
> I know this is not an elegant solution, so if your only comment is to say
> this, please resist.
>
> Thanks.
>
Can't find an old Tenna-Rotor for cheap? Me neither.

Hate to suggest hacking up your antenna but sure, I think you could
'bend' it down the middle 60 degrees and accomplish that.

In the analog days that might have resulted in terrible ghosting but the
latest 8VSB technology can operate even with a multipath signal at 1-2db
down.

(That also means that if you have a 2004 vintage DTV or DTV converter it
might not work if multipath comes into play)

Second idea. If you are in a fairly strong reception area why not
simply build a pair of homebrew antennas before hacking up your good
one? There's some plans on the web, one notorious one is on YouTube
with DIY instructions.

-Bill

1260. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 23:32:58 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <e62e7222-3d24-4d31-b9f7-614640da7a11@v19g2000yqn.googlegroups.com>
Source record: 17384
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Feb 22, 6:00 pm, Esther & Fester Bestertester <n...@me.really>
wrote:
> I've got this antenna:
>
> <http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
> From my location the 2 largest DTV transmitter clusters are approximately 60
> degrees apart.
>
> How effective would it be to modify this antenna such that each of the 2 bays
> pointed to each transmitter cluster?
>
> Yes, I know it's probably best to buy 2 antennae and couple them, but funds
> are really scarce and I've got time on my hands.
>
> 1. Would it work?
> 2. What are the practical down-sides (engineering blasphemies aside)?
>
> I know this is not an elegant solution, so if your only comment is to say
> this, please resist.
>
> Thanks.

I think hacking an antenna so that half is pointing in one direction
and half 60 degrees awy would be worse than just pointing the antenna
half way between the two TV clusters.

Jimmie

1261. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-22 23:38:55 UTC
From: Tio Pedro <radioconnection@cox.net>
Message-ID: <lmlol.19722$g63.6848@newsfe24.iad>
Source record: 17385
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf

Well, if funds are tight, and you have time, build two of
these antennas designed by Kent Britain. They'll work
better than the antenna you cited (for UHF), and also
have the benefit of being 75-ohm impedance.

Pete k1zjh

1262. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 01:27:22 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com>
Source record: 17386
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Sun, 22 Feb 2009 15:00:44 -0800, Esther & Fester Bestertester
<not@me.really> wrote:

><http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
>From my location the 2 largest DTV transmitter clusters are approximately 60
>degrees apart.
>
>How effective would it be to modify this antenna such that each of the 2 bays
>pointed to each transmitter cluster?

hacksaw the top and bottom angle bars to just break the lip that
extends out from the mast (rather than lays against the mast).

Bend the angle bars and screen 60 degrees along the length of the mast
so that each side points towards the separate transmitter clusters.
(Giving the appearance of a ship prow pointing halfway between the two
clusters.)

Effectivity? You lose up to 3dB gain; your nulls fill in somewhat;
you don't spend any money.

73's
Richard Clark, KB7QHC

1263. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 02:19:27 UTC
From: Frnak McKenney <frnak@far.from.the.madding.crowd.com>
Message-ID: <ALydndmLdugymj_UnZ2dnUVZ_rXinZ2d@earthlink.com>
Source record: 17387

On Sat, 21 Feb 2009 22:13:47 -0800, Richard Clark <kb7qhc@comcast.net> wrote:
> On Sat, 21 Feb 2009 19:37:34 -0600, Frnak McKenney
><frnak@far.from.the.madding.crowd.com> wrote:
--snip--
>>Google led me to the AAVSO site (www.aavso.org) which led me to the
>>Yahoo VLF_Group. Aaaaaaaaaaaaaaauuuuuuuggggh! A circuit that can
>>replace capacitors or inductors? My first reaction is "technology
>>at a level indistunguisable from black magic".
>>
>>I don't think I'm in Kansas any more.
>
> Gyrators have been around for a very long time, and can be found in a
> billion telephones, one probably within reach of you at the moment.
> They use telephones in Kansas don't they, Toto? You can build one
> with four components (none of them an inductor) to make an inductor

That's what the man said... I saw the schematics for Gyrators I-III,
and I need to go back and re-read the decriptive text.

> more precisely than you could winding one.

That doesn't take much. I've had days recently where I felt like I
could wind a mile of wire around a ferrite rod and _still_ not make
an inductor. <grin!>

> If you truly want to be overwhelmed with the dark arts, try googling
> for "magnetic amplifiers." (Art would go ballistic knowing such a
> topic was in practice looooong before he left second form.) No tubes,
> no transistors, and the orginal "solid state" design. As this may
> sound as if it wanders from the subject of RF, add the name Ernst F.
> W. Alexanderson to any search.

Noted and filed, but I think I'm beginning to be "overwhelmed by
insurmountable opportunities". <grin!>

--snip--
(Re: the Mohican antenna circuitry)
>>Of the five bands (A-E, SW3 positions 5-1), the only one which seems
>>different is "E", with an additional 130pF cap between the antenna
>>and the tank circuit.
>>
>>Is that what you're referring to?
>
> I am merely pointing out the obvious application of a tapped
> inductor of the tuned front end serving as impedance match to an
> high-Z antenna (the topic of your choice).

Oh. Okay. "Parallel LC (tank) circuit = high impedance. Coil tapped
to match lower impedance". Gotcha. I got lost trying to figure out
your reference to "conventional bands".

> ... The schematic abounds in examples.

Yup. You don't see many AM/FM radios these days with three tank
circuits per band. <grin!>

> ... One
> need only substitute values to serve the right frequency band - a
> simple exercise in reverse engineering employed since Hertz drew a
> spark across a gap at the base of a loop.

Which was, in its own time, pretty close to "magic".

I've been trying to stir some excitement in the one niece and nephew
who are talking of studying engineering next year, but it's tough.
They seem to be so constantly surrounded by wonders that they take
them for granted.

--snip--
> ... Your learning lesson of maintaining the
> chassis ground with the trace is classic too. The discovery of
> corrosion brings up the common practice of taking ALL the tubes out
> and putting them back in to solve problems.

It's still surprising to me just how often taking something apart
and putting it together again will get it working again. Doesn't
even require mystical passes with my hands (but I occasionally add
them anyway <grin!>).

> ... Tightening ALL screws is
> another hard learned lesson that bench techs either get or don't get.

Finished with the Mohican this afternoon. I wound up taking out the
eleven machine screws around the IF/audio PC board out (they were
all still tight, FYI). I then ran some fine steel wool around in
the gap and reassembled it; turned out that I had to unbolt the
audio transformer and 1/4" earphone jack to get the lockwashers and
nuts back on four of them. When I finished there was no leftover
hardware, a small miracle in itself.

It still doesn't buzz. (Yayyyyy!)

> You probably could have got away with cheaper transistors by also
> substituting the bias diodes (56-7s) - but as events bore out, the
> transistors were good. If you note the difference between the base
> and emitter voltages, there is only about a tenth volt there. If I am
> to presume the diode call-out is for an 1N56, it is germanium too.

Oh. A 56-7 is a 1N56? I wasn't sure about substituting them, and
finding any Germanium parts on this side of the Pond is tough.

I was about ready to bypass the entire audio section and wire in a
small LM386-or-similar amplifier in its place. Might still do it
next time.

> What is more amazing is this wasn't about the decrepitude of the
> electrolytic capacitors which usually suffer with time if they are not
> used for a long while.

When I first heard the buzz, my first instinct was to check the
electrolytics. I even tried parallelling the X7 emitter bypass, but
because _that_ time I did it by hooking my jumpers to the component
leads on top of the PC board, the effort had no effect. Ack! Phlbbbbt!
So _close_...

I have to say that those Gyrator circuits are really appealing. I
may throw one togehter just to see what happens. Thanks for
pointing me at them. (Now if someone would just design a "network
component" that replaced _intelligence_ with four components, none
of them involving intelligence... <grin!>)

Thanks again for your feedback.

Frank
--
Fashion is...a search for a new language to discredit the old,
a way in which each generation can repudiate its immediate
predecessor and distinguish itself from it.
-- Fernand Braudel/Civilization & Capitalism, 15th-18th Century
--
Frank McKenney, McKenney Associates
Richmond, Virginia / (804) 320-4887
Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

1264. Re: Radio language listings for DRM.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 02:26:12 UTC
From: PocketRadio <sidwellfriends@aol.com>
Message-ID: <1bf84b03-966b-4e1f-b310-f6ead5b1bf9e@f3g2000yqf.googlegroups.com>
Source record: 17388

On Feb 22, 1:29 pm, user <d...@allemaale.be> wrote:
> DRM:
>
> http://users.fulladsl.be/~spb13810/drmlist/
>
> ordered by language, analogue:http://users.fulladsl.be/~spb13810/swlist/
>
> Ordered by transmitter:http://users.fulladsl.be/~spb13810/txlist/
>
> --
> --
> 700+ Radio Stations on SWhttp://swstations.tk/
> Shortwave transmissions in English, Francais, Nederlands, Deutsch,
> Suid-Afrikaans, Chinese, Dansk, Urdu, Cantonese, Greek, Spanish,
> Portuguese, ...http://radiolanguages.tk Updated every month or so ....

"Death of Digital Radio Mondiale in 2008 as well?"

"From both formal and informal discussions among participants at the
HFCC, it is now clear that the proposed DRM (Digital Radio Mondiale)
system, that would have converted analogue Shortwave to digital, FM
like quality reception would hardly be implemented if ever on a large
scale, beyond the current experimental stage."

http://tinyurl.com/b6z5lr

"Why don't you use DRM on Shortwave?"

"DRM is the acronym of Digital Radio Mondiale, a new technology
intended to offer digital, almost FM, quality to Shortwave, Long Wave
and Medium Wave (AM) broadcasts. Unfortunately DRM is incompatible
with ordinary Shortwave radios and requires buying new receivers, that
are not currently available in mass production, or at a cost that is
anywhere close to a conventional, analogue Shortwave receiver... Some
large companies are pushing DRM by convincing program producers and
broadcasters to start airing in DRM ahead of time, but unless there is
mass availability and penetration of receivers on the listeners side,
this will remain - unfortunately - a technological experiment, and
broadcasters using it to reach their listeners now, are clearly
throwing their money out of the window."

http://www.egradio.org/index.php?name=FAQ&id_cat=7

1265. Re: Radio language listings for DRM.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 02:28:00 UTC
From: PocketRadio <sidwellfriends@aol.com>
Message-ID: <727c03f0-f625-47c0-a092-0cbaf9531e83@a12g2000yqm.googlegroups.com>
Source record: 17389

On Feb 22, 1:29 pm, user <d...@allemaale.be> wrote:
> DRM:
>
> http://users.fulladsl.be/~spb13810/drmlist/
>
> ordered by language, analogue:http://users.fulladsl.be/~spb13810/swlist/
>
> Ordered by transmitter:http://users.fulladsl.be/~spb13810/txlist/
>
> --
> --
> 700+ Radio Stations on SWhttp://swstations.tk/
> Shortwave transmissions in English, Francais, Nederlands, Deutsch,
> Suid-Afrikaans, Chinese, Dansk, Urdu, Cantonese, Greek, Spanish,
> Portuguese, ...http://radiolanguages.tk Updated every month or so ....

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anywhere close to a conventional, analogue Shortwave receiver... Some
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broadcasters using it to reach their listeners now, are clearly
throwing their money out of the window."

http://www.egradio.org/index.php?name=FAQ&id_cat=7

1266. Re: Radio language listings for DRM.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 02:29:24 UTC
From: PocketRadio <sidwellfriends@aol.com>
Message-ID: <3f2abc0f-4763-4b9f-91a5-f91095d4113e@v15g2000yqn.googlegroups.com>
Source record: 17390

On Feb 22, 1:29 pm, user <d...@allemaale.be> wrote:
> DRM:
>
> http://users.fulladsl.be/~spb13810/drmlist/
>
> ordered by language, analogue:http://users.fulladsl.be/~spb13810/swlist/
>
> Ordered by transmitter:http://users.fulladsl.be/~spb13810/txlist/
>
> --
> --
> 700+ Radio Stations on SWhttp://swstations.tk/
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> Suid-Afrikaans, Chinese, Dansk, Urdu, Cantonese, Greek, Spanish,
> Portuguese, ...http://radiolanguages.tk Updated every month or so ....

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anywhere close to a conventional, analogue Shortwave receiver... Some
large companies are pushing DRM by convincing program producers and
broadcasters to start airing in DRM ahead of time, but unless there is
mass availability and penetration of receivers on the listeners side,
this will remain - unfortunately - a technological experiment, and
broadcasters using it to reach their listeners now, are clearly
throwing their money out of the window."

http://www.egradio.org/index.php?name=FAQ&id_cat=7

1267. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 04:02:05 UTC
From: nm5k@wt.net
Message-ID: <c794a0a7-5a5a-4140-9faf-5d9ceefb3f5a@v42g2000yqj.googlegroups.com>
Source record: 17391

On Feb 22, 3:01 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> christofire wrote:
> > The 'loading coil' is distributed throughout the
> > radiating element and, consequently, throughout the current distribution so
> > it might be possible to reduce the I^2R loss using the normal-mode helix.
>
> For a fixed length of loaded monopole, a high-Q
> center-loading coil (or top-loading coil) will
> result in greater efficiency. Helical elements
> have been measured in numerous 75m shootouts to
> be relatively low-Q and therefore lossier than,
> e.g. Texas Bugcatcher Coils.
> --
> 73, Cecil http://www.w5dxp.com

Yep... The only way to get a helical wound stick to really
work well is to have a decent length stinger on it.
You don't want to have to rely on coil turns alone
to tune the antenna. Capacitive loading adds less
loss too.
It's also better to wind the turns from the top down,
and have the lower part of the stick basically a wire
mast.
This will improve current distribution vs a constant
winding. But again, without some capacitance from
a decent stinger, it will be a dud.
It's much better to use a 20m stick with extra whip
for 40m, than it is to use a 40m stick with many
more turns and less stinger.
I used a 20m stick with about 5 feet of stinger on
40m, and it worked very well compared to a
single lumped coil.
But it wound the turns in the manner I prefer, with
them concentrated at the top.
So in effect, it was a single lumped coil of sorts,
just a long thin version.. :/

1268. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 07:23:52 UTC
From: N4RRL <n4rrl1959@gmail.com>
Message-ID: <d0367bf1-10ec-43f6-9be7-219f02e88bcd@j1g2000yqi.googlegroups.com>
Source record: 17392
Cross-posted to: rec.radio.amateur.antenna,sci.electronics.design

On Feb 17, 11:05 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
> "Phil Allison" <philalli...@tpg.com.au> wrote in message
>
> news:6vvkooFlviahU1@mid.individual.net...
>
>
>
> > "Frnak McKenney"
> > > http://ts.nist.gov/MeasurementServices/Calibrations/Upload/SP250-67.pdf
> > ** Just how big is this file - eh ??
> > Why did you limit replies to ONE newsgroup while posting to TWO ???
> > What sort to total FUCKING ASSHOLE are you ????
> > You fucking ASININE YANK cunt- head.
> > ..... Phil
>
> Uh-oh! Looks like somebody isn't getting enough fiber!

I think he just has "Little P***** Syndrome".
So Sorry Phil for the little D***!!!! HI HI

Joe

1269. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 09:50:40 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net>
Source record: 17393
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf
>
> Well, if funds are tight, and you have time, build two of
> these antennas designed by Kent Britain. They'll work
> better than the antenna you cited (for UHF), and also
> have the benefit of being 75-ohm impedance.
>
> Pete k1zjh

If I DIY, I'll need only one; I'll keep the 4228 and couple it with the DIY.

How do I couple two antennae onto one cable?

Thanks.

1270. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 11:32:51 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <xD3mwNSjlooJFw5u@g3ohx.demon.co.uk>
Source record: 17394
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <2fu3q49rtg1qltrvtia6g76nu0l6jk1ipi@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Sun, 22 Feb 2009 15:00:44 -0800, Esther & Fester Bestertester
><not@me.really> wrote:
>
>><http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>>
>>From my location the 2 largest DTV transmitter clusters are approximately 60
>>degrees apart.
>>
>>How effective would it be to modify this antenna such that each of the 2 bays
>>pointed to each transmitter cluster?
>
>hacksaw the top and bottom angle bars to just break the lip that
>extends out from the mast (rather than lays against the mast).
>
>Bend the angle bars and screen 60 degrees along the length of the mast
>so that each side points towards the separate transmitter clusters.
>(Giving the appearance of a ship prow pointing halfway between the two
>clusters.)
>
>Effectivity? You lose up to 3dB gain; your nulls fill in somewhat;
>you don't spend any money.
>
If you can stand a loss of 3dB, I reckon that should work OK.

As you increase the angle between the two parts of the antenna, the
presently 'pointed' polar diagram will broaden and flatten, then it will
start going heart-shaped (with an increasingly deep null in the centre).
The only downside is that, when you are looking at one transmitter, you
will be picking any reflections coming from the direction of the other.
But, being digital, you will probably get away with it.

Just one point: I'm wondering if, for the highest gain towards each
transmitter, the bend should be 60 degrees - or maybe something a bit
more would be better?
--
Ian

1271. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 11:57:57 UTC
From: Scott <acepilotREMOVE@bloomer.net>
Message-ID: <v6udnRjJ9fLYEj_UnZ2dnUVZ_rrinZ2d@bright.net>
Source record: 17395
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Esther & Fester Bestertester wrote:
>>http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf
>>
>>Well, if funds are tight, and you have time, build two of
>>these antennas designed by Kent Britain. They'll work
>>better than the antenna you cited (for UHF), and also
>>have the benefit of being 75-ohm impedance.
>>
>>Pete k1zjh
>
>
> If I DIY, I'll need only one; I'll keep the 4228 and couple it with the DIY.
>
> How do I couple two antennae onto one cable?
>
> Thanks.
>
TV splitter. Any place such as Best Buy, Wal Mart, Radio Shack should
have them. Normally used to split one antenna to two TVs. Just reverse
it and put it up by the antennas. This will "combine" the two antennas
and send the signals down one coax to the TV.

Scott
N0EDV

1272. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 12:18:10 UTC
From: Highland Ham <rfburns@allbands.net>
Message-ID: <G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net>
Source record: 17396
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

```
>> How do I couple two antennae onto one cable?
>>
>> Thanks.
>>
> TV splitter. Any place such as Best Buy, Wal Mart, Radio Shack should
> have them. Normally used to split one antenna to two TVs. Just reverse
> it and put it up by the antennas. This will "combine" the two antennas
> and send the signals down one coax to the TV.
>
> Scott N0EDV
==========================================
Have a Time Warner labeled cable TV splitter here: 5 -1000 MHz with
F-type female connectors. Attenuation 3.5 dB applicable to each channel
Ex US fleamarket

Frank GM0CSZ / KN6WH
```

1273. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 12:48:26 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <tWwol.13038$W06.11032@flpi148.ffdc.sbc.com>
Source record: 17397

nm5k@wt.net wrote:
> Yep... The only way to get a helical wound stick to really
> work well is to have a decent length stinger on it.

One thing stands out loud and clear from the 75m
mobile shootout results. The longer the straight
high current bottom section under the loading coil,
the greater the radiated signal. The best 75m
mobile antennas that I have ever seen were not
center-loaded. They were top loaded.

One was my entry which was a CB whip with a
horizontal top loading coil and capacity hat at
the top which equaled the top-rated bugcatchers
and screwdrivers and bested all the others.

The other was a 10 foot long, 2 inch diameter
copper pipe with a loading coil and top hat
on top out in El Paso. I forget who entered it.
--
73, Cecil http://www.w5dxp.com

1274. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 13:12:29 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <rlQAJ4B9CqoJFw5Z@g3ohx.demon.co.uk>
Source record: 17398
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <G42dnR3iQYKeCT_UnZ2dnUVZ8vCdnZ2d@pipex.net>, Highland Ham
<rfburns@allbands.net> writes
>
>>> How do I couple two antennae onto one cable?
>>>
>>> Thanks.
>>>
>> TV splitter. Any place such as Best Buy, Wal Mart, Radio Shack
>>should have them. Normally used to split one antenna to two TVs.
>>Just reverse it and put it up by the antennas. This will "combine"
>>the two antennas and send the signals down one coax to the TV.
>> Scott N0EDV
>==
>Have a Time Warner labeled cable TV splitter here: 5 -1000 MHz with
>F-type female connectors. Attenuation 3.5 dB applicable to each
>channel Ex US fleamarket
>
>Frank GM0CSZ / KN6WH

If it had been for analogue, I would have said no, no, no, no, no, no -
never EVER use a wideband splitter to combiner two antenna feeds. When
you are looking at one transmitter, you will be picking any reflections
coming from the direction of the other. However, as this is digital, you
may get away with it (just like bending the antenna to obtain two
lobes).

However, you are far, far better off with a separate feeder and a 2-way
A/B switch. They are only a few dollars each.
--
Ian

1275. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 13:26:58 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gnu872$rc0s$1@tr22n12.aset.psu.edu>
Source record: 17399

Frnak McKenney wrote:

> In my current state of ignorance of the subject, this sentence has
> the appearance of a Zen koan: something that sounds non-sensical at
> first glance, but which, after sufficient time and effort studying,
> will undoubtedly become so blindingly obvious as to appear trivial.
> Thank you... I think. <grin!>

As witnessed by the great Zen master, Yogi Berra......

Sorry, catching up on the groups and couldn't resist.

- 73 de Mike N3LI -

1276. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 13:43:05 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gnu95d$rc0u$1@tr22n12.aset.psu.edu>
Source record: 17400

Cecil Moore wrote:
> nm5k@wt.net wrote:
>> Yep... The only way to get a helical wound stick to really
>> work well is to have a decent length stinger on it.
>
> One thing stands out loud and clear from the 75m
> mobile shootout results. The longer the straight
> high current bottom section under the loading coil,
> the greater the radiated signal. The best 75m
> mobile antennas that I have ever seen were not
> center-loaded. They were top loaded.

How well do they travel, Cecil? It's an experience with a capacitance hat at the top, I have to imagine a loading coil up there would be trying to turn the whole thing into a horizontal antenna.

> One was my entry which was a CB whip with a
> horizontal top loading coil and capacity hat at
> the top which equaled the top-rated bugcatchers
> and screwdrivers and bested all the others.
>
> The other was a 10 foot long, 2 inch diameter
> copper pipe with a loading coil and top hat
> on top out in El Paso. I forget who entered it.

That kind of answers my question for one way to support the coil on top. A big honkin' support. Did these folks travel with their antennas up? At least here in the PA mountains, the trees and a lot of the bridges don't put up with much antenna on top of the car.

My VHF/UHF antenna scores a few trees, and I ended up putting a string and loop on my Bugcatcher to pull the stinger down, and it still hits the occasional object.

1277. Re: vertical recomendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 14:33:54 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <7f8f28db-1885-458b-80cf-2bd7dcf1f2a5@f3g2000yqf.googlegroups.com>
Source record: 17301

Like they said you cant have both, but if you can do 25 feet around
the antenna, then try a HF9V. At 29ft it is under your 30ft height.

Lay out about 16-32 radials of 25 feet under it in a circle and you
have a nice multi band performer. You still have to pick 75 or 80 on
it but with
a good tuner you can do most of 75/80 curve. I love mine and its in
a limited area behind my house.

Scotty W7PSK

1278. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 16:22:26 UTC
From: Rob <nomail@example.com>
Message-ID: <slrngq5ja2.hv.nomail@xs7.xs4all.nl>
Source record: 17302
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> However, you are far, far better off with a separate feeder and a 2-way
> A/B switch. They are only a few dollars each.

And then, what? Walk to the switch to throw it from A to B or vice-versa
every time you zap to another channel?
That does not sound like "better off" to me...

1279. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 16:50:34 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5C813DA0154E27FB01AD9AF@news.sf.sbcglobal.net>
Source record: 17303
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> However, you are far, far better off with a separate feeder and a 2-way
> A/B switch. They are only a few dollars each.

Better in the sense of being there to throw the switch, maybe. But I've got a programmable-event DTV converter box which allows me to record shows automatically. The antenna set-up needs to be automated.

Thanks.

1280. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 17:15:51 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <LDeogvFHntoJFwvs@g3ohx.demon.co.uk>
Source record: 17304
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <slrngq5ja2.hv.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>> However, you are far, far better off with a separate feeder and a 2-way
>> A/B switch. They are only a few dollars each.
>
>And then, what? Walk to the switch to throw it from A to B or vice-versa
>every time you zap to another channel?
>That does not sound like "better off" to me...

As I'm sure you know, Sunshine, life's tough at times. 'Ye canna change
the laws of physics'.
--
Ian

1281. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 17:54:05 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <aio5q411vqju5khalr7tf402af6thmdnr4@4ax.com>
Source record: 17305
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Mon, 23 Feb 2009 11:32:51 +0000, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>>From my location the 2 largest DTV transmitter clusters are approximately 60
>>degrees apart.
...
>>Bend the angle bars and screen 60 degrees along the length of the mast
>>so that each side points towards the separate transmitter clusters.
...
> the bend should be 60 degrees - or maybe something a bit
>more would be better?

?

73's
Richard Clark, KB7QHC

1282. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 18:11:25 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <fFBol.23389$ZP4.1262@nlpi067.nbdc.sbc.com>
Source record: 17306

Michael Coslo wrote:
> How well do they travel, Cecil?

Here's an example of a pretty good 75m mobile antenna.

http://www.w5dxp.com/shootout.htm
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1283. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 19:04:16 UTC
From: dplatt@radagast.org
Message-ID: <gi8b76-90f.ln1@radagast.org>
Source record: 17307
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

>Better in the sense of being there to throw the switch, maybe. But I've got a
>programmable-event DTV converter box which allows me to record shows
>automatically. The antenna set-up needs to be automated.

Some DTV converter boxes support the CEA-909 or CEA-909A "smart antenna" interface, which allow a command to be sent to the antenna to change the antenna's behavior (directionality, frequency setting, etc.). A good DTV converter will identify the best antenna setting for each channel (I imagine this takes place during the initial scan-for-channels process) and will switch the antenna system each time it tunes to a new channel. In CEA-909A, the signalling can be done over the same coax cable which carries the antenna signal; the older CEA-909 requires a separate control cable.

Not all converter boxes support this feature, and of course you need to have an antenna which has Smart Antenna support.

Unfortunately, the Smart Antenna specs are not freely available... a hardcopy or download version costs somewhere in the neighborhood of $70. I don't know if anyone has reverse-engineered the data format.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1284. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 19:16:32 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <Vw7f8qDQYvoJFwuM@g3ohx.demon.co.uk>
Source record: 17308
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <aio5q411vqju5khalr7tf402af6thmdnr4@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Mon, 23 Feb 2009 11:32:51 +0000, Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>
>>>From my location the 2 largest DTV transmitter clusters are approximately 60
>>>degrees apart.
>...
>>>Bend the angle bars and screen 60 degrees along the length of the mast
>>>so that each side points towards the separate transmitter clusters.
>...
>> the bend should be 60 degrees - or maybe something a bit
>>more would be better?
>
>?
>
!!!

Well, if you put a smallish bend in the antenna of (say) 10 degrees, you will still have one lobe, although it wider and the gain will be lower. Only when you increase the bend to (maybe) 20 degrees will you start to get two separate lobes.

I'm somewhat guessing, but I reckon that the angle between the two lobes will continue to be less than the angle of bend until the bend is considerable - and possibly more than the 60 degrees between the transmitters. Eventually, the angle between the lobes will 'catch up' with the angle of the bend - but maybe only when the bend is a full 180 degrees.

So, for the two lobes really to be 60 degrees apart, maybe the bend will have to be (say) 65 degrees? What do you reckon?
--
Ian

1285. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 20:11:00 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ed06q4pegvmvk4u6kkr8ukik0jojocs0q2@4ax.com>
Source record: 17309
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Mon, 23 Feb 2009 19:16:32 +0000, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>I'm somewhat guessing, but I reckon that the angle between the two lobes
>will continue to be less than the angle of bend until the bend is
>considerable - and possibly more than the 60 degrees between the
>transmitters. Eventually, the angle between the lobes will 'catch up'
>with the angle of the bend - but maybe only when the bend is a full 180
>degrees.
>
>So, for the two lobes really to be 60 degrees apart, maybe the bend will
>have to be (say) 65 degrees? What do you reckon?

Hi Ian,

That sounds more reasonable, but I would suspect that when the hammer
is swung, that 5 degree slop will par for the course. It will take
more sophistication to peak both clusters independantly to prove your
point, but it could well be.

73's
Richard Clark, KB7QHC

1286. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 20:33:02 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <kLgjCwQ+fwoJFw74@g3ohx.demon.co.uk>
Source record: 17310
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <ed06q4pegvmvk4u6kkr8ukik0jojocs0q2@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Mon, 23 Feb 2009 19:16:32 +0000, Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>I'm somewhat guessing, but I reckon that the angle between the two lobes
>>will continue to be less than the angle of bend until the bend is
>>considerable - and possibly more than the 60 degrees between the
>>transmitters. Eventually, the angle between the lobes will 'catch up'
>>with the angle of the bend - but maybe only when the bend is a full 180
>>degrees.
>>
>>So, for the two lobes really to be 60 degrees apart, maybe the bend will
>>have to be (say) 65 degrees? What do you reckon?
>
>Hi Ian,
>
>That sounds more reasonable, but I would suspect that when the hammer
>is swung, that 5 degree slop will par for the course. It will take
>more sophistication to peak both clusters independantly to prove your
>point, but it could well be.
>
>73's
>Richard Clark, KB7QHC

I thought I wasn't talking total rubbish (like I usually do).

Unfortunately, I've just spotted a problem with bending the antenna. If
you cut partially through the two angle bars to weaken them, and then
bend them and the reflector backwards by 60 degrees, the 'feeder' which
joins the two halves of the antenna will have to be stretched - and you
won't be able to do that. You would have to replace it.

Nah... It would be silly to ruin a handsome antenna. Far better to put
up a separate antenna and feeder, and use some sort of A/B switch at the
TV end.
--
Ian

1287. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 20:59:13 UTC
From: raypsi <RBorowiak@gmail.com>
Message-ID: <ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
Source record: 17311
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Feb 22, 6:00 pm, Esther & Fester Bestertester <n...@me.really>
wrote:
> I've got this antenna:
>
> <http://www.hdtvprimer.com/ANTENNAS/cm4228.html>
>
> From my location the 2 largest DTV transmitter clusters are approximately 60
> degrees apart.
>
> How effective would it be to modify this antenna such that each of the 2 bays
> pointed to each transmitter cluster?
>
> Yes, I know it's probably best to buy 2 antennae and couple them, but funds
> are really scarce and I've got time on my hands.
>
> 1. Would it work?
> 2. What are the practical down-sides (engineering blasphemies aside)?
>
> I know this is not an elegant solution, so if your only comment is to say
> this, please resist.
>
> Thanks.

Hey OM
I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
bow tie, shows how to make one for chump change. Like 5 steel wire
coat hangers and a 2 ft 1X2 and some screws, and a balun transformer.
I saw it on youtube he makes a 4 bay bow tie antenna in under 5
minutes. It doesn't have a screen reflector, it's more like
bidirectional, well almost.

73 OM
de n8zu

1288. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 20:59:25 UTC
From: Tio Pedro <radioconnection@cox.net>
Message-ID: <S6Eol.23441$pX4.21842@newsfe08.iad>
Source record: 17312
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Esther & Fester Bestertester" <not@me.really> wrote in message
news:0001HW.C5C7B170013DD1A8B01AD9AF@news.sf.sbcglobal.net...
>> http://www.wa5vjb.com/references/CheapYagi4HDTV.pdf
>>
>> Well, if funds are tight, and you have time, build two of
>> these antennas designed by Kent Britain. They'll work
>> better than the antenna you cited (for UHF), and also
>> have the benefit of being 75-ohm impedance.
>>
>> Pete k1zjh
>
> If I DIY, I'll need only one; I'll keep the 4228 and couple it with the
> DIY.
>
> How do I couple two antennae onto one cable?
>
> Thanks.
>

You can't; one is 75 ohms and it looks like the one you have
is 300 ohms. You'd need a balun on the 300-ohm bowtie antenna to
make it 75 ohms, and then use a TV combiner/splitter to
combine the two antenna feedlines down to one single
feedline.

Pete

1289. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 22:49:33 UTC
From: SparkyGuy <sparkyguy@mumcrank.ck>
Message-ID: <0001HW.C5C867FD01689AAAB01AD9AF@news.sf.sbcglobal.net>
Source record: 17313
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> I guess nobody here is a youtuber?

This is my favorite ;-) (note that that's a wink emoti)

<http://www.youtube.com/watch?v=TRS4GMGJr7M>

1290. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 22:55:54 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
Source record: 17314
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
> bow tie, shows how to make one for chump change. Like 5 steel wire
> coat hangers and a 2 ft 1X2 and some screws, and a balun transformer.
> I saw it on youtube he makes a 4 bay bow tie antenna in under 5
> minutes. It doesn't have a screen reflector, it's more like
> bidirectional, well almost.

I don't see that one, but this one has several possible configurations, one
of which includes multiple bays aimed in different directions:

<http://www.youtube.com/watch?v=Y0m6AfR-9As&NR=1>

Thanks.

1291. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 23:17:51 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <aXIsFepf6yoJFw8J@g3ohx.demon.co.uk>
Source record: 17315
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>,
Esther & Fester Bestertester <not@me.really> writes
>> I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
>> bow tie, shows how to make one for chump change. Like 5 steel wire
>> coat hangers and a 2 ft 1X2 and some screws, and a balun transformer.
>> I saw it on youtube he makes a 4 bay bow tie antenna in under 5
>> minutes. It doesn't have a screen reflector, it's more like
>> bidirectional, well almost.
>
>I don't see that one, but this one has several possible configurations, one
>of which includes multiple bays aimed in different directions:
>
><http://www.youtube.com/watch?v=Y0m6AfR-9As&NR=1>
>
Umm .....
I've skipped through the video, so maybe I've missed one or two key
facts. However:
1. Are there three identical antenna, each pointing 120 degrees apart,
each with its own feeder, or
Are all three combined to make an approximately omnidirectional antenna?
2. The reflector seems to be far too close to the active elements. I
would have expected it to be a quarter wavelength away.
--
Ian

1292. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 23:31:37 UTC
From: SparkyGuy <sparkyguy@mumcrank.ck>
Message-ID: <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>
Source record: 17316
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> 2. The reflector seems to be far too close to the active elements. I
> would have expected it to be a quarter wavelength away.

It's "2x4" separation... ;-)

1293. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-23 23:45:44 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <gnliZNsoUzoJFwpP@g3ohx.demon.co.uk>
Source record: 17317
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>,
SparkyGuy <sparkyguy@mumcrank.ck> writes
>> 2. The reflector seems to be far too close to the active elements. I
>> would have expected it to be a quarter wavelength away.
>
>It's "2x4" separation... ;-)
>
OK. What IS "2x4" separation?
--
Ian

1294. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 00:56:58 UTC
From: SparkyGuy <sparkyguy@mumcrank.ck>
Message-ID: <0001HW.C5C885DA016F9A84B04379AF@news.sf.sbcglobal.net>
Source record: 17318
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

>> It's "2x4" separation... ;-)

> OK. What IS "2x4" separation?

Sorry, that was a little American-centric comment (must remember: Imperial Measurement System is not universal...)

The most basic standard lumber used in construction in N. America is the 2x4 stud (2 inches x 4 inches cross-section, available in 8, 10, 12, 16, and (I think) 20 foot lengths).

This is what the guy building the antenna is using as the structural wood members.

Dave

1295. Re: Smith Chart Tutorial

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 01:05:31 UTC
From: bulegoge@columbus.rr.com
Message-ID: <8795aeb2-dd5b-4005-ae86-893396655945@p20g2000yqi.googlegroups.com>
Source record: 17319

On Feb 16, 10:33 pm, buleg...@columbus.rr.com wrote:
> Hi,
>
> I have created a Smith Chart Tutorial located here:
>
> http://www.fourier-series.com/rf-concepts/smithchart.html
>
> It is comprised of flash programs with embedded audio. It allows you
> to learn the smith chart through the interactive nature of the flash
> program.
>
> I have completed three flash programs on this subject, and intend to
> write two more. The tutorial explains the smith chart, allows for
> capacitive/inductive matching and introduces how a transmision line
> affects the reflection coefficient.
>
> Good Luck with this
>
> Brent

I have completed the remainder of the Smith Chart tutorial. I have
added a program that shows how to use a transmission line stub as part
of the matching circuitry in place of a capacitor or inductor.

Link is here:

http://www.fourier-series.com/rf-concepts/smithchart.html

Brent

1296. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 01:49:31 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <DrOdnSvuwNuwzz7UnZ2dnUVZ_vGdnZ2d@posted.easystreetonline>
Source record: 17320
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

SparkyGuy wrote:
> . . .
> The most basic standard lumber used in construction in N. America is the 2x4
> stud (2 inches x 4 inches cross-section, available in 8, 10, 12, 16, and (I
> think) 20 foot lengths). . .

Actually, dimensional lumber has shrunk over the years just like candy bars and dollars. Only in very old houses will you find 2 X 4s that are 2" X 4". I'm getting pretty geezerly, and it was before my day -- they were down to 1-5/8" X 3-5/8" at the earliest I can remember. Now a "two-by-four" has shrunk to 1-1/2" X 3-1/2". When they get down to 2 X 4 cm, we can finally go metric without having to do any conversions. Maybe when they get down to 1/4 X 1/2 inch they'll get revalued like a peso?

Roy Lewallen, W7EL

1297. Re: Got my tube preamp dialed in

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 02:02:05 UTC
From: Steve <moparholic@hotmail.com>
Message-ID: <20090223210051.788$BC@newsreader.com>
Source record: 17321
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

mopeyzakween@yahoo.com wrote:
This is N8WWM Doug Adair ^^^

--
http://NewsReader.Com/

1298. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 06:23:41 UTC
From: kb9rqz@yahoooo.com
Message-ID: <li47q4lpb4sqh25bse27acjssghvsj2ud3@4ax.com>
Source record: 17322
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On 24 Feb 2009 02:02:05 GMT, Steve <moparholic@hotmail.com> wrote:

>mopeyzakween@yahoo.com wrote:
>This is N8WWM Doug Adair ^^^
why don't you follow your owbn advice and ignore him

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1299. Re: Designing an antenna for the 5000m band

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 07:03:55 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <f5b2714d-b8aa-4e85-b7be-f08340f1c8b1@l1g2000yqj.googlegroups.com>
Source record: 17323

On Feb 22, 9:19 pm, Frnak McKenney
<fr...@far.from.the.madding.crowd.com> wrote:
> On Sat, 21 Feb 2009 22:13:47 -0800, Richard Clark <kb7...@comcast.net> wrote:
> > On Sat, 21 Feb 2009 19:37:34 -0600, Frnak McKenney
> ><fr...@far.from.the.madding.crowd.com> wrote:
> --snip--
> >>Google led me to the AAVSO site (www.aavso.org) which led me to the
> >>Yahoo VLF_Group. Aaaaaaaaaaaaaauuuuuuuggggh! A circuit that can
> >>replace capacitors or inductors? My first reaction is "technology
> >>at a level indistunguisable from black magic".
>
> >>I don't think I'm in Kansas any more.
>
> > Gyrators have been around for a very long time, and can be found in a
> > billion telephones, one probably within reach of you at the moment.
> > They use telephones in Kansas don't they, Toto? You can build one
> > with four components (none of them an inductor) to make an inductor
>
> That's what the man said... I saw the schematics for Gyrators I-III,
> and I need to go back and re-read the decriptive text.
>
> > more precisely than you could winding one.
>
> That doesn't take much. I've had days recently where I felt like I
> could wind a mile of wire around a ferrite rod and _still_ not make
> an inductor. <grin!>
>
> > If you truly want to be overwhelmed with the dark arts, try googling
> > for "magnetic amplifiers." (Art would go ballistic knowing such a
> > topic was in practice looooong before he left second form.) No tubes,
> > no transistors, and the orginal "solid state" design. As this may
> > sound as if it wanders from the subject of RF, add the name Ernst F.
> > W. Alexanderson to any search.
>
> Noted and filed, but I think I'm beginning to be "overwhelmed by
> insurmountable opportunities". <grin!>
>
> --snip--
> (Re: the Mohican antenna circuitry)
>
> >>Of the five bands (A-E, SW3 positions 5-1), the only one which seems
> >>different is "E", with an additional 130pF cap between the antenna
> >>and the tank circuit.
>

> >>Is that what you're referring to?
>
> > I am merely pointing out the obvious application of a tapped
> > inductor of the tuned front end serving as impedance match to an
> > high-Z antenna (the topic of your choice).
>
> Oh. Okay. "Parallel LC (tank) circuit = high impedance. Coil tapped
> to match lower impedance". Gotcha. I got lost trying to figure out
> your reference to "conventional bands".
>
> > ... The schematic abounds in examples.
>
> Yup. You don't see many AM/FM radios these days with three tank
> circuits per band. <grin!>
>
> > ... One
> > need only substitute values to serve the right frequency band - a
> > simple exercise in reverse engineering employed since Hertz drew a
> > spark across a gap at the base of a loop.
>
> Which was, in its own time, pretty close to "magic".
>
> I've been trying to stir some excitement in the one niece and nephew
> who are talking of studying engineering next year, but it's tough.
> They seem to be so constantly surrounded by wonders that they take
> them for granted.
>
> --snip--
>
> > ... Your learning lesson of maintaining the
> > chassis ground with the trace is classic too. The discovery of
> > corrosion brings up the common practice of taking ALL the tubes out
> > and putting them back in to solve problems.
>
> It's still surprising to me just how often taking something apart
> and putting it together again will get it working again. Doesn't
> even require mystical passes with my hands (but I occasionally add
> them anyway <grin!>).
>
> > ... Tightening ALL screws is
> > another hard learned lesson that bench techs either get or don't get.
>
> Finished with the Mohican this afternoon. I wound up taking out the
> eleven machine screws around the IF/audio PC board out (they were
> all still tight, FYI). I then ran some fine steel wool around in
> the gap and reassembled it; turned out that I had to unbolt the
> audio transformer and 1/4" earphone jack to get the lockwashers and
> nuts back on four of them. When I finished there was no leftover
> hardware, a small miracle in itself.
>

> It still doesn't buzz. (Yayyyyy!)
>
> > You probably could have got away with cheaper transistors by also
> > substituting the bias diodes (56-7s) - but as events bore out, the
> > transistors were good. If you note the difference between the base
> > and emitter voltages, there is only about a tenth volt there. If I am
> > to presume the diode call-out is for an 1N56, it is germanium too.
>
> Oh. A 56-7 is a 1N56? I wasn't sure about substituting them, and
> finding any Germanium parts on this side of the Pond is tough.
>
> I was about ready to bypass the entire audio section and wire in a
> small LM386-or-similar amplifier in its place. Might still do it
> next time.
>
> > What is more amazing is this wasn't about the decrepitude of the
> > electrolytic capacitors which usually suffer with time if they are not
> > used for a long while.
>
> When I first heard the buzz, my first instinct was to check the
> electrolytics. I even tried parallelling the X7 emitter bypass, but
> because _that_ time I did it by hooking my jumpers to the component
> leads on top of the PC board, the effort had no effect. Ack! Phlbbbbt!
> So _close_...
>
> I have to say that those Gyrator circuits are really appealing. I
> may throw one togehter just to see what happens. Thanks for
> pointing me at them. (Now if someone would just design a "network
> component" that replaced _intelligence_ with four components, none
> of them involving intelligence... <grin!>)
>
> Thanks again for your feedback.
>
> Frank
> --
>   Fashion is...a search for a new language to discredit the old,
>   a way in which each generation can repudiate its immediate
>   predecessor and distinguish itself from it.
>   -- Fernand Braudel/Civilization & Capitalism, 15th-18th Century
> --
> Frank McKenney, McKenney Associates
> Richmond, Virginia / (804) 320-4887
> Munged E-mail: frank uscore mckenney ayut mined spring dawt cahm (y'all)

One of the most common places gyrators are used today is in graphic
equalizers. I wonder if a graphic equalizer could be built to cover
the VLF band complete with LED bargraph(grim). The first graphic eq I
ever saw had tons of coils in it and vaccums tubes and must have cost
a few $K. The second one I saw was made with ICs no coils and cost
about $500. It was replacing the first one I saw.

JImmie

1300. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 08:05:05 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <Y1jM9cAxo6oJFw$W@g3ohx.demon.co.uk>
Source record: 17324
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <gnliZNsoUzoJFwpP@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> writes
>In message <0001HW.C5C871D9016AEA4AB01AD9AF@news.sf.sbcglobal.net>,
>SparkyGuy <sparkyguy@mumcrank.ck> writes
>>> 2. The reflector seems to be far too close to the active elements. I
>>> would have expected it to be a quarter wavelength away.
>>
>>It's "2x4" separation... ;-)
>>
>OK. What IS "2x4" separation?

OK. Too late last night to 'twig'! But don't you mean "4x2"?
--
Ian

1301. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 09:17:04 UTC
From: SparkyGuy <sparkyguy@mumcrank.ck>
Message-ID: <0001HW.C5C8FB10018B1304B01AD9AF@news.sf.sbcglobal.net>
Source record: 17325
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> OK. Too late last night to 'twig'! But don't you mean "4x2"?

"Po-tay-to", "po-tah-to".

Actually I mean 1-1/2 x 3-1/2. ;-)

1302. Re: Helically-wound Monopoles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 09:31:49 UTC
From: nm5k@wt.net
Message-ID: <db1fdeb2-df72-434a-a877-719dffe088ee@g38g2000yqd.googlegroups.com>
Source record: 17326

On Feb 23, 6:48 am, Cecil Moore <nos...@w5dxp.com> wrote:
> n...@wt.net wrote:
> > Yep... The only way to get a helical wound stick to really
> > work well is to have a decent length stinger on it.
>
> One thing stands out loud and clear from the 75m
> mobile shootout results. The longer the straight
> high current bottom section under the loading coil,
> the greater the radiated signal. The best 75m
> mobile antennas that I have ever seen were not
> center-loaded. They were top loaded.
>
> One was my entry which was a CB whip with a
> horizontal top loading coil and capacity hat at
> the top which equaled the top-rated bugcatchers
> and screwdrivers and bested all the others.
>
> The other was a 10 foot long, 2 inch diameter
> copper pipe with a loading coil and top hat
> on top out in El Paso. I forget who entered it.
> --
> 73, Cecil http://www.w5dxp.com

That's why I carry an extra lower mast section.
Really helps the efficiency.
And the good part is adding more lower mast
below the coil does not change the resonant
frequency near as much as adding more stinger
above the coil. So in my case, I have my 10 ft
plastic bugcatcher, which is center loaded when
driving. But when I'm parked, I can add the extra
3 ft mast and get a pretty good boost.
And the resonant frequency hasn't changed too
much, and I can basically use the same coil taps,
and stinger lengths.
Or at least for the lower bands.
If you added three feet above the coil, the
resonant frequency would be way off from where
you started. Maybe not in the same band any more..

I wish I had one even taller.. I'd like to find a 5-6
foot lower mast. I think the Hustler bunch sells
one that tall.
Course.. Knowing me, I'd end up using both of them
coupled together if the antenna mount would stand

up to it. :/
Just the setup I have now with 8 ft under the coil
works pretty well. Some peoples whole antenna
is about that long.. :/
I use a 5 ft stinger whip on 80/40..
Various shorter ones for the higher bands when
the coil is bypassed.

1303. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 09:32:22 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <FG27hhIm67oJFwvc@g3ohx.demon.co.uk>
Source record: 17327
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <0001HW.C5C8FB10018B1304B01AD9AF@news.sf.sbcglobal.net>,
SparkyGuy <sparkyguy@mumcrank.ck> writes
>> OK. Too late last night to 'twig'! But don't you mean "4x2"?
>
>"Po-tay-to", "po-tah-to".
>
>Actually I mean 1-1/2 x 3-1/2. ;-)
>
Well, surely 1.5 inches is nowhere near enough? However, I suppose it
preserves that nice slimline look.
--
Ian

1304. @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 16:45:40 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <UuVol.33016$cI2.20716@newsfe09.iad>
Source record: 17328

I was looking through some of my old antenna books and came across an article from K6TS about building a 20 Meter Collinear antenna. Has anyone ever built one, or have any input on if it would be worthwhile to pursue. Weather is getting warm here, so I was looking for another antenna project. 20 meters, vertical and ground mounted. So I was thinking about 1/2 Wave, 5/8 wave or the collinear.

Ken

1305. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 17:46:53 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <go1bq8geq1@news.jpl.nasa.gov>
Source record: 17329

Roy Lewallen wrote:
> SparkyGuy wrote:
>> . . .
>> The most basic standard lumber used in construction in N. America is
>> the 2x4 stud (2 inches x 4 inches cross-section, available in 8, 10,
>> 12, 16, and (I think) 20 foot lengths). . .
>
> Actually, dimensional lumber has shrunk over the years just like candy
> bars and dollars. Only in very old houses will you find 2 X 4s that are
> 2" X 4". I'm getting pretty geezerly, and it was before my day -- they
> were down to 1-5/8" X 3-5/8" at the earliest I can remember. Now a
> "two-by-four" has shrunk to 1-1/2" X 3-1/2". When they get down to 2 X 4
> cm, we can finally go metric without having to do any conversions. Maybe
> when they get down to 1/4 X 1/2 inch they'll get revalued like a peso?
>
> Roy Lewallen, W7EL
Finshed lumber 2x4's have never been 2 inches by 4 inches. That's the
"rough lumber" size. However, as you point out, it changed from 5/8 to
1/2, which lets you get just a few more 2x4s out of that tree.
And hardwood is done even more differently.

Google is my friend, and the first hit was this: (which tells me that I
was wrong about the drive to get more boards out of a tree..)

http://www.fpl.fs.fed.us/documnts/misc/miscpub_6409.pdf says that back
in 1964:
"Declining markets for lumber have been a source of grave concern for
the lumber industry and the Forest Service. The industry has studied
its marketing problems and concluded that thinner sizes of boards and
dimension are desirable."

This fascinating document also talks about how it came to be.. (things
like saw kerf changes make a difference, too). Basically, they went out
in the 'teens and measured what people were actually producing and
selling as 2x4s.. which were typically 2" boards that had been surfaced
while green, and then shrank a bit after drying. Truly fascinating..
rail transport and the Panama canal also had their effects. One Mr.
Hoover (Sec'y of Commerce), a noted engineer(!) had an interest in
standardizing stuff (e.g. NBS, part of Commerce Dept) and started this
activity in 1921.

Upshot is that the change occurred in around 1960 (the doc refers to the
"battle of the 32nd inch" in the trade literature of the late 50s), with
everyone signing up to the "new" dimensions by 1963.

The drive to make it a bit smaller was for transportation costs,
apparently, not to get more boards out of a tree.

1306. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 18:19:14 UTC
From: wimabctel@tetech.nl
Message-ID: <ffc5b1c6-6a7e-4651-8bd9-837f3ddf0cfb@v13g2000vbb.googlegroups.com>
Source record: 17330

On 24 feb, 17:45, Ken Slimmer <k...@wa0sbu.com> wrote:
> I was looking through some of my old antenna books and came across an
> article from K6TS about building a 20 Meter Collinear antenna. Has
> anyone ever built one, or have any input on if it would be worthwhile to
> pursue. Weather is getting warm here, so I was looking for another
> antenna project. 20 meters, vertical and ground mounted. So I was
> thinking about 1/2 Wave, 5/8 wave or the collinear.
>
> Ken

Hello Ken,

I would not use the 5/8 wave antenna, unless you can make a dipole of
1.25lambda. The 5/8 wave vertical only gives the published gain over a
large good conducting ground plane. 3 or 4 quarter wave radials may
provide a reasonable floating ground for feeding the antenna, but it
is not a large ground plane.

Using a half wave has the disadvantage of the more complicated feeding
network. You may expect impedances up to kOhm range (depending in
thickness of the radiating element), so you need some high voltage
evaluation of your structure in case of >100W input power.

The advantage is the low requirement for the (floating) ground at the
feed point. Just 1 or 2 quarter wave radials are sufficient. These
radial wires may also slope down, as they carry low current, hence do
not have large influence on radiation pattern. When you have some
metal structure around you, you can use that as ground, eliminating
the need for radials. When you look to half wave CB antennas, most
ones do not have radials at all.

When you want to use horizontal polarization, a full wave center fed
dipole or 1.25lambda center fed antenna can be nice. Of course you
have to make something to rotate it….

When you want to design a vertical HW antenna from the ground up, I
have a document on my website dedicated to HW end-fed antenna design.
It also addresses high voltage issues. http://www.tetech.nl/divers/HWmonopoleNL1.pdf.
It is in Dutch language, but all comment in illustrations and formulas
is in English, so it can be helpful.

Best regards,

Wim
PA3DJS
www.tetech.nl
without abc, the mail is OK.

1307. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 20:10:18 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <39k8q45s8n9f25k37rc6gg2slbivqh7ck7@4ax.com>
Source record: 17331

On Tue, 24 Feb 2009 09:46:53 -0800, Jim Lux <james.p.lux@jpl.nasa.gov>
wrote:

>http://www.fpl.fs.fed.us/documnts/misc/miscpub_6409.pdf says that back
>in 1964:
(...)

Very nice historical document. However, it's 45 years old and much
has happened since then.

In the mid 1970's there was a movement to convert everything to metric
sizes which included using the actual lumber dimensions instead of the
approximations.
<http://www.awc.org/HelpOutreach/faq/FAQfiles/Metric_Lumber_Conv.html>
Instead of a 2x4, it's really a 38x89mm. Next time you're at the
lumber yard, ask for a 38x89 and enjoy the blank stares.

Things get messy with larger sizes, such as 4x8ft panels. Apparently,
the lumber industry is unable to handle more then 2 significant
figures. So, a 1220x2440mm panel becomes a 1200x2400mm panel. What's
a few mm between friends?

Also, lumber is shipped and wholesaled by the board foot, which is
independent of how it's cut.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1308. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 20:44:02 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <m_Yol.55230$2h5.24789@newsfe11.iad>
Source record: 17332

Wim;
Thanks for your input, I just noticed that I had my finger on the
shift key when I posted the subject, so it came out as @0 meter.. :-)
I don't ever plan on running high power, 100 watts is about my
limit. I do want to stick to putting a vertical up. I have an old 1/4
wave 40 meter vertical that I was going to scrounge parts from.

Ken

On Tue, 24 Feb 2009 10:19:14 -0800, wimabctel wrote:

> On 24 feb, 17:45, Ken Slimmer <k...@wa0sbu.com> wrote:
>> I was looking through some of my old antenna books and came across
>> an
>> article from K6TS about building a 20 Meter Collinear antenna. Has
>> anyone ever built one, or have any input on if it would be worthwhile
>> to pursue. Weather is getting warm here, so I was looking for another
>> antenna project. 20 meters, vertical and ground mounted. So I was
>> thinking about 1/2 Wave, 5/8 wave or the collinear.
>>
>> Ken
>
> Hello Ken,
>
> I would not use the 5/8 wave antenna, unless you can make a dipole of
> 1.25lambda. The 5/8 wave vertical only gives the published gain over a
> large good conducting ground plane. 3 or 4 quarter wave radials may
> provide a reasonable floating ground for feeding the antenna, but it is
> not a large ground plane.
>
> Using a half wave has the disadvantage of the more complicated feeding
> network. You may expect impedances up to kOhm range (depending in
> thickness of the radiating element), so you need some high voltage
> evaluation of your structure in case of >100W input power.
>
> The advantage is the low requirement for the (floating) ground at the
> feed point. Just 1 or 2 quarter wave radials are sufficient. These
> radial wires may also slope down, as they carry low current, hence do
> not have large influence on radiation pattern. When you have some
> metal structure around you, you can use that as ground, eliminating the
> need for radials. When you look to half wave CB antennas, most ones do
> not have radials at all.
>
> When you want to use horizontal polarization, a full wave center fed
> dipole or 1.25lambda center fed antenna can be nice. Of course you have

> to make something to rotate it….
>
> When you want to design a vertical HW antenna from the ground up, I have
> a document on my website dedicated to HW end-fed antenna design. It also
> addresses high voltage issues.
> http://www.tetech.nl/divers/HWmonopoleNL1.pdf. It is in Dutch language,
> but all comment in illustrations and formulas is in English, so it can
> be helpful.
>
> Best regards,
>
> Wim
> PA3DJS
> www.tetech.nl
> without abc, the mail is OK.

1309. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 21:11:27 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <55efddaf-076e-4af9-a918-b86105caa986@r22g2000vbp.googlegroups.com>
Source record: 17333

On Feb 24, 3:10 pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Tue, 24 Feb 2009 09:46:53 -0800, Jim Lux <james.p....@jpl.nasa.gov>
> wrote:
>
> >http://www.fpl.fs.fed.us/documnts/misc/miscpub_6409.pdfsays that back
> >in 1964:
>
> (...)
>
> Very nice historical document. However, it's 45 years old and much
> has happened since then.
>
> In the mid 1970's there was a movement to convert everything to metric
> sizes which included using the actual lumber dimensions instead of the
> approximations.
> <http://www.awc.org/HelpOutreach/faq/FAQfiles/Metric_Lumber_Conv.html>
> Instead of a 2x4, it's really a 38x89mm. Next time you're at the
> lumber yard, ask for a 38x89 and enjoy the blank stares.
>
> Things get messy with larger sizes, such as 4x8ft panels. Apparently,
> the lumber industry is unable to handle more then 2 significant
> figures. So, a 1220x2440mm panel becomes a 1200x2400mm panel. What's
> a few mm between friends?
>
> Also, lumber is shipped and wholesaled by the board foot, which is
> independent of how it's cut.
>
> --
> Jeff Liebermann   je...@cruzio.com
> 150 Felker St #D   http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann   AE6KS   831-336-2558

When I was a kid you could buy 2x4s that were just planed on two
sides. These were made by a local sawmill sold by the local building
supply and were cheaper than lumber with all four sides finished. You
could also buy full size unfinished lumber. These 2x4s werent 2x4
either and could be larger or smaller.

Jimmie

1310. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 21:50:52 UTC
From: raypsi <RBorowiak@gmail.com>
Message-ID: <1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
Source record: 17334
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Feb 23, 5:55 pm, Esther & Fester Bestertester <n...@me.really>
wrote:
> > I guess nobody here is a youtuber? I seen on youtube a guy has a 4 bay
> > bow tie, shows how to make one for chump change. Like 5 steel wire
> > coat hangers and a 2 ft 1X2 and some screws, and a balun transformer.
> > I saw it on youtube he makes a 4 bay bow tie antenna in under 5
> > minutes. It doesn't have a screen reflector, it's more like
> > bidirectional, well almost.
>
> I don't see that one, but this one has several possible configurations, one
> of which includes multiple bays aimed in different directions:
>
> <http://www.youtube.com/watch?v=Y0m6AfR-9As&NR=1>
>
> Thanks.

Hey OM
This is the youtube video I ment: http://www.youtube.com/watch?v=EWQhlmJTMzw
6 coathangers and 7 minutes long.

73 OM
de n8zu

1311. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 22:41:52 UTC
From: DaveC <me@bogusdomain.net>
Message-ID: <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
Source record: 17335
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> http://www.youtube.com/watch?v=EWQhlmJTMzw

What are the critical dimensions? If one wanted to use better materials (plastic rather than wood for the base; aluminum tube rather than wire), how does one calculate the dimensions?

I mean, "about 2 inches down" and "about 5-3/4 inches between elements", and "tips about 3 inches apart" are the results of some calculations. What are the calculations that determine these dimensions for this style of antenna?

Thanks,
--
DaveC
me@bogusdomain.net
This is an invalid return address
Please reply in the news group

1312. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 22:56:55 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
Source record: 17336
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>,
DaveC <me@bogusdomain.net> writes
>> http://www.youtube.com/watch?v=EWQhlmJTMzw
>
>What are the critical dimensions? If one wanted to use better materials
>(plastic rather than wood for the base; aluminum tube rather than wire), how
>does one calculate the dimensions?
>
>I mean, "about 2 inches down" and "about 5-3/4 inches between elements", and
>"tips about 3 inches apart" are the results of some calculations. What are
>the calculations that determine these dimensions for this style of antenna?
>
All dimensions will be approximately +/- 0.001".

Seriously, when the antenna simply gets dumped behind the TV set, do you
really think that any of the dimensions will be very critical?
--
Ian

1313. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 23:04:59 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <go1uer$c9r$1@news.jpl.nasa.gov>
Source record: 17338

Jeff Liebermann wrote:
> On Tue, 24 Feb 2009 09:46:53 -0800, Jim Lux <james.p.lux@jpl.nasa.gov>
> wrote:
>
>> http://www.fpl.fs.fed.us/documnts/misc/miscpub_6409.pdf says that back
>> in 1964:
> (...)
>
> Very nice historical document. However, it's 45 years old and much
> has happened since then.
But the key change, to dimensions on the half inch, happened before then.

>
> In the mid 1970's there was a movement to convert everything to metric
> sizes which included using the actual lumber dimensions instead of the
> approximations.
> <http://www.awc.org/HelpOutreach/faq/FAQfiles/Metric_Lumber_Conv.html>
> Instead of a 2x4, it's really a 38x89mm. Next time you're at the
> lumber yard, ask for a 38x89 and enjoy the blank stares.

I'm sure that went the way of all industrial metric conversions..
(perhaps someone on the newsgroup who buys lumber in Europe can provide
standard sizes used there..
>
> Things get messy with larger sizes, such as 4x8ft panels. Apparently,
> the lumber industry is unable to handle more then 2 significant
> figures. So, a 1220x2440mm panel becomes a 1200x2400mm panel. What's
> a few mm between friends?

A gap big enough to put your hand through? (the 40mm)
>
> Also, lumber is shipped and wholesaled by the board foot, which is
> independent of how it's cut.
>

There's a whole discussion of that aspect in the document, towards the
end. Lots of commentary on moisture content, shrinkage, etc.

1314. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 23:06:17 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <go1uh9$c9r$2@news.jpl.nasa.gov>
Source record: 17339

JIMMIE wrote:
> On Feb 24, 3:10 pm, Jeff Liebermann <je...@cruzio.com> wrote:
>> On Tue, 24 Feb 2009 09:46:53 -0800, Jim Lux <james.p....@jpl.nasa.gov>
>> wrote:
>>
>>> http://www.fpl.fs.fed.us/documnts/misc/miscpub_6409.pdfsays that back
>>> in 1964:
>> (...)
>>
>
> When I was a kid you could buy 2x4s that were just planed on two
> sides. These were made by a local sawmill sold by the local building
> supply and were cheaper than lumber with all four sides finished. You
> could also buy full size unfinished lumber. These 2x4s werent 2x4
> either and could be larger or smaller.
>
The linked document talks all about that..
S1S, S2S, S2SE, S4S, etc.
And the issues with saw kerfs, green dimensions, etc.

1315. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-24 23:10:44 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <p2v8q4dbgnht923k79h7mqkj2dfvg6bobs@4ax.com>
Source record: 17337

On Tue, 24 Feb 2009 10:19:14 -0800 (PST), wimabctel@tetech.nl wrote:

>Hello Ken,
>
>I would not use the 5/8 wave antenna, unless you can make a dipole of
>1.25lambda. The 5/8 wave vertical only gives the published gain over a
>large good conducting ground plane. 3 or 4 quarter wave radials may
>provide a reasonable floating ground for feeding the antenna, but it
>is not a large ground plane.

This and other points are deceptive. First, the performance you site
is indeed due to the plane of ground (not to be confused with our
usage of the term ground plane) to the extent of the conductivity of
ground out about 5 to 10 wavelengths away from the antenna. No
practical ground system is going to impact that.

The ground system placed below the antenna WILL impact gain, only
insofar as it shields the ground's loss contribution. Hence the large
number of radials.

>Using a half wave has the disadvantage of the more complicated feeding
>network. You may expect impedances up to kOhm range (depending in
>thickness of the radiating element), so you need some high voltage
>evaluation of your structure in case of >100W input power.

The advantage of the half wave is exactly for its high impedance in
relation to the loss of ground. The far ground still dominates low
angle launch characteristics, but if (like the large number of radials
offers) you lose less to ground, you have more in the air in all
directions.

>The advantage is the low requirement for the (floating) ground at the
>feed point. Just 1 or 2 quarter wave radials are sufficient. These
>radial wires may also slope down, as they carry low current, hence do
>not have large influence on radiation pattern.

If there is just 1, or if the 2 are not symmetrical, then the DO
contribute to the radiation pattern lobe shape. As to the degree or
notice, that is variable to the user/listener.

>When you have some
>metal structure around you, you can use that as ground, eliminating
>the need for radials. When you look to half wave CB antennas, most
>ones do not have radials at all.

They probably rely on the coax shield as a return path, which makes it
notoriously unreliable in its state of tune.

73's
Richard Clark, KB7QHC

1316. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 00:56:50 UTC
From: DaveC <me@bogusdomain.net>
Message-ID: <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>
Source record: 17340
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> Seriously, when the antenna simply gets dumped behind the TV set, do you
> really think that any of the dimensions will be very critical?

If one were to build something to better specs, with better materials, in a
much better location (not dumped behind anything)?

I presume there's antenna design formulae that result in the proper
dimensions for this type of antenna. Where can I find this information
(preferably on-line)?

With my Google criteria, I don't find much that's useful.

Thanks.
--
DaveC
me@bogusdomain.net
This is an invalid return address
Please reply in the news group

1317. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 02:23:24 UTC
From: dplatt@radagast.org
Message-ID: <slme76-1na.ln1@radagast.org>
Source record: 17341
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

>> Seriously, when the antenna simply gets dumped behind the TV set, do you
>> really think that any of the dimensions will be very critical?
>
>If one were to build something to better specs, with better materials, in a
>much better location (not dumped behind anything)?
>
>I presume there's antenna design formulae that result in the proper
>dimensions for this type of antenna. Where can I find this information
>(preferably on-line)?

The following may be useful:

http://www.digitalhome.ca/ota/superantenna/index.htm

Single- and double-bay Gray-Hoverman UHF antennas, which can be built
using either of several styles of reflector - a full screen, a split
screen, or a set of collinear rods.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1318. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 04:46:35 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
Source record: 17342
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Feb 24, 5:56 pm, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message <0001HW.C5C9B7B001B74859B0437...@news.sf.sbcglobal.net>,
> DaveC <m...@bogusdomain.net> writes>>http://www.youtube.com/watch?v=EWQhlmJTMzw
>
> >What are the critical dimensions? If one wanted to use better materials
> >(plastic rather than wood for the base; aluminum tube rather than wire), how
> >does one calculate the dimensions?
>
> >I mean, "about 2 inches down" and "about 5-3/4 inches between elements", and
> >"tips about 3 inches apart" are the results of some calculations. What are
> >the calculations that determine these dimensions for this style of antenna?
>
> All dimensions will be approximately +/- 0.001".
>
> Seriously, when the antenna simply gets dumped behind the TV set, do you
> really think that any of the dimensions will be very critical?
> --
> Ian

When I lived in the Air Force barracks a guy bought a very similar
antenna at Radio Shack. This was after cable had been removed because
so many people were stealing it.
Anyway it didnt take long before everyone started building their own
antenna copied from the RS one. The stock of brazing rods at the
motorpool was depleated very quickly.

Funny thing, I was accused of stealing cable though I wasnt hooked up
to it. I was able to demonstrate to the First Sargent that I could
receive Cable TV just off of the leakage from the system and argued
that the Cable company had the responsibility to prevent radiation
from their equipment. He agreed. What I learned was really happening
was that the guy in the room next to me had his rabbit ears connected
to the cable input of his TV and was broadcastinig it. About 10 rooms
could clearly pickup the signal from this. Unfortunately several
people had simply made illegal connections to the cable system. I
understand that the same thing is happening now with internaet service
in the barracks. My nephew tells me that it has been forbidden to have
a wireless router in the barracks for ths isame reason.

Jimmie

1319. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 05:11:02 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Gp4pl.16030$Si4.8836@newsfe22.iad>
Source record: 17343
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Dave Platt" <dplatt@radagast.org> wrote in message
news:slme76-1na.ln1@radagast.org...

< snip >

> The following may be useful:
>
> http://www.digitalhome.ca/ota/superantenna/index.htm
>
> Single- and double-bay Gray-Hoverman UHF antennas, which can be built
> using either of several styles of reflector - a full screen, a split
> screen, or a set of collinear rods.

I see the 300 ohm feedpoint for the single bay but the double bay is a
little different. I can see something's attached to the two bars that run
vertically and join the antennas (in the photo that shows the double bay
with PVC frame), but I can't tell if there's a balun there. Do we know what
the impedance is at that point?

I may need to try reaching the people who did the web page. Thanks.

"Sal"

1320. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 05:23:42 UTC
From: Bill M <radioexray@geeemail.com>
Message-ID: <go2kl512s3b@news2.newsguy.com>
Source record: 17344
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Sal M. Onella wrote:

>
> I see the 300 ohm feedpoint for the single bay but the double bay is a
> little different. I can see something's attached to the two bars that run
> vertically and join the antennas (in the photo that shows the double bay
> with PVC frame), but I can't tell if there's a balun there. Do we know what
> the impedance is at that point?

Given that the presumed bandwidth of the antenna ranges from 470 to 700
Mhz (not counting any VHF bonus) I figure there's no specific impedance
other than 'ballpark'.

-Bill

1321. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 08:10:11 UTC
From: nm5k@wt.net
Message-ID: <632bf34d-d765-464b-b2a5-f4f59d488f8a@e18g2000yqo.googlegroups.com>
Source record: 17345

On Feb 24, 2:44 pm, Ken Slimmer <k...@wa0sbu.com> wrote:
> Wim;
> Thanks for your input, I just noticed that I had my finger on the
> shift key when I posted the subject, so it came out as @0 meter.. :-)
> I don't ever plan on running high power, 100 watts is about my
> limit. I do want to stick to putting a vertical up. I have an old 1/4
> wave 40 meter vertical that I was going to scrounge parts from.

If you already have a 32 ft radiator, I would go with the half wave.
Feeding one is simple. I prefer the "gamma loop" type of feed.
I've built many of those, and they are simple to get going, and work
well.
The antenna as it is does not require radials to function as a
"complete" antenna. Most will work fine as is, with no radials.
But if one wants to further improve one, they can be further decoupled
from the feedline using decoupling sections.
The way I usually decouple a base fed half wave is to use a 1/4 wave
length of coax dropping down the supporting mast to a union which
I clamp a set of quarter wave radials. The shield of the coax is
bonded
to the radial set.
That will do a pretty good job of decoupling the feed line, if common
mode current ends up a problem.
But like I say, I've never had any problems using one with no radials.
I consider the decoupling as optional.
A 5/8 wave GP would be nice, but that will take a pretty tall radiator
on 20m, and may be unpractical.
Also, I don't use 1/4 wave radials under 5/8 verticals.
This page explains my position on that issue..
http://home.comcast.net/~nm5k/acompari.htm
If you want to avoid the funky high angle lobe you often
see on poorly designed 5/8 wl antennas, use 5/8, or 3/4
wave radials.
I've done very extensive testing of all the usual types of verticals
on 10m, and the 5/8 GP is the best performer of the bunch,
even with it's supposed warts.
Even the 1/2 waves I used with decoupling sections were never
as good as the 5/8 GP when working far off space wave stations.
But like I say, a 5/8 GP on 20m could end up being a real pain
to deal with. You are talking a 41 ft radiator, and that needs a
supporting mast under it. Radials under it too.
BTW, a 1/4 wl GP is not a bad antenna if you want to take the
easy way out. Needs radials though.
I haven't looked at the collinear design, but sounds like more

trouble than it's worth. Would be tall too.
Most higher gain collinear antennas used on 20m would
probably be horizontal wire affairs.

1322. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 09:49:42 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <OvDp7kG2QRpJFwFL@g3ohx.demon.co.uk>
Source record: 17346
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>,
DaveC <me@bogusdomain.net> writes
>> Seriously, when the antenna simply gets dumped behind the TV set, do you
>> really think that any of the dimensions will be very critical?
>
>If one were to build something to better specs, with better materials, in a
>much better location (not dumped behind anything)?
>
>I presume there's antenna design formulae that result in the proper
>dimensions for this type of antenna. Where can I find this information
>(preferably on-line)?
>
>With my Google criteria, I don't find much that's useful.
>
I don't think there's anything wrong with the materials. It's basically
a sound design. It's just that (unless I'm very much mistaken) the
elements need be around a quarterwave in front of the reflector (more
like 6 inches instead of the less than 2 inches shown), and you need to
mount the antenna 'in the clear', and point it towards the transmitter.
Obviously, with these materials, the antenna is best suited to mounting
in a loft, provided that the roof tiles and lining are adequately
transparent to UHF RF.
--
Ian

1323. balun for portable VHF dipole 2M to 6M

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 10:21:45 UTC
From: Richard Ferryman <richardferryman@btinternet.com>
Message-ID: <DYydncl8a7wnhjjUnZ2dnUVZ8j-WnZ2d@bt.com>
Source record: 17347

I have constructed a simple telescopic dipole for 2M to 6M to use with my FT-817ND. This works fairly well but it is prone to RF on the feeder and some noise pickup. This is almost certainly the result of feeding a balanced antenna with unbalanced coax. As I need a wideband balun I can't use traditional VHF tuned baluns. Question is which type of balun can I scale up (down?) to VHF from HF and maintain efficiency? Toroidal balun? Ferrite choke? Coiled coax? If ferrites or iron dust cores are involved then what mix?
Any ideas?
Dick G4BBH

1324. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 11:20:27 UTC
From: Highland Ham <rfburns@allbands.net>
Message-ID: <i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
Source record: 17348
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

JIMMIE wrote:
> snip
> Unfortunately several
> people had simply made illegal connections to the cable system. I
> understand that the same thing is happening now with internaet service
> in the barracks. My nephew tells me that it has been forbidden to have
> a wireless router in the barracks for ths isame reason.
>
> Jimmie
==========
Here in Britain it is illegal to 'tap' an individual's or
organisation's/company's Wifi for Internet Access without permission,
however with consent of the Wifi router owner it is permitted.
I know that for example in the Netherlands (usually large)houses are
often occupied by up to 20 students . With 1 Hi-speed /unlimited
download (A)DSL connection , they all share that 1 connection.
They don't need an e-mail address from the ISP but have one or more from
Google or Yahoo .

If I had a neighbour close by I would be happy to share my connection.

Frank GM0CSZ / KN6WH

1325. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 12:04:39 UTC
From: wimabctel@tetech.nl
Message-ID: <c001afa6-fd3b-4996-a928-dc86adc09e98@q18g2000vbn.googlegroups.com>
Source record: 17349

On 25 feb, 00:10, Richard Clark <kb7...@comcast.net> wrote:
> On Tue, 24 Feb 2009 10:19:14 -0800 (PST), wimabc...@tetech.nl wrote:
> >Hello Ken,
>
> >I would not use the 5/8 wave antenna, unless you can make a dipole of
> >1.25lambda. The 5/8 wave vertical only gives the published gain over a
> >large good conducting ground plane. 3 or 4 quarter wave radials may
> >provide a reasonable floating ground for feeding the antenna, but it
> >is not a large ground plane.
>
> This and other points are deceptive. First, the performance you site
> is indeed due to the plane of ground (not to be confused with our
> usage of the term ground plane) to the extent of the conductivity of
> ground out about 5 to 10 wavelengths away from the antenna. No
> practical ground system is going to impact that.
>
> The ground system placed below the antenna WILL impact gain, only
> insofar as it shields the ground's loss contribution. Hence the large
> number of radials.
>
> >Using a half wave has the disadvantage of the more complicated feeding
> >network. You may expect impedances up to kOhm range (depending in
> >thickness of the radiating element), so you need some high voltage
> >evaluation of your structure in case of >100W input power.
>
> The advantage of the half wave is exactly for its high impedance in
> relation to the loss of ground. The far ground still dominates low
> angle launch characteristics, but if (like the large number of radials
> offers) you lose less to ground, you have more in the air in all
> directions.

That advantage of high impedance is also the disadvantage, 1500 Ohm
end-fed impedance, or higher, is not uncommon. With 400W input power,
this leads to 1100Vp voltage (at 1500 Ohms). Without careful
construction, E-field at sharp edges will exceed 3000V/mm easily. This
will not result in full air breakdown (due to strong nun-uniformity of
E-field, but will result in undesired corona discharge.
>
> >The advantage is the low requirement for the (floating) ground at the
> >feed point. Just 1 or 2 quarter wave radials are sufficient. These
> >radial wires may also slope down, as they carry low current, hence do
> >not have large influence on radiation pattern.
>
> If there is just 1, or if the 2 are not symmetrical, then the DO

> contribute to the radiation pattern lobe shape. As to the degree or
> notice, that is variable to the user/listener.

End fed impedance for 3cm thick radiator is about 1500 Ohms, hence radiator current (middle) is about 5 times higher then feed current to the quarter wave radial. Therefore current*length product for radiator is 10 times as high as for the radial. When the radial is vertically oriented (worst case situation) influence on field from radiator is +/- 10%. So very worst case you are talking of < 1dB. When the radial runs horizontally, the effect on the vertical component under low elevation angle is negligible. As the original question relates to amateur service, mentioning: "hence do not have large influence on radiation pattern" is justified, in my opinion.

>
> >When you have some
> >metal structure around you, you can use that as ground, eliminating
> >the need for radials. When you look to half wave CB antennas, most
> >ones do not have radials at all.
>
> They probably rely on the coax shield as a return path, which makes it
> notoriously unreliable in its state of tune.

Mostly CB antennas are mounted on a metal mast, so part of the return current goes through the mast. You are right, in some cases this may lead to significant common mode current, but looking to my experience, this seldom resulted in untunable systems when lambda/dradiator is high. I did experience problems in antennas for VHF where thickness of radiator is no longer thin to wavelength. Fortunately, at such frequencies a simple ground is easy to make.
>
> 73's
> Richard Clark, KB7QHC

Wim
PA3DJS

1326. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 13:48:49 UTC
From: wimabctel@tetech.nl
Message-ID: <530f98fc-0b7e-48c0-83db-80ae980218ce@r3g2000vbp.googlegroups.com>
Source record: 17350

On 25 feb, 09:10, n...@wt.net wrote:
> On Feb 24, 2:44 pm, Ken Slimmer <k...@wa0sbu.com> wrote:
>
> > Wim;
> > Thanks for your input, I just noticed that I had my finger on the
> > shift key when I posted the subject, so it came out as @0 meter.. :-)
> > I don't ever plan on running high power, 100 watts is about my
> > limit. I do want to stick to putting a vertical up. I have an old 1/4
> > wave 40 meter vertical that I was going to scrounge parts from.
>
> If you already have a 32 ft radiator, I would go with the half wave.
> Feeding one is simple. I prefer the "gamma loop" type of feed.
> I've built many of those, and they are simple to get going, and work
> well.
> The antenna as it is does not require radials to function as a
> "complete" antenna. Most will work fine as is, with no radials.
> But if one wants to further improve one, they can be further decoupled
> from the feedline using decoupling sections.
> The way I usually decouple a base fed half wave is to use a 1/4 wave
> length of coax dropping down the supporting mast to a union which
> I clamp a set of quarter wave radials. The shield of the coax is
> bonded
> to the radial set.
> That will do a pretty good job of decoupling the feed line, if common
> mode current ends up a problem.
> But like I say, I've never had any problems using one with no radials.
> I consider the decoupling as optional.
> A 5/8 wave GP would be nice, but that will take a pretty tall radiator
> on 20m, and may be unpractical.
> Also, I don't use 1/4 wave radials under 5/8 verticals.
> This page explains my position on that issue..http://home.comcast.net/~nm5k/acompari.htm
> If you want to avoid the funky high angle lobe you often
> see on poorly designed 5/8 wl antennas, use 5/8, or 3/4
> wave radials.
> I've done very extensive testing of all the usual types of verticals
> on 10m, and the 5/8 GP is the best performer of the bunch,
> even with it's supposed warts.
> Even the 1/2 waves I used with decoupling sections were never
> as good as the 5/8 GP when working far off space wave stations.
> But like I say, a 5/8 GP on 20m could end up being a real pain
> to deal with. You are talking a 41 ft radiator, and that needs a
> supporting mast under it. Radials under it too.
> BTW, a 1/4 wl GP is not a bad antenna if you want to take the
> easy way out. Needs radials though.

> I haven't looked at the collinear design, but sounds like more
> trouble than it's worth. Would be tall too.
> Most higher gain collinear antennas used on 20m would
> probably be horizontal wire affairs.

Nice simulations, and nice results also!

Best regards,

Wim
PA3DJS
www.tetech.nl
the mail is ok when you remove abc.

1327. Re: balun for portable VHF dipole 2M to 6M

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 13:51:58 UTC
From: RUKidding@nospam.net
Message-ID: <k0eaq4h325il4mpd5ng8kevt24g16f29dk@4ax.com>
Source record: 17251

I've used about 8 - 9 inches of #43 beads on RG303 coax for a choke
balun on VHF/UHF with success.
RUK

On Wed, 25 Feb 2009 10:21:45 -0000, "Richard Ferryman"
<richardferryman@btinternet.com> wrote:

>I have constructed a simple telescopic dipole for 2M to 6M to use with my
>FT-817ND. This works fairly well but it is prone to RF on the feeder and
>some noise pickup. This is almost certainly the result of feeding a
>balanced antenna with unbalanced coax. As I need a wideband balun I can't
>use traditional VHF tuned baluns. Question is which type of balun can I
>scale up (down?) to VHF from HF and maintain efficiency? Toroidal balun?
>Ferrite choke? Coiled coax? If ferrites or iron dust cores are involved
>then what mix?
>Any ideas?
>Dick G4BBH
>

1328. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 16:54:48 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5CAB7D801F3517DB01AD9AF@news.sf.sbcglobal.net>
Source record: 17252
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> I don't think there's anything wrong with the materials.

Wood is a great retainer of moisture (indeed it holds a great quantity of water). Isn't this likely to electrically short (to some degree) the elements and reduce gain or... ?

1329. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 16:58:22 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5CAB8AE01F3838FB01AD9AF@news.sf.sbcglobal.net>
Source record: 17253
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> Here in Britain it is illegal to 'tap' an individual's or
> organisation's/company's Wifi

Can you please take this to another thread of its own?

1330. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 19:34:58 UTC
From: dplatt@radagast.org
Message-ID: <24jg76-b54.ln1@radagast.org>
Source record: 17255
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

>I don't think there's anything wrong with the materials. It's basically
>a sound design. It's just that (unless I'm very much mistaken) the
>elements need be around a quarterwave in front of the reflector (more
>like 6 inches instead of the less than 2 inches shown)

I don't think that this is necessarily true. There are many valid antenna designs in which the reflector spacing varies quite a lot from 1/4 wavelength.

In Yagi designs, for instance, the spacing between driven element and reflector has a big effect on the antenna's feedpoint impedance, and is sometimes set to yield a convenient feedpoint impedance match with the cable. It doesn't have all that much effect on forward gain.

With a "sheet reflector" antenna design, I suspect that the reflector spacing won't have much effect on either forward gain or on front-to-back ratio. It's entirely possible that (in this design) it was set as it was in order to result in a not-intolerable impedance match over the relatively broad range of frequencies that this antenna needs to be able to cover.

> and you need to
>mount the antenna 'in the clear', and point it towards the transmitter.

Yup, that's best.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1331. Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 19:58:19 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <1ebfd646-bfa7-40d8-88be-5f3958ff4277@l16g2000yqo.googlegroups.com>
Source record: 17254

Want to see if I can remove some of the RFI getting into the puter
(and maybe back into the rig).

So I want to wind some of the Keyboard/Mouse/Video cords in some
Donuts. Anyone know where I can grab em easy and REASONABLE :)

Scotty W7PSK

1332. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 20:07:41 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <tg2bq4hvgo4b9uvsjthat154dl4podku5j@4ax.com>
Source record: 17256

On Wed, 25 Feb 2009 04:04:39 -0800 (PST), wimabctel@tetech.nl wrote:

>> The advantage of the half wave is exactly for its high impedance in
>> relation to the loss of ground. The far ground still dominates low
>> angle launch characteristics, but if (like the large number of radials
>> offers) you lose less to ground, you have more in the air in all
>> directions.
>
...
>this leads to 1100Vp voltage (at 1500 Ohms). Without careful
>construction, E-field at sharp edges will exceed 3000V/mm easily.
...
> This
>will not result in full air breakdown (due to strong nun-uniformity of
>E-field, but will result in undesired corona discharge.

I would have thought they were the same. (Corona discharge is NOT air
breakdown? Is there some distinction to "full?")

However, this is not an exclusive disadvantage of a half-wave radiator
when a quarter-wave radiator can exhibit similar problems through
similar poor building practices. The same high potential "problem"
exists at the quarter-wave's distant end where the half-wave's is at
the near end, feed point. As the original poster posed this as a
single band antenna, a half wave has practical solutions if the
additional gain is deemed sufficient for the effort.

On the other hand, going from quarter-wave to 5/8ths does yield
benefit that exceeds +/- 10% or < 1dB.

73's
Richard Clark, KB7QHC

1333. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 20:43:21 UTC
From: stev eh <stevejhasdghsjhsdghjdghdghghghdhghgdgdhsgdsgdsgGDJHGJHSJHDGSJHGDJHGDJHGJH@TFIF.CO.UK>
Message-ID: <49a5ad68_3@mk-nntp-2.news.uk.tiscali.com>
Source record: 17257

Ian Jackson wrote:
> In message <0001HW.C5C9D75201BEB22FB04379AF@news.sf.sbcglobal.net>,
> DaveC <me@bogusdomain.net> writes
>>> Seriously, when the antenna simply gets dumped behind the TV set, do you
>>> really think that any of the dimensions will be very critical?
>>
>> If one were to build something to better specs, with better materials,
>> in a
>> much better location (not dumped behind anything)?
>>
>> I presume there's antenna design formulae that result in the proper
>> dimensions for this type of antenna. Where can I find this information
>> (preferably on-line)?
>>
>> With my Google criteria, I don't find much that's useful.
>>
> I don't think there's anything wrong with the materials. It's basically
> a sound design. It's just that (unless I'm very much mistaken) the
> elements need be around a quarterwave in front of the reflector (more
> like 6 inches instead of the less than 2 inches shown), and you need to
> mount the antenna 'in the clear', and point it towards the transmitter.
> Obviously, with these materials, the antenna is best suited to mounting
> in a loft, provided that the roof tiles and lining are adequately
> transparent to UHF RF.

Google bow tie tv antenna, similar in principal to the short backfire array.

Steve H

1334. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 21:36:43 UTC
From: jgboyles@aol.com
Message-ID: <428cd067-3b28-4653-957c-894783763c2b@x13g2000yqf.googlegroups.com>
Source record: 17258

On Feb 25, 1:58 pm, "R.Scott" <w7...@yahoo.com> wrote:
> Want to see if I can remove some of the RFI getting into the puter
> (and maybe back into the rig).
>
> So I want to wind some of the Keyboard/Mouse/Video cords in some
> Donuts. Anyone know where I can grab em easy and REASONABLE :)
>
> Scotty W7PSK

I get them from Mouser. They are 1-2 bucks apiece.

Gary N4AST

1335. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-25 23:51:19 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <go4lhr$os3$1@news.jpl.nasa.gov>
Source record: 17259

Richard Clark wrote:
> On Wed, 25 Feb 2009 04:04:39 -0800 (PST), wimabctel@tetech.nl wrote:
>
>>> The advantage of the half wave is exactly for its high impedance in
>>> relation to the loss of ground. The far ground still dominates low
>>> angle launch characteristics, but if (like the large number of radials
>>> offers) you lose less to ground, you have more in the air in all
>>> directions.
> ...
>> this leads to 1100Vp voltage (at 1500 Ohms). Without careful
>> construction, E-field at sharp edges will exceed 3000V/mm easily.
> ...
>> This
>> will not result in full air breakdown (due to strong nun-uniformity of
>> E-field, but will result in undesired corona discharge.
>
> I would have thought they were the same. (Corona discharge is NOT air
> breakdown? Is there some distinction to "full?")

One often makes a distinction between a corona discharge which exists as
a steady state sort of thing and the streamers which precede a "spark".
Both are air breakdown phenomena, but qualitatively different, and
both are different from a low pressure discharge like that found in a
fluorescent lamp or neon bulb, or from phenomena like St Elmo's Fire.

Field uniformity is only part of it, of course.

Bazelyan & Raizer, "Spark Discharge" from CRC Press, 1998, is probably
one of the better books on this.

1336. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 00:24:53 UTC
From: dave <dave@dave.dave>
Message-ID: <49a5e155$0$31144$bd467cd0@news.dslextreme.com>
Source record: 17260

R.Scott wrote:
> Want to see if I can remove some of the RFI getting into the puter
> (and maybe back into the rig).
>
> So I want to wind some of the Keyboard/Mouse/Video cords in some
> Donuts. Anyone know where I can grab em easy and REASONABLE :)
>
>
> Scotty W7PSK

http://www.palomar-engineers.com/

1337. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 01:09:24 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <v_Kdnc3kRuxadjjUnZ2dnUVZ_o-WnZ2d@posted.easystreetonline>
Source record: 17261

Jim Lux wrote:
>> breakdown? Is there some distinction to "full?")
>
> One often makes a distinction between a corona discharge which exists as
> a steady state sort of thing and the streamers which precede a "spark".
> Both are air breakdown phenomena, but qualitatively different, and both
> are different from a low pressure discharge like that found in a
> fluorescent lamp or neon bulb, or from phenomena like St Elmo's Fire.
> . . .

Most interesting. I've always thought that St. Elmo's fire was a corona discharge, and a quick web search indicates that it's apparently a very widely held misconception. What's the difference?

Roy Lewallen, W7EL

1338. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 01:56:57 UTC
From: Bill M <radioexray@geeemail.com>
Message-ID: <go4ste01r2l@news1.newsguy.com>
Source record: 17262
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Esther & Fester Bestertester wrote:
>> I don't think there's anything wrong with the materials.
>
> Wood is a great retainer of moisture (indeed it holds a great quantity of
> water). Isn't this likely to electrically short (to some degree) the elements
> and reduce gain or... ?
>
No doubt, so I don't think a wooden antenna is the final solution. Best
check out how the scheme might work with scrap wood and coathangers and
if that works then you could upgrade to finer materials for a more
permanent solution that works in the rain.

On the other hand it may work well for you in spite of the loss in gain.

-Bill

1339. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 04:06:05 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Oyopl.282$Rg3.263@newsfe17.iad>
Source record: 17263
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Highland Ham" <rfburns@allbands.net> wrote in message
news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...

>
> If I had a neighbour close by I would be happy to share my connection.
>
> Frank GM0CSZ / KN6WH

Nice idea in theory, bad idea in practice, since you can't monitor his PC.
If something illegal goes on from his computer, your IP address will be
logged as the source.

I note a valid objection to this thread going OT and will not post on it
again.

1340. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 11:24:28 UTC
From: wimabctel@tetech.nl
Message-ID: <fc362cb7-5824-4d0e-bd54-db2d211a62b4@v15g2000yqn.googlegroups.com>
Source record: 17264

On 26 feb, 02:09, Roy Lewallen <w...@eznec.com> wrote:
> Jim Lux wrote:
> >> breakdown? Is there some distinction to "full?")
>
> > > One often makes a distinction between a corona discharge which exists as
> > > a steady state sort of thing and the streamers which precede a "spark".
> > > Both are air breakdown phenomena, but qualitatively different, and both
> > > are different from a low pressure discharge like that found in a
> > > fluorescent lamp or neon bulb, or from phenomena like St Elmo's Fire.
>
> > > . . .
>
> Most interesting. I've always thought that St. Elmo's fire was a corona
> discharge, and a quick web search indicates that it's apparently a very
> widely held misconception. What's the difference?
>
> Roy Lewallen, W7EL

Hello Richard,

A "full air" breakdown is the situation where there is a full
conducting path between the two conductors through air. So the
current that goes into the conductors is mainly supported by real
electron flow through air and not dielectric displacement current.
The effect is strongly non-linear and shows hysteresis.

Imagine you have an antenna and you increase the input power
gradually. At a certain point somewhere in the construction air will
break down. When you have a full breakdown in a uniform field, you
will notice a stepwise change in SWR. To stop the breakdown, you have
to reduce the input power significantly (hysteresis effect). As most
amateurs have an in line SWR indicator, you will notice full air
breakdown and will check the installation.

In an RF "corona discharge", air only breaks down in the high field
strength area. As you will probably know, field strength is highest at
air/conductor boundary with small curvature (edges, needle tips).
Outside that area air will not break down and current in that region
is supported by displacement current. This effect may show only minor
hysteresis and you may not notice this during normal operation.

The voltage required to establish a corona discharge may be far below
the level to get a full air breakdown.

At the tips of a HW radiator, you will have highest field strength.
However when you bring a conductor close to that tip (and retune if

required), field strength will increase. This is also the case with HW end-fed radiators. At least the ground of your feeder, or the ground of the matching network will be relative close to the end of the HW resonator. For some formulas see the document referenced before.

I hope this clarifies the "full air breakdown" and "corona discharge" issue as used in my postings.

Best regards,

Wim
PA3DJS
www.tetech.nl
the address is still valid, but don't forget to remove abc.

1341. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 12:08:35 UTC
From: Scott <acepilotREMOVE@bloomer.net>
Message-ID: <sfSdnS4J6tXYGzvUnZ2dnUVZ_uidnZ2d@bright.net>
Source record: 17265
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Bill M wrote:

> Esther & Fester Bestertester wrote:
>
>>> I don't think there's anything wrong with the materials.
>>
>>
>> Wood is a great retainer of moisture (indeed it holds a great quantity
>> of water). Isn't this likely to electrically short (to some degree)
>> the elements and reduce gain or... ?
>
> No doubt, so I don't think a wooden antenna is the final solution. Best
> check out how the scheme might work with scrap wood and coathangers and
> if that works then you could upgrade to finer materials for a more
> permanent solution that works in the rain.
>
> On the other hand it may work well for you in spite of the loss in gain.
>
> -Bill

That's what spar varnish is for. Metal booms with the uninsulated
elements going through are probably more "shorted" than from wet wood!
When aluminum is out in the rain, it's just as wet as wood would be.
The water may detune it slightly. Wood can be a great choice for boom
material (with proper varnishing)...it would probably outlast an
aluminum one in a salt air environment....

Scott
N0EDV

1342. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 12:50:45 UTC
From: dave <dave@dave.dave>
Message-ID: <3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
Source record: 17266
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Sal M. Onella wrote:
> "Highland Ham" <rfburns@allbands.net> wrote in message
> news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...
>
>
>> If I had a neighbour close by I would be happy to share my connection.
>>
>> Frank GM0CSZ / KN6WH
>
> Nice idea in theory, bad idea in practice, since you can't monitor his PC.
> If something illegal goes on from his computer, your IP address will be
> logged as the source.
>
So?

1343. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 13:09:20 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <ec280372-769e-4aa4-bd5e-171e9dd4e177@v38g2000yqb.googlegroups.com>
Source record: 17267
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Feb 26, 7:08 am, Scott <acepilotREM...@bloomer.net> wrote:
> Bill M wrote:
> > Esther & Fester Bestertester wrote:
>
> >>> I don't think there's anything wrong with the materials.
>
> >> Wood is a great retainer of moisture (indeed it holds a great quantity
> >> of water). Isn't this likely to electrically short (to some degree)
> >> the elements and reduce gain or... ?
>
> > No doubt, so I don't think a wooden antenna is the final solution. Best
> > check out how the scheme might work with scrap wood and coathangers and
> > if that works then you could upgrade to finer materials for a more
> > permanent solution that works in the rain.
>
> > On the other hand it may work well for you in spite of the loss in gain.
>
> > -Bill
>
> That's what spar varnish is for. Metal booms with the uninsulated
> elements going through are probably more "shorted" than from wet wood!
> When aluminum is out in the rain, it's just as wet as wood would be.
> The water may detune it slightly. Wood can be a great choice for boom
> material (with proper varnishing)...it would probably outlast an
> aluminum one in a salt air environment....
>
> Scott
> N0EDV- Hide quoted text -
>
> - Show quoted text -

In this case the wood is being used as the feedpoint insulator.

Jimmie

1344. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 16:02:44 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <sqcdq4dve6lvbjh95b4qchdcvov99t23h1@4ax.com>
Source record: 17268

On Thu, 26 Feb 2009 03:24:28 -0800 (PST), wimabctel@tetech.nl wrote:

>I hope this clarifies the "full air breakdown" and "corona discharge"
>issue as used in my postings.

Hi Wim,

Fair enough in the short description where both require the ionization
of air.

73's
Richard Clark, KB7QHC

1345. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 16:48:55 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5CC07F70036DC69B01AD9AF@news.sf.sbcglobal.net>
Source record: 17269
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

>> Nice idea in theory, bad idea in practice, since you can't monitor his PC.
>> If something illegal goes on from his computer, your IP address will be
>> logged as the source.

> So?

Can you please take this to another thread of its own?

1346. Re: balun for portable VHF dipole 2M to 6M

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 19:04:50 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <2cpdq4hbv868224d1kpf66e4d0j91fhbd9@4ax.com>
Source record: 17270

On Wed, 25 Feb 2009 10:21:45 -0000, "Richard Ferryman"
<richardferryman@btinternet.com> wrote:

>I have constructed a simple telescopic dipole for 2M to 6M to use with my
>FT-817ND. This works fairly well but it is prone to RF on the feeder and
>some noise pickup. This is almost certainly the result of feeding a
>balanced antenna with unbalanced coax. As I need a wideband balun I can't
>use traditional VHF tuned baluns. Question is which type of balun can I
>scale up (down?) to VHF from HF and maintain efficiency? Toroidal balun?
>Ferrite choke? Coiled coax? If ferrites or iron dust cores are involved
>then what mix?
>Any ideas?
>Dick G4BBH
>

I have a 6-meter wire dipole fed with RG8X that was getting about 79
watts forward, 20 watts reverse. A coil of coax, four turns about 5
inches across just below the feedpoint, gave me 100 watts forward. How
this would work on 2 meters, I don't know, but it would be easy to
try.

bob
k5qwg

1347. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 20:36:04 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <51eacc88-70d9-4e6f-ab31-df270d8ff090@z6g2000pre.googlegroups.com>
Source record: 17271

> http://www.palomar-engineers.com/

Thanks, they even have an RFI kit for reasonable.

1348. Re: drunk n8wwm whines on the phone

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 22:38:06 UTC
From: KD8IMG is a 2 time convicted stalker of women <mopezakween@yahoo.com>
Message-ID: <95d8d4c6-2134-4c6e-b4c8-2b0ae6ab2e1c@o8g2000pre.googlegroups.com>
Source record: 17272
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 26, 11:09 am, mopezakw...@yahoo.com wrote:
> On Feb 25, 3:14 pm, Borked Pseudo Mailed <nob...@pseudo.borked.net>
> wrote:
>
>
>
> Heh, cunt-boi bobbie still won't try to cut his losses. You guys have
> fun giving each other head, cuz the fun really begins when we say it
> does, not y'all.

http://groups.google.com/groups/profile?hl=en&enc_user=jtoE7BUAAAABCq2rXEgBtMRYLIYamPVcM2QSjOpuh1pnvFAOUlylOg

1349. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 23:08:43 UTC
From: kb9rqz@yahoooo.com
Message-ID: <m78eq4ptjmsi9vlgbmsca2bnehfohamnl0@4ax.com>
Source record: 17273
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1350. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 23:16:38 UTC
From: kb9rqz@yahoooo.com
Message-ID: <7m8eq41gh76lpaan4vmk8nh6jm3eqmumv0@4ax.com>
Source record: 17274
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Thu, 26 Feb 2009 14:38:06 -0800 (PST), KD8IMG is a 2 time convicted
stalker of women <mopezakween@yahoo.com> wrote:

>On
gte a life

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1351. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 23:31:22 UTC
From: Tio Pedro <radioconnection@cox.net>
Message-ID: <rDFpl.2157$Tp5.1918@newsfe13.iad>
Source record: 17275
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Bill M" <radioexray@geeemail.com> wrote in message
news:go4ste01r2l@news1.newsguy.com...
> >> No doubt, so I don't think a wooden antenna is the final solution.
> Best check out how the scheme might work with scrap wood and coathangers
> and if that works then you could upgrade to finer materials for a more
> permanent solution that works in the rain.
>
> On the other hand it may work well for you in spite of the loss in gain.
>
> -Bill

Wood is fine, it has been used for UHF colinears for decades....
The trick is to have the elements supported (in contact with
wood) at the low voltage,
high current points. CC made a colinear back in the 60s
that used good insulators, but had them on the high voltage
points, which affected the antenna's performance.

Pete

1352. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 23:44:33 UTC
From: jgboyles@aol.com
Message-ID: <af72d93c-d052-47fa-903f-f168c6a0496c@w34g2000yqm.googlegroups.com>
Source record: 17276

On Feb 26, 2:36 pm, "R.Scott" <w7...@yahoo.com> wrote:
> >http://www.palomar-engineers.com/
>
> Thanks, they even have an RFI kit for reasonable.

Yep, Palomar, and the Wireman are good sources. They get the snap on cores and re-package them, and this costs a little extra. If you get them from a parts house such as Mouser or Newark, you will save a little. Shipping costs will be a little less as well. Looking at my latest Mouser catalog they have 3 pages of EMI cores.

Gary N4AST

1353. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-26 23:58:29 UTC
From: dave <dave@dave.dave>
Message-ID: <49a72ca5$0$31141$bd467cd0@news.dslextreme.com>
Source record: 17277

jgboyles@aol.com wrote:
> On Feb 26, 2:36 pm, "R.Scott" <w7...@yahoo.com> wrote:
>>> http://www.palomar-engineers.com/
>> Thanks, they even have an RFI kit for reasonable.
>
> Yep, Palomar, and the Wireman are good sources. They get the snap on
> cores and re-package them, and this costs a little extra. If you get
> them from a parts house such as Mouser or Newark, you will save a
> little. Shipping costs will be a little less as well. Looking at my
> latest Mouser catalog they have 3 pages of EMI cores.
>
> Gary N4AST

I like to do business with fellow radio types, even if it costs a few pennies more.

1354. Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 06:06:40 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <QpLpl.36525$g63.20199@newsfe24.iad>
Source record: 17278
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"dave" <dave@dave.dave> wrote in message
news:3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com...

which was OT in thread "Hack a DTV antenna for dual directions?"

> > "Highland Ham" <rfburns@allbands.net> wrote in message
> > news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...
> >
> >
> >> If I had a neighbour close by I would be happy to share my connection.
> >>
> >> Frank GM0CSZ / KN6WH
> >
> > Nice idea in theory, bad idea in practice, since you can't monitor his
PC.
> > If something illegal goes on from his computer, your IP address will be
> > logged as the source.
> >
> So?

Criminal penalties apply to computer crimes that could be committed via such a shared connection. Notable are the downloading of child pornography (a five-year federal felony in the US) and the misuse of a "zombie" computer for conducting a distributed denial-of-service attack or for sending spam.

In these and other computer crimes, the shared connection is via the subscriber's IP, no matter where the misused computer is located -- in the house, in the barn, in the street, next door, etc. The authorities want to talk to YOU!

Even if the person with whom you share your connection is a model citizen, you still face a risk of misuse out of his sight.

I hope I've made my viewpoint clear.

1355. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 07:10:04 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
Source record: 17279
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> I hope I've made my viewpoint clear.

Can you please take this to another thread of its own?

1356. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 08:29:29 UTC
From: Rob <nomail@example.com>
Message-ID: <slrngqf939.1rqr.nomail@xs7.xs4all.nl>
Source record: 17280
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Esther & Fester Bestertester <not@me.really> wrote:
>> I hope I've made my viewpoint clear.
>
> Can you please take this to another thread of its own?

Again??? What do you want?
It has been taken to another thread and still you repeat your comment.

1357. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 08:47:37 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5CCE8A9006B85F9B01AD9AF@news.sf.sbcglobal.net>
Source record: 17281
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> Again??? What do you want?

Relax...

There have been 4 OT posts. Each poster apparently needs a little help...

> It has been taken to another thread and still you repeat your comment.

Can you please take this to another thread of its own?

(Sorry, I couldn't resist.)

1358. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 08:49:41 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
Source record: 17282
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Esther & Fester Bestertester <not@me.really> wrote:
>>> I hope I've made my viewpoint clear.
>>
>> Can you please take this to another thread of its own?
>
>Again??? What do you want?
>It has been taken to another thread and still you repeat your comment.

No it hasn't. The original thread, 'Hack a DTV antenna for dual
directions?' has been hijacked, and changed to 'Sharing Internet
Connection'.
--
Ian

1359. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 08:51:24 UTC
From: Rob <nomail@example.com>
Message-ID: <slrngqfacb.1rqr.nomail@xs7.xs4all.nl>
Source record: 17283
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Esther & Fester Bestertester <not@me.really> wrote:
>> Again??? What do you want?
>
> Relax...
>
> There have been 4 OT posts. Each poster apparently needs a little help...

You have been replying "take it to another thread" on a post that already
has changed the subject.
When you don't consider that another thread, pity for you.

1360. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 08:53:56 UTC
From: Rob <nomail@example.com>
Message-ID: <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>
Source record: 17284
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
> <nomail@example.com> writes
>>Esther & Fester Bestertester <not@me.really> wrote:
>>>> I hope I've made my viewpoint clear.
>>>
>>> Can you please take this to another thread of its own?
>>
>>Again??? What do you want?
>>It has been taken to another thread and still you repeat your comment.
>
> No it hasn't. The original thread, 'Hack a DTV antenna for dual
> directions?' has been hijacked, and changed to 'Sharing Internet
> Connection'.

So now it is a new thread "Sharing Internet Connection". That is
what was requested. No need to put more comments about changing thread
into there.

1361. Hijacking Newsgroup Threads

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 09:05:47 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
Source record: 17285
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

```
In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>> <nomail@example.com> writes
>>>Esther & Fester Bestertester <not@me.really> wrote:
>>>>> I hope I've made my viewpoint clear.
>>>>
>>>> Can you please take this to another thread of its own?
>>>
>>>Again??? What do you want?
>>>It has been taken to another thread and still you repeat your comment.
>>
>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>> directions?' has been hijacked, and changed to 'Sharing Internet
>> Connection'.
>
>So now it is a new thread "Sharing Internet Connection". That is
>what was requested. No need to put more comments about changing thread
>into there.

Don't you absolutely hate people who hijack threads by changing the
subject?
--
Ian
```

1362. Re: Hijacking Newsgroup Threads

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 09:48:19 UTC
From: Rob <nomail@example.com>
Message-ID: <slrngqfdn3.1thn.nomail@xs7.xs4all.nl>
Source record: 17286
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

```
Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob
> <nomail@example.com> writes
>>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>>> <nomail@example.com> writes
>>>>Esther & Fester Bestertester <not@me.really> wrote:
>>>>> I hope I've made my viewpoint clear.
>>>>
>>>>> Can you please take this to another thread of its own?
>>>>
>>>>Again??? What do you want?
>>>>It has been taken to another thread and still you repeat your comment.
>>>
>>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>>> directions?' has been hijacked, and changed to 'Sharing Internet
>>> Connection'.
>>
>>So now it is a new thread "Sharing Internet Connection". That is
>>what was requested. No need to put more comments about changing thread
>>into there.
>
> Don't you absolutely hate people who hijack threads by changing the
> subject?

Get a newsreader that threads by subject, and be done with it.
```

1363. Newsreaders that thread by subject

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 10:09:02 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
Source record: 17287
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

```
In message <slrngqfdn3.1thn.nomail@xs7.xs4all.nl>, Rob
<nomail@example.com> writes
>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>> In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob
>> <nomail@example.com> writes
>>>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>>>> <nomail@example.com> writes
>>>>>Esther & Fester Bestertester <not@me.really> wrote:
>>>>>>> I hope I've made my viewpoint clear.
>>>>>>
>>>>>> Can you please take this to another thread of its own?
>>>>>
>>>>>Again??? What do you want?
>>>>>It has been taken to another thread and still you repeat your comment.
>>>>
>>>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>>>> directions?' has been hijacked, and changed to 'Sharing Internet
>>>> Connection'.
>>>
>>>So now it is a new thread "Sharing Internet Connection". That is
>>>what was requested. No need to put more comments about changing thread
>>>into there.
>>
>> Don't you absolutely hate people who hijack threads by changing the
>> subject?
>
>Get a newsreader that threads by subject, and be done with it.

I thought that mine did!

When the tree is collapsed, the subject is 'Hack a DTV antenna for dual
directions?' It's only when you expand it, and look 66 postings down the
tree, that you find that some idiot has changed the subject to
'Newsreaders that thread by subject'

Are there any news readers which allow you to rearrange news posts,
which have already been received, into a separate, new thread, and then
have further incoming posts automatically routed there?
--
Ian
```

1364. Re: Newsreaders that thread by subject

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 10:27:59 UTC
From: Rob <nomail@example.com>
Message-ID: <slrngqfg1f.1ulv.nomail@xs7.xs4all.nl>
Source record: 17288
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> Are there any news readers which allow you to rearrange news posts,
> which have already been received, into a separate, new thread, and then
> have further incoming posts automatically routed there?

My newsreader, slrn, does just that. It is starting a new thread at
toplevel everytime you change the subject.

1365. Re: Newsreaders that thread by subject

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 10:47:22 UTC
From: Ian Wade <g3nrw@yahoo.co.uk>
Message-ID: <vh0EqlN6S8pJFwQn@ntlworld.com>
Source record: 17289
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

From: Rob <nomail@example.com>
Date: Fri, 27 Feb 2009 Time: 10:27:59

>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>> Are there any news readers which allow you to rearrange news posts,
>> which have already been received, into a separate, new thread, and then
>> have further incoming posts automatically routed there?
>
>My newsreader, slrn, does just that. It is starting a new thread at
>toplevel everytime you change the subject.

Your newsreader is broken -- it doesn't understand threads. Here are all
the contributors to the "Hack a DTV antenna for dual directions?"
thread:

~~~~~~
References: <0001HW.C5C7191C011A1E44B01AD9AF@news.sf.sbcglobal.net>
<ebd65c07-ff25-4c6f-a49a-2b4d6eeab366@e24g2000vbe.googlegroups.com>
<0001HW.C5C8697A0168F3DAB01AD9AF@news.sf.sbcglobal.net>
<1a221a01-4140-4008-bfc1-9783de97908d@f24g2000vbf.googlegroups.com>
<0001HW.C5C9B7B001B74859B04379AF@news.sf.sbcglobal.net>
<1uz374a3sHpJFwj5@g3ohx.demon.co.uk>
<d36b413a-da35-430c-b8c2-a34816a62fce@v19g2000yqn.googlegroups.com>
<i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net>
<Oyopl.282$Rg3.263@newsfe17.iad>
<3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com>
<QpLpl.36525$g63.20199@newsfe24.iad>
<0001HW.C5CCD1CC00662A16B01AD9AF@news.sf.sbcglobal.net>
<slrngqf939.1rqr.nomail@xs7.xs4all.nl>
<z0XW9BGlk6pJFwzc@g3ohx.demon.co.uk>
<slrngqfah4.1rqr.nomail@xs7.xs4all.nl>
<6UEUF5Hrz6pJFwQ7@g3ohx.demon.co.uk>
<slrngqfdn3.1thn.nomail@xs7.xs4all.nl>
<aHBsRMM+u7pJFwli@g3ohx.demon.co.uk>
~~~~~~

They are all in the *same* thread, even though a couple people changed
the Subject on the way.

In the world of Usenet groups, changing the Subject line does *not*
start a new thread.

--
73
Ian, G3NRW

1366. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 11:12:29 UTC
From: Highland Ham <rfburns@allbands.net>
Message-ID: <XMydnYUINNcDVzrUnZ2dnUVZ8omWnZ2d@pipex.net>
Source record: 17290
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Sal M. Onella wrote:
> "dave" <dave@dave.dave> wrote in message
> news:3oqdnSWyisq7DTvUnZ2dnUVZ_qvinZ2d@earthlink.com...
>
> which was OT in thread "Hack a DTV antenna for dual directions?"
>
>>> "Highland Ham" <rfburns@allbands.net> wrote in message
>>> news:i5idnZ4jCP_gtDjUnZ2dnUVZ8u2dnZ2d@pipex.net...
>>>
>>>
>>>> If I had a neighbour close by I would be happy to share my connection.
>>>>
>>>> Frank GM0CSZ / KN6WH
>>> Nice idea in theory, bad idea in practice, since you can't monitor his
> PC.
>>> If something illegal goes on from his computer, your IP address will be
>>> logged as the source.
>>>
>> So?
>
> Criminal penalties apply to computer crimes that could be committed via such
> a shared connection. Notable are the downloading of child pornography (a
> five-year federal felony in the US) and the misuse of a "zombie" computer
> for conducting a distributed denial-of-service attack or for sending spam.
>
> In these and other computer crimes, the shared connection is via the
> subscriber's IP, no matter where the misused computer is located -- in the
> house, in the barn, in the street, next door, etc. The authorities want to
> talk to YOU!
>
> Even if the person with whom you share your connection is a model citizen,
> you still face a risk of misuse out of his sight.
>
> I hope I've made my viewpoint clear.
==========
Indeed you have. In the end it all boils down to : Trust thy neigbour.
Also ,there is no life without risk.

Frank GM0CSZ / KN6WH

1367. Re: Newsreaders that thread by subject

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 11:18:00 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <9m01JVWov8pJFwyV@g3ohx.demon.co.uk>
Source record: 17291
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <vh0EqlN6S8pJFwQn@ntlworld.com>, Ian Wade <g3nrw@yahoo.co.uk>
writes
>>>
>>
>
>In the world of Usenet groups, changing the Subject line does *not*
>start a new thread.
>
But maybe it depends on the news reader? I suppose it would indeed be a
neat feature if it did this!
--
Ian

1368. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 11:34:53 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <f99b1cda-168f-4654-a1ac-afaa10afc928@j39g2000yqn.googlegroups.com>
Source record: 17292
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Feb 26, 6:31 pm, "Tio Pedro" <radioconnect...@cox.net> wrote:
> "Bill M" <radioex...@geeemail.com> wrote in message
>
> news:go4ste01r2l@news1.newsguy.com...
>
> > >> No doubt, so I don't think a wooden antenna is the final solution.
> > > Best check out how the scheme might work with scrap wood and coathangers
> > > and if that works then you could upgrade to finer materials for a more
> > > permanent solution that works in the rain.
>
> > > On the other hand it may work well for you in spite of the loss in gain.
>
> > > -Bill
>
> Wood is fine, it has been used for UHF colinears for decades....
> The trick is to have the elements supported (in contact with
> wood) at the low voltage,
> high current points. CC made a colinear back in the 60s
> that used good insulators, but had them on the high voltage
> points, which affected the antenna's performance.
>
> Pete

True enough if the design work has been do to ensure that the high
impedance points arent in contact with the wood.
In the concerned case this may not be and probably isnt true for all
frequencies concerned..

Jimmie

1369. Re: Newsreaders that thread by subject

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 11:47:48 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <rfkfq4l8vghgdj14urf779pd8ul79rqgl2@4ax.com>
Source record: 17296

On Fri, 27 Feb 2009 10:09:02 +0000, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>In message <slrngqfdn3.1thn.nomail@xs7.xs4all.nl>, Rob
><nomail@example.com> writes
>>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>> In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob
>>> <nomail@example.com> writes
>>>>Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>>>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>>>>> <nomail@example.com> writes
>>>>>>Esther & Fester Bestertester <not@me.really> wrote:
>>>>>>> I hope I've made my viewpoint clear.
>>>>>>
>>>>>>> Can you please take this to another thread of its own?
>>>>>>
>>>>>>Again??? What do you want?
>>>>>>It has been taken to another thread and still you repeat your comment.
>>>>>
>>>>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>>>>> directions?' has been hijacked, and changed to 'Sharing Internet
>>>>> Connection'.
>>>>
>>>>So now it is a new thread "Sharing Internet Connection". That is
>>>>what was requested. No need to put more comments about changing thread
>>>>into there.
>>>
>>> Don't you absolutely hate people who hijack threads by changing the
>>> subject?
>>
>>Get a newsreader that threads by subject, and be done with it.
>
>I thought that mine did!
>
>When the tree is collapsed, the subject is 'Hack a DTV antenna for dual
>directions?' It's only when you expand it, and look 66 postings down the
>tree, that you find that some idiot has changed the subject to
>'Newsreaders that thread by subject'
>
>Are there any news readers which allow you to rearrange news posts,
>which have already been received, into a separate, new thread, and then
>have further incoming posts automatically routed there?

I use Forte Agent. It starts a new thread whenever a post isn't a
reply to an existing thread, but has a new header.

Also, if I right-click on any received header, Agent gives options
for moving, copying, deleting, marking "read" or whatever.

Bob
k5qwg

1370. Re: Newsreaders that thread by subject

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 13:42:37 UTC
From: Rob <nomail@example.com>
Message-ID: <slrngqfred.24a1.nomail@xs7.xs4all.nl>
Source record: 17293
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Ian Wade <g3nrw@yahoo.co.uk> wrote:
> They are all in the *same* thread, even though a couple people changed
> the Subject on the way.
>
> In the world of Usenet groups, changing the Subject line does *not*
> start a new thread.

Then stop the discussion about starting a new thread, as that just isn't
going to happen.

1371. Re: balun for portable VHF dipole 2M to 6M

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-27 19:45:10 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BC044B171BB5nonenowhere@61.9.191.5>
Source record: 17294

"Richard Ferryman" <richardferryman@btinternet.com> wrote in
news:DYydncl8a7wnhjjUnZ2dnUVZ8j-WnZ2d@bt.com:

> I have constructed a simple telescopic dipole for 2M to 6M to use with
> my FT-817ND. This works fairly well but it is prone to RF on the
> feeder and some noise pickup. This is almost certainly the result of
> feeding a balanced antenna with unbalanced coax. As I need a wideband
> balun I can't use traditional VHF tuned baluns. Question is which
> type of balun can I scale up (down?) to VHF from HF and maintain
> efficiency? Toroidal balun? Ferrite choke? Coiled coax? If ferrites
> or iron dust cores are involved then what mix?

Here is a design: http://www.vk1od.net/balun/G1-1-FT140-61/index.htm .

There are many alternatives.

Owen

> Any ideas?
> Dick G4BBH
>
>

1372. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 00:03:55 UTC
From: jgboyles@aol.com
Message-ID: <81343817-b8ae-47c2-900f-9fd9449b962c@j35g2000yqh.googlegroups.com>
Source record: 17295

On Feb 26, 5:58 pm, dave <d...@dave.dave> wrote:
> jgboy...@aol.com wrote:
> > On Feb 26, 2:36 pm, "R.Scott" <w7...@yahoo.com> wrote:
> >>>http://www.palomar-engineers.com/
> >> Thanks, they even have an RFI kit for reasonable.
>
> > Yep, Palomar, and the Wireman are good sources. They get the snap on
> > cores and re-package them, and this costs a little extra. If you get
> > them from a parts house such as Mouser or Newark, you will save a
> > little. Shipping costs will be a little less as well. Looking at my
> > latest Mouser catalog they have 3 pages of EMI cores.
>
> > Gary N4AST
>
> I like to do business with fellow radio types, even if it costs a few
> pennies more.

So do I, but Scotty indicated he wanted REASONABLE (his words). I have just bought a number of them for a non ham application, and depending on how many you need, the savings can be significant.

Gary N4AST

1373. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 04:41:44 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <dg3ql.51296$uG1.45551@newsfe16.iad>
Source record: 17297
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Highland Ham" <rfburns@allbands.net> wrote in message
news:XMydnYUINNcDVzrUnZ2dnUVZ8omWnZ2d@pipex.net...

> In the end it all boils down to : Trust thy neigbour.
> Also ,there is no life without risk.
>
> Frank GM0CSZ / KN6WH

Glory be to God! I failed absolutely!

No, no NO! What I said was: Do NOT trust your neighbor with your Internet connection. He is not as concerned with keeping you out of prison as you would want him to be if you are a freedom-loving soul. His misdeeds (or the misdeeds of people who have access to his computer, connected wirelessly to your 802.11 Internet connection) will be blamed on you. He does the deed -- you get the beating.

If there is no life without risk, go down to the packing plant and stick your dick in the pickle slicer. Maybe nothing will happen.

;-)
"Sal"
(KD6VKW, a Lowland Ham -- 458 ft AMSL and hoping for not very much sea level rise)

1374. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 05:04:16 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <kB3ql.19874$Rg3.4451@newsfe17.iad>
Source record: 17298
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Rob" <nomail@example.com> wrote in message
news:slrngqfah4.1rqr.nomail@xs7.xs4all.nl...
> Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
> > In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
> > <nomail@example.com> writes
> >>Esther & Fester Bestertester <not@me.really> wrote:
> >>>> I hope I've made my viewpoint clear.
> >>>
> >>> Can you please take this to another thread of its own?
> >>
> >>Again??? What do you want?
> >>It has been taken to another thread and still you repeat your comment.
> >
> > No it hasn't. The original thread, 'Hack a DTV antenna for dual
> > directions?' has been hijacked, and changed to 'Sharing Internet
> > Connection'.
>
> So now it is a new thread "Sharing Internet Connection". That is
> what was requested. No need to put more comments about changing thread
> into there.

1375. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 05:06:10 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <7D3ql.19880$Rg3.14183@newsfe17.iad>
Source record: 17299

<jgboyles@aol.com> wrote in message
news:81343817-b8ae-47c2-900f-9fd9449b962c@j35g2000yqh.googlegroups.com...

>
> I like to do business with fellow radio types, even if it costs a few
> pennies more.

So do I, but Scotty indicated he wanted REASONABLE (his words). I
have just bought a number of them for a non ham application, and
depending on how many you need, the savings can be significant.

The absolute cheapest place to get ferrites has been the swap meets. In
Southern California, we have two that I know: Santee in San Diego and TRW
in Los Angeles. Tons of stuff -- old and new.

The problem is that the vendors often have donuts that are advertised as EMI
suppression ferrites, but they can't identify the mix. The mix determines
the frequency range, so if you try a Mix 43 donut at VHF, you may not see
the desired improvement.

I have a kit of ferrites that I bought for dirt cheap. Why so cheap?
Unlabeled, that's why. I take a shot with one donut and it does nothing, I
try another. For four bucks, I can tolerate some of this annoyance.

I just did a fix with one donut for RF getting into my computer keyboard on
PSK31. A few turns of the keyboard cord through a donut and the problem
went away. Luck and science married.

Could I set up a test jig to figure out the mixes and frequencies? Yes,
maybe. Give me some ideas for the test circuit. I have a 1GHz spec-an &
tracking generator.

"Sal"

1376. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 05:19:28 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <o35ql.33570$EO2.4665@newsfe04.iad>
Source record: 17300
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Rob" <nomail@example.com> wrote in message
news:slrngqfacb.1rqr.nomail@xs7.xs4all.nl...
> Esther & Fester Bestertester <not@me.really> wrote:
> >> Again??? What do you want?
> >
> > Relax...
> >
> > There have been 4 OT posts. Each poster apparently needs a little
help...
>
> You have been replying "take it to another thread" on a post that already
> has changed the subject.
> When you don't consider that another thread, pity for you.

Seriously, do the headers retain a record of a past thread when the subject
line is changed? I ask because I do not recall whether I did that or
whether I went to the <File> menu and initiated a <New News Message>.

When I saw the complaint about being off-topic, I really, truly, sincerely
wanted to comply with general NG etiquette (and I thought I was doing so).

I already Googled for NG etiquette and got a lot of stuff, nothing
conclusive on this subject. URLs, please. If I do wrong, I need to undo
it.

"Sal"

1377. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 08:31:38 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <LD6ql.29216$Hy7.14031@newsfe25.iad>
Source record: 17201
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
news:o35ql.33570$EO2.4665@newsfe04.iad...

>
> Seriously, do the headers retain a record of a past thread when the
subject
> line is changed? I ask because I do not recall whether I did that or
> whether I went to the <File> menu and initiated a <New News Message>.

Answering my own question, for some newsreaders, a change of the subject
line DOES NOT create a new thread.

Therefore, to avoid taking the "Hacking a DTV Antenna ..." thread off-topic,
I should have posted a new message. We're all still learning.

1378. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 12:14:20 UTC
From: Scott <acepilotREMOVE@bloomer.net>
Message-ID: <5bqdnYFR3-EAtzTUnZ2dnUVZ_u6dnZ2d@bright.net>
Source record: 17202
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

JIMMIE wrote:

>>
>>That's what spar varnish is for. Metal booms with the uninsulated
>>elements going through are probably more "shorted" than from wet wood!
>>When aluminum is out in the rain, it's just as wet as wood would be.
>>The water may detune it slightly. Wood can be a great choice for boom
>>material (with proper varnishing)...it would probably outlast an
>>aluminum one in a salt air environment....
>>
>>Scott
>>N0EDV- Hide quoted text -
>>
>>- Show quoted text -
>
>
> In this case the wood is being used as the feedpoint insulator.
>
> Jimmie

OK, throw on another coat of varnish if it makes you feel better...I
usually use 3 heavy, slopped on coats...I don't care about runs or beauty ;)

Scott

1379. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 14:38:54 UTC
From: dave <dave@dave.dave>
Message-ID: <YKKdnf_4QIbg0TTUnZ2dnUVZ_ryWnZ2d@earthlink.com>
Source record: 17203

Sal M. Onella wrote:

> I just did a fix with one donut for RF getting into my computer keyboard on
> PSK31.

How much power do you use for psk31?

1380. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 14:40:29 UTC
From: dave <dave@dave.dave>
Message-ID: <YKKdnf74QIZG0TTUnZ2dnUVZ_rwLAAAA@earthlink.com>
Source record: 17204
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Sal M. Onella wrote:
> "Rob" <nomail@example.com> wrote in message
> news:slrngqfacb.1rqr.nomail@xs7.xs4all.nl...
>> Esther & Fester Bestertester <not@me.really> wrote:
>>>> Again??? What do you want?
>>> Relax...
>>>
>>> There have been 4 OT posts. Each poster apparently needs a little
> help...
>> You have been replying "take it to another thread" on a post that already
>> has changed the subject.
>> When you don't consider that another thread, pity for you.
>
> Seriously, do the headers retain a record of a past thread when the subject
> line is changed? I ask because I do not recall whether I did that or
> whether I went to the <File> menu and initiated a <New News Message>.
>
> When I saw the complaint about being off-topic, I really, truly, sincerely
> wanted to comply with general NG etiquette (and I thought I was doing so).
>
> I already Googled for NG etiquette and got a lot of stuff, nothing
> conclusive on this subject. URLs, please. If I do wrong, I need to undo
> it.
>
> "Sal"
>
>
This thread was earlier called: Hack a DTV antenna for dual direction

1381. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 16:11:24 UTC
From: dave <dave@dave.dave>
Message-ID: <mqadnS8KQIu3_zTUnZ2dnUVZ_gSWnZ2d@earthlink.com>
Source record: 17205
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Sal M. Onella wrote:
> "Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
> news:o35ql.33570$EO2.4665@newsfe04.iad...
>
>
>> Seriously, do the headers retain a record of a past thread when the
> subject
>> line is changed? I ask because I do not recall whether I did that or
>> whether I went to the <File> menu and initiated a <New News Message>.
>
> Answering my own question, for some newsreaders, a change of the subject
> line DOES NOT create a new thread.
>
> Therefore, to avoid taking the "Hacking a DTV Antenna ..." thread off-topic,
> I should have posted a new message. We're all still learning.
>
>
I'd use Thunderbird (as opposed to MS Outlook). You can see a history
of a thread with a single click.

1382. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 21:07:32 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <vp6dnaZGN8sLOjTUnZ2dnUVZ_o-WnZ2d@posted.easystreetonline>
Source record: 17206

Sal M. Onella wrote:
> . . .
> Could I set up a test jig to figure out the mixes and frequencies? Yes,
> maybe. Give me some ideas for the test circuit. I have a 1GHz spec-an &
> tracking generator.

To determine if a core is useful, you need some way to measure the impedance. And unless you're using the cores for high power or high Q applications, all you really need to know is the magnitude of the impedance. An "antenna analyzer" is a really simple and portable way to check flea market beads if you have one -- just put a short loop of wire between the terminals and run it through the bead's hole. If you're measuring at low frequency where the impedance might be low, you can use more than one turn and calculate the one-turn (one pass through the hole) impedance as the measured value divided by the square of the number of turns.

If you really need to know the mix, you'll probably need to be able to measure the R and X components of the impedance as well as the core dimensions, then refer to catalogs of various vendors to find a match.

Roy Lewallen, W7EL

1383. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 23:18:02 UTC
From: mat_62@netcommander.com
Message-ID: <0231d4bf-cb9c-41da-bb4c-4ac69a23b443@c11g2000yqj.googlegroups.com>
Source record: 17207

Update....
After careful consideration of all the points raised here and also a lot of thought on the mechanical and structural aspects of things, I have decided to just go with ground mount setup with radials. I had thought of building some type of lightweight vertical radiator and mounting it atop the mast but I am trying to work with stuff I have on hand. I can't afford to invest any money into buying any sort of aluminum or other material to make such a radiator. As it is I will be stripping insulation off of wire to make ground radials as I have no bare copper. I once read somewhere not to use insulated wire for ground radials.
One problem I'm going to have though is with the mast being mounted against the house. This is a manufactiured home and I have a crawl space under the house. In order to try and get the best results I was thinking of actually running some of the radials underneath the house in the crawl space. I f I don't do this I will have radials running out in three directions and will have a whole area of the ground covered up by the footprint of the house that has no radials. Hope that makes sense.
Anyone see any problem with running radials on top of the ground under the house in the crawl space area? Other than having to watch out for them when I go under there of course.

1384. Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-02-28 23:41:22 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <gZjql.2380$UQ6.1547@en-nntp-03.dc1.easynews.com>
Source record: 17208

Tower project

I'm in beginning stages of installing a 50' guyed Glen Martin tower, 13" per side.
http://www.glenmartin.com/catalog/page6.html
Finished digging the 45" cube hole for the concrete base yesterday. Quite a chore with a small hand shovel, but kept thinking about the "Little Engine that could, "I think I can, I think I can... Started out with a larger shovel, but the small 'stricker' type was just right at depth and what I could lift up to the wheel barrow. Soil is a dirt-clay mix. I figure it took about 18 hours, a couple hours at a time over a week, since I'm an old geezer.

Next step is to secure the tower base, which consists of 3 28" 3/4" rods, secured at their top and bottom with metal braces, that will match the tower base. I'm working on how to secure it in place while concrete is poured. Thinking of rebar into the dirt sides and bottom corners, tied securely to the base with wire.

Any better ideas or suggestions?

Re: trees

Any reason I shouldn't use two old healthy 40'+ oak trees as guy supports from about the bottom 4-5' of the trees? I have three supplied ground 'screw in' guy anchors, but these trees are in the right place and I couldn't screw in the ground anchors with so many big tree roots in the vicinity. Maybe use very large and long screw eye-bolts, or possibly drill a hole for a bolt through the 15" dia trunk?

The tower and beam will be well grounded. Does it matter if guy wires are also grounded, or not?

Re: House and 3rd guy

The tower will be about 3-6' from the house and I have a heavy duty house bracket that could go into a window header 2 x 6 about 8' above ground. I know it's not necessary, and I have no idea how secure the header is, but I figure it'd help keep it stable, esp when several guys would be lose while raising the hazar platform which contains the rotor and mast while moving it and my beam up the tower and above the top guy wire brackets. I'll be able to assemble the beam onto the mast while standing on my 1-story house.

The tower itself, being HD aluminum and about 220 lbs, is to be walked up by a few good men via the base's hinge plate.

Would like to hear "words of wisdom" from anyone who's worked on a similar tower project.

TNX

Marv W5MTV

1385. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 00:53:38 UTC
From: "D. Stussy" <spam@bde-arc.ampr.org>
Message-ID: <gocmah$8kp$1@aux.snarked.org>
Source record: 17209

Stupid idea. Trees grow and thus move over time. They're not stable long enough for construction purposes.

1386. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 01:26:54 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <pdojq4lp5t2vhu8f6faoh3l784244n0giq@4ax.com>
Source record: 17210

On Sat, 28 Feb 2009 17:41:22 -0600, MTV <volztexas355@comcast.net>
wrote:

>The tower and beam will be well grounded.

Hi Marv,

Take advantage of an excellent opportunity to create an "Ufer Ground."

In a nutshell, when you put in the rebar, weld each piece to the
others for continuity, and then make provision for a wire (either
securely clamped, or likewise welded) connection to the assembly that
is accessible for further connection outside of the block of concrete.
This wire will be a low Ohmic ground lead.

>possibly drill a hole for a bolt through the 15" dia trunk?

This should be robust, but think carefully about how those guys span
out towards the trees. If they are not dead-on in angle away from the
tower (as a function of their tower connection) you may twist the
tower and weaken it.

>I have no idea how secure the header is

Will that statement go into an insurance claim? Houses are not built
for lateral strength. Not only does the wall lack the stiffness of
your Oak trees, it is far closer to the moment arm (think crowbar).

73's
Richard Clark, KB7QHC

1387. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 01:34:24 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <k4pjq4l1o0rj5pq3lu3cos5c2rtibjun89@4ax.com>
Source record: 17211

On Sat, 28 Feb 2009 15:18:02 -0800 (PST), mat_62@netcommander.com
wrote:

>As it is I will be
>stripping insulation off of wire to make ground radials as I have no
>bare copper. I once read somewhere not to use insulated wire for
>ground radials.

If you read that here in this group, put that writer in your
kill-file.

Save your time and energy and simply plant the insulated wire.

>I f I don't do this I will have radials running
>out in three directions and will have a whole area of the ground
>covered up by the footprint of the house that has no radials.

You do what you can. The difference between doing it and not doing it
will be trivial on the other guy's S-Meter. Putting them under the
home, in the crawl space, is nice if you want to. It really depends
on HOW MANY total you are laying down, and HOW LONG they are before
your "total" coverage footprint matters.

73's
Richard Clark, KB7QHC

1388. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 02:23:10 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <86sjq454qvltalktc9e9ua7c6vv11pgp59@4ax.com>
Source record: 17212

On Sat, 28 Feb 2009 17:41:22 -0600, MTV <volztexas355@comcast.net>
wrote:

>Tower project
>
>
>Re: trees
>
>Any reason I shouldn't use two old healthy 40'+ oak trees as guy
>supports from about the bottom 4-5' of the trees? I have three supplied
>ground 'screw in' guy anchors, but these trees are in the right place
>and I couldn't screw in the ground anchors with so many big tree roots
>in the vicinity. Maybe use very large and long screw eye-bolts, or
>possibly drill a hole for a bolt through the 15" dia trunk?

As the tree trunk grows and expands, it will swallow up the eye bolt!

bob
k5qwg

>Would like to hear "words of wisdom" from anyone who's worked on a
>similar tower project.
>
>TNX
>
>Marv W5MTV
>

1389. OT inquiring about information on satellite modems

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 06:06:13 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <pBpql.337$gm6.83@nwrddc02.gnilink.net>
Source record: 17213

I bought a Comstream CM 701 Modem thru eBay. It has an input card but I cant find information on what frequency the card is designed to accept. The IF input card is marked 5MB Modem.
If there is anyone reading this and is willing to point me to where I can find information on the Comstream horizontal card (plig-in), I'd sure appreciate knowing where I can find it.

Jerry KD6JDJ

1390. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 07:19:19 UTC
From: Howard K0ACF <howardk0acf@knology.net>
Message-ID: <e1a71$49aa36eb$d8feea72$32084@KNOLOGY.NET>
Source record: 17214

Does your Manufactured Home have aluminum siding & roof?...I had a HF6V
vertical mounted just off the side of my manufactured home at the roof level
& used the home for the ground & no radials. It worked great. My home was
24X60. If you go with the ground mounted go ahead & put them under the home
& don't waste time stripping the wire as the radial won't care either way.
You can also use the I-Beams that are under your home, just connect your
wire from your vertical to each of them also.
<mat_62@netcommander.com> wrote in message
news:1256b48f-0935-4535-a583-0043ea1e4d7a@z1g2000yqn.googlegroups.com...
On Feb 28, 6:18 pm, mat...@netcommander.com wrote:
> Update....
> After careful consideration of all the points raised here and also a
> lot of thought on the mechanical and structural aspects of things, I
> have decided to just go with ground mount setup with radials. I had
> thought of building some type of lightweight vertical radiator and
> mounting it atop the mast but I am trying to work with stuff I have on
> hand. I can't afford to invest any money into buying any sort of
> aluminum or other material to make such a radiator. As it is I will be
> stripping insulation off of wire to make ground radials as I have no
> bare copper. I once read somewhere not to use insulated wire for
> ground radials if you wanted them to be part of you lightning ground as
> well.
> One problem I'm going to have though is with the mast being mounted
> against the house. This is a manufactiured home and I have a crawl
> space under the house. In order to try and get the best results I was
> thinking of actually running some of the radials underneath the house
> in the crawl space. I f I don't do this I will have radials running
> out in three directions and will have a whole area of the ground
> covered up by the footprint of the house that has no radials. Hope
> that makes sense.
> Anyone see any problem with running radials on top of the ground
> under the house in the crawl space area? Other than having to watch
> out for them when I go under there of course.

1391. Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 07:42:31 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <I%qql.51852$cI2.35948@newsfe09.iad>
Source record: 17215
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

"dave" <dave@dave.dave> wrote in message
news:YKKdnf74QIZG0TTUnZ2dnUVZ_rwLAAAA@earthlink.com...

< snip >

> This thread was earlier called: Hack a DTV antenna for dual direction.

Yes, and I screwed it up by changing the <Subject>, thinking I was creating
a new thread. However it doesn't always happen that way.

It went off topic, I followed and was called on it. The attempted "fix"
turned out to be my screw-up.

1392. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 07:58:49 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <_erql.26499$Si4.25684@newsfe22.iad>
Source record: 17216

"dave" <dave@dave.dave> wrote in message
news:YKKdnf_4QIbg0TTUnZ2dnUVZ_ryWnZ2d@earthlink.com...
> Sal M. Onella wrote:
>
> > I just did a fix with one donut for RF getting into my computer keyboard
on
> > PSK31.
>
> How much power do you use for psk31?

I generally set it for about 50 watts to get a decent fade margin. With good propagation, I've used as little as 15 watts and had a solid QSO. (I retweak it for each QSO, since the equalization of the audio input isn't flat. 1500 Hz audio might give me 50 watts, but if I click at 800 Hz, I might get 15 W. The rig has an equalizer in it. Ya think maybe I should learn to use it?)

I put a newer computer in service for PSK and I found that at 50 watts I was getting doubles and triples of many of my keystrokes during QSOs. When I dialed the power down to 25 watts, the problem went away. Ferrite time.

Funny, with the old computer (a 486 running Win95) the RF got into the mouse only. With the new XP computer, the RF got into the keyboard only. Go figure.

1393. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 08:01:11 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <chrql.26500$Si4.22556@newsfe22.iad>
Source record: 17217

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:vp6dnaZGN8sLOjTUnZ2dnUVZ_o-WnZ2d@posted.easystreetonline...
> Sal M. Onella wrote:
> > . . .
> > Could I set up a test jig to figure out the mixes and frequencies? Yes,
> > maybe. Give me some ideas for the test circuit. I have a 1GHz spec-an
&
> > tracking generator.
>
> To determine if a core is useful, you need some way to measure the
> impedance. And unless you're using the cores for high power or high Q
> applications, all you really need to know is the magnitude of the
> impedance. An "antenna analyzer" is a really simple and portable way to
> check flea market beads if you have one -- just put a short loop of wire
> between the terminals and run it through the bead's hole. If you're
> measuring at low frequency where the impedance might be low, you can use
> more than one turn and calculate the one-turn (one pass through the
> hole) impedance as the measured value divided by the square of the
> number of turns.
>
> If you really need to know the mix, you'll probably need to be able to
> measure the R and X components of the impedance as well as the core
> dimensions, then refer to catalogs of various vendors to find a match.
>
> Roy Lewallen, W7EL

Thanks. That sounds easy enough. I have the analyzer.

1394. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 17:08:26 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <eizql.83000$2h5.62802@newsfe11.iad>
Source record: 17218

On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:

> Stupid idea. Trees grow and thus move over time. They're not stable
> long enough for construction purposes.

Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
feet from the ground.

73's
Ken Slimmer, WA0SBU

1395. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 20:28:42 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <VSz$00N6$uqJFwMR@g3ohx.demon.co.uk>
Source record: 17219

In message <eizql.83000$2h5.62802@newsfe11.iad>, Ken Slimmer
<ken@wa0sbu.com> writes
>On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>
>> Stupid idea. Trees grow and thus move over time. They're not stable
>> long enough for construction purposes.
>
>Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
>feet from the ground.
>
But won't the diameter, where you marked, be a lot greater? Anything
tied to the tree will get buried in the wood. Even if you leave 'room
for expansion', this may still happen. A tight loop, buried in the wood,
will also choke off the sap, and possibly kill the part of the tree
above.
--
Ian

1396. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 20:35:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <VjCql.8452$%54.7919@nlpi070.nbdc.sbc.com>
Source record: 17220

mat_62@netcommander.com wrote:
> I once read somewhere not to use insulated wire for ground radials.

I once read somewhere that the moon is made of green cheese.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1397. Re: OT inquiring about information on satellite modems

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 21:46:30 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <ZMWdnaWOdt2rnzbUnZ2dnUVZ_g-WnZ2d@giganews.com>
Source record: 17221

On Sun, 01 Mar 2009 06:06:13 +0000, Jerry wrote:

> I bought a Comstream CM 701 Modem thru eBay. It has an input card but
> I cant find information on what frequency the card is designed to
> accept. The IF input card is marked 5MB Modem.
> If there is anyone reading this and is willing to point me to where I
> can
> find information on the Comstream horizontal card (plig-in), I'd sure
> appreciate knowing where I can find it.
>
> Jerry KD6JDJ

Look here:

http://www.1megastar.com/cm701man.pdf

--
73's
Ken Slimmer, WA0SBU

1398. Cubical Quad Wind Loading ??

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 22:20:39 UTC
From: n8ppq <n8ppq.3f0cbf7@radiobanter.com>
Message-ID: <n8ppq.3f0cbf7@radiobanter.com>
Source record: 17222

Dear Possibly Informed Person:

I have looked at several online pages that describe calculations involving Yagi antennas. However, when I apply these methods to the cubical quad (my antenna of interest) I get numbers greatly higher than those listed by commercial manufacturers. For example, a Cubex 3-el, 5-band gives me 10 sq ft, just counting the boom and spreader arms with no wire, spiders, or Dacron support line, and I'm using the 2/3 multiplier for round members. They report only 7.4 sq ft. I've read that manufacturers exaggerate, but this seems more than that. What am I missing?

Thanks,

Dan N8PPQ
dan@n8ppq.net

--
n8ppq

1399. Re: OT inquiring about information on satellite modems

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-01 23:48:34 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <m9Fql.487$%u5.224@nwrddc01.gnilink.net>
Source record: 17223

"Ken Slimmer" <ken@wa0sbu.com> wrote in message
news:ZMWdnaWOdt2rnzbUnZ2dnUVZ_g-WnZ2d@giganews.com...
> On Sun, 01 Mar 2009 06:06:13 +0000, Jerry wrote:
>
>> I bought a Comstream CM 701 Modem thru eBay. It has an input card but
>> I cant find information on what frequency the card is designed to
>> accept. The IF input card is marked 5MB Modem.
>> If there is anyone reading this and is willing to point me to where I
>> can
>> find information on the Comstream horizontal card (plig-in), I'd sure
>> appreciate knowing where I can find it.
>>
>> Jerry KD6JDJ
>
> Look here:
>
> http://www.1megastar.com/cm701man.pdf
>
>
>
> --
> 73's
> Ken Slimmer, WA0SBU

Hi Ken

Thanks for the reference. I read it (again). Actually, I scanned it.
The information in that manual is difficult for me to understand. Still, I
gain a little more understanding about this"BPSK" system each time I reread
the documents.
My original goal was to assemble an antenna with the needed amplifiers and
demodulators so I can see NOAA's Earth images on the computer monitor.
When I began this project I thought the demodulator would be easy to 'hook
up'. That was a big mistake. The BPSK demodulation is like a seperate
science.

It appears that I need to find a proper card for this CM 701. I find no
reference to the "5MB Modem card in the CM701 I now have.

Jerry KD6JDJ
>

1400. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 04:39:07 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <gofnti$ng1i$1@tr22n12.aset.psu.edu>
Source record: 17224

Ken Slimmer wrote:
> On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>
>> Stupid idea. Trees grow and thus move over time. They're not stable
>> long enough for construction purposes.
>
> Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
> feet from the ground.
>
> 73's
> Ken Slimmer, WA0SBU

Bad idea, trees move in the wind even big ones close to the ground. That puts a lot of extra strain on the tower. If the tree blows over so does your tower and trees blow over more often than towers. Also it's bad for the tree and can kill it then it's an even worse guy anchor. I've seen it done and by people who should have known better and it came to a bad end. My ham club salvaged some nice hard line off the wreckage though.

John Passaneau W3JXP

1401. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 04:55:47 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <oFJql.35808$EO2.34726@newsfe04.iad>
Source record: 17225

"Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
news:VSz$00N6$uqJFwMR@g3ohx.demon.co.uk...

< snip >

> >Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
> >feet from the ground.
> >
> But won't the diameter, where you marked, be a lot greater? Anything
> tied to the tree will get buried in the wood. Even if you leave 'room
> for expansion', this may still happen. A tight loop, buried in the wood,
> will also choke off the sap, and possibly kill the part of the tree
> above.

I think maybe you could drill a hole through the tree with a wood borer.
The Irwin Speedbor toolset comes to mind. They can be fitted with
extensions for added length. I have two, 6" & 12". They use setscrews to
avoid the bulk of a chuck. Love 'em.

http://www.irwin.com/irwin/consumer/jhtml/brandProducts.jhtml?brand=Speedbor

After the hole is through, slide in a piece of All-Thread, flange it with
some sheet aluminum (and maybe a couple of rubber bumpers to be a little
kinder to the bark) and add nuts. Attach your guy wire to the protruding
end of the All-Thread.

Trees will tolerate being drilled. I mounted a garden hose rack on a tree
about 20 years ago; tree and hose rack still doing fine as of this
afternoon.

==========

I didn't see this mentioned: Have you investigated the possible use of a
concrete "deadman anchor"?

1402. Re: POLO 5 T-shirt www.king-trade.cn

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 14:32:22 UTC
From: sell nike air max 90 87 2009 shoes <hong.niu3@gmail.com>
Message-ID: <8c6cd801-258b-4d96-b6e3-d04ed5fe4b62@v13g2000pro.googlegroups.com>
Source record: 17226
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

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1403. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 14:48:01 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <peGdnfKw9cQ8bDbUnZ2dnUVZ_tjinZ2d@giganews.com>
Source record: 17227

On Sun, 01 Mar 2009 23:39:07 -0500, John Passaneau wrote:

> Ken Slimmer wrote:
>> On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>>
>>> Stupid idea. Trees grow and thus move over time. They're not stable
>>> long enough for construction purposes.
>>
>> Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
>> feet from the ground.
>>
>> 73's
>> Ken Slimmer, WA0SBU
>
> Bad idea, trees move in the wind even big ones close to the ground. That
> puts a lot of extra strain on the tower. If the tree blows over so does
> your tower and trees blow over more often than towers. Also it's bad for
> the tree and can kill it then it's an even worse guy anchor. I've seen
> it done and by people who should have known better and it came to a bad
> end. My ham club salvaged some nice hard line off the wreckage though.
>
>
> John Passaneau W3JXP

Hi John;
I wasn't advocating the use of trees as Guy supports for a tower.
They work great as supports for wire antennas. My Boxelders and Oaks
that are 2-3 feet across hardly move in a strong wind. And, no, putting
Eye bolts in a mature tree will not kill it.

--
73's
Ken Slimmer, WA0SBU

1404. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 14:51:02 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <peGdne2w9cTLbzbUnZ2dnUVZ_tjinZ2d@giganews.com>
Source record: 17228

On Sun, 01 Mar 2009 20:28:42 +0000, Ian Jackson wrote:

> In message <eizql.83000$2h5.62802@newsfe11.iad>, Ken Slimmer
> <ken@wa0sbu.com> writes
>>On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>>
>>> Stupid idea. Trees grow and thus move over time. They're not stable
>>> long enough for construction purposes.
>>
>>Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
>>feet from the ground.
>>
> But won't the diameter, where you marked, be a lot greater? Anything
> tied to the tree will get buried in the wood. Even if you leave 'room
> for expansion', this may still happen. A tight loop, buried in the wood,
> will also choke off the sap, and possibly kill the part of the tree
> above.

Ian;
We have used trees as supports for barbed wire by wrapping it around
the tree. The tree just grew over it, healing itself as it grew around
it.

--
73's
Ken Slimmer, WA0SBU

1405. Cubicle Quad Wind Loading

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 16:27:14 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <goh1d5rb1@news.netins.net>
Source record: 17229

My understanding is the wind load of a normal quad is about 4 square feet in the 10 meter region. If the antenna gets larger for the lower frequency bands 10 square may not be to far off. A good vertical as high as permissable could very effective although a horizontal antenna cuts out a lot of QRM. Maybe a few more guy wires will keep the extra square feet up there as the antennas are usually built to survive 80-100 MPH winds. We have to remember a good antenna is a must and if the conditions are good the antenna makes a mediocre radio sound like a champ....KD0FGX

1406. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 16:46:21 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <9O71z+Hd1ArJFwgc@g3ohx.demon.co.uk>
Source record: 17230

In message <peGdne2w9cTLbzbUnZ2dnUVZ_tjinZ2d@giganews.com>, Ken Slimmer
<ken@wa0sbu.com> writes
>On Sun, 01 Mar 2009 20:28:42 +0000, Ian Jackson wrote:
>
>> In message <eizql.83000$2h5.62802@newsfe11.iad>, Ken Slimmer
>> <ken@wa0sbu.com> writes
>>>On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>>>
>>>> Stupid idea. Trees grow and thus move over time. They're not stable
>>>> long enough for construction purposes.
>>>
>>>Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
>>>feet from the ground.
>>>
>> But won't the diameter, where you marked, be a lot greater? Anything
>> tied to the tree will get buried in the wood. Even if you leave 'room
>> for expansion', this may still happen. A tight loop, buried in the wood,
>> will also choke off the sap, and possibly kill the part of the tree
>> above.
>
>Ian;
> We have used trees as supports for barbed wire by wrapping it around
>the tree. The tree just grew over it, healing itself as it grew around
>it.
>
This indeed can happen. I did say 'possibly'. I have a grape vine
growing up one wall of the house (and, given half a chance, would take
over the other three), and I see it where I have tied it up a bit too
tightly to the support wires. However, I doubt if any plant is as happy,
healthy or strong as it would have been without the strangulation. It's
the sort of thing that needs to be checked every so often, and suitable
adjustments made.
--
Ian

1407. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 18:17:33 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <314398b9-e109-458d-9340-29628e019fd8@d19g2000yqb.googlegroups.com>
Source record: 17231

On Feb 28, 6:41 pm, MTV <volztexas...@comcast.net> wrote:
> Tower project
>
> I'm in beginning stages of installing a 50' guyed Glen Martin tower, 13"
> per side.http://www.glenmartin.com/catalog/page6.html
> Finished digging the 45" cube hole for the concrete base yesterday.
> Quite a chore with a small hand shovel, but kept thinking about the
> "Little Engine that could, "I think I can, I think I can... Started out
> with a larger shovel, but the small 'stricker' type was just right at
> depth and what I could lift up to the wheel barrow. Soil is a dirt-clay
> mix. I figure it took about 18 hours, a couple hours at a time over a
> week, since I'm an old geezer.
>
> Next step is to secure the tower base, which consists of 3 28" 3/4"
> rods, secured at their top and bottom with metal braces, that will match
> the tower base. I'm working on how to secure it in place while concrete
> is poured. Thinking of rebar into the dirt sides and bottom corners,
> tied securely to the base with wire.
>
> Any better ideas or suggestions?
>
> Re: trees
>
> Any reason I shouldn't use two old healthy 40'+ oak trees as guy
> supports from about the bottom 4-5' of the trees? I have three supplied
> ground 'screw in' guy anchors, but these trees are in the right place
> and I couldn't screw in the ground anchors with so many big tree roots
> in the vicinity. Maybe use very large and long screw eye-bolts, or
> possibly drill a hole for a bolt through the 15" dia trunk?
>
> The tower and beam will be well grounded. Does it matter if guy wires
> are also grounded, or not?
>
> Re: House and 3rd guy
>
> The tower will be about 3-6' from the house and I have a heavy duty
> house bracket that could go into a window header 2 x 6 about 8' above
> ground. I know it's not necessary, and I have no idea how secure the
> header is, but I figure it'd help keep it stable, esp when several guys
> would be lose while raising the hazar platform which contains the rotor
> and mast while moving it and my beam up the tower and above the top guy
> wire brackets. I'll be able to assemble the beam onto the mast while
> standing on my 1-story house.
>

> The tower itself, being HD aluminum and about 220 lbs, is to be walked
> up by a few good men via the base's hinge plate.
>
> Would like to hear "words of wisdom" from anyone who's worked on a
> similar tower project.
>
> TNX
>
> Marv W5MTV

All trees are not created equal. I am sure there are some that are massive and well anchored enough to do the job. I have a sycamore tree that would do the job if needed.

JImmie

1408. #Re: Sharing Internet Connection

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 18:54:58 UTC
From: Stray Dog <sdog2008@sdf.lonestar.org>
Message-ID: <Pine.NEB.4.64.0903021853010.26935@sdf.lonestar.org>
Source record: 17232
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Don't feed the trolls, don't be a troll.

Some trolls like to think they have a right to be: netcop, self-appointed censors, judges-juries-executioners, etc.

On Fri, 27 Feb 2009, Esther & Fester Bestertester wrote:

> Date: Fri, 27 Feb 2009 00:47:37 -0800
> From: Esther & Fester Bestertester <not@me.really>
> Newsgroups: rec.radio.amateur.antenna, rec.radio.amateur.homebrew,
> rec.radio.amateur.misc
> Subject: Re: Sharing Internet Connection
>
>> Again??? What do you want?
>
> Relax...
>
> There have been 4 OT posts. Each poster apparently needs a little help...
>
>> It has been taken to another thread and still you repeat your comment.
>
> Can you please take this to another thread of its own?
>
> (Sorry, I couldn't resist.)
>
>

1409. #Re: Hijacking Newsgroup Threads

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 18:58:36 UTC
From: Stray Dog <sdog2008@sdf.lonestar.org>
Message-ID: <Pine.NEB.4.64.0903021856270.26935@sdf.lonestar.org>
Source record: 17233
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Fri, 27 Feb 2009, Ian Jackson wrote:

> Date: Fri, 27 Feb 2009 09:05:47 +0000
> From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
> Newsgroups: rec.radio.amateur.antenna, rec.radio.amateur.homebrew,
> rec.radio.amateur.misc
> Subject: Hijacking Newsgroup Threads
>
> In message <slrngqfah4.1rqr.nomail@xs7.xs4all.nl>, Rob <nomail@example.com>
> writes
>> Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>>> In message <slrngqf939.1rqr.nomail@xs7.xs4all.nl>, Rob
>>> <nomail@example.com> writes
>>>> Esther & Fester Bestertester <not@me.really> wrote:
>>>>>> I hope I've made my viewpoint clear.
>>>>>
>>>>> Can you please take this to another thread of its own?
>>>>
>>>> Again??? What do you want?
>>>> It has been taken to another thread and still you repeat your comment.
>>>
>>> No it hasn't. The original thread, 'Hack a DTV antenna for dual
>>> directions?' has been hijacked, and changed to 'Sharing Internet
>>> Connection'.
>>
>> So now it is a new thread "Sharing Internet Connection". That is
>> what was requested. No need to put more comments about changing thread
>> into there.
>
> Don't you absolutely hate people who hijack threads by changing the subject?
> --
> Ian
>

FYI,

There is a sociological phenomenon called "Godwin's Law"

Here is a copy.....

Subject: How to post about Nazis and get away with it - the Godwin's Law FAQ

Archive-name: usenet/legends/godwin
Posting-Frequency: monthly
Last-Modified: October 7, 2003
Version: 1.15
URL: http://www.killfile.org/faqs/godwin.faq
Maintainer: tskirvin@killfile.org (Tim Skirvin)

Godwin's Law FAQ
-or-
"How to post about Nazis and get away with it"

One of the most famous pieces of Usenet trivia out there is "if you mention Hitler or Nazis in a post, you've automatically ended whatever discussion you were taking part in". Known as Godwin's Law, this rule of Usenet has a long and sordid history on the network - and is absolutely wrong. This FAQ is an attempt to set straight as much of the history and meaning of Godwin's Law as possible, and hopefully encourage users to invoke it a bit more sparingly. Of course, knowing Usenet, it won't do an ounce of good...

[Standard Disclaimers: this document assumes you have some basic knowledge of Usenet; if you don't, go check out news.announce.newusers for a while to gain said knowledge. Misuse of the information contained within this FAQ is not the responsibility of the author (though he's pretty confused exactly how you could misuse this information). Copyright 1999-2002, Tim Skirvin, all rights reserved, <FISH><, fnord, furrfu.]

I. The Basics
1. What is Godwin's Law?

Godwin's Law is a natural law of Usenet named after Mike Godwin (godwin@eff.org) concerning Usenet "discussions". It reads, according to the Jargon File:

As a Usenet discussion grows longer, the probability of a comparison involving Nazis or Hitler approaches one.

2. What does it mean?

It pretty much means exactly what it says - as a Usenet thread goes on, the chances of somebody or something being compared to a Nazi approach one.

3. Yes, but what does it *mean*?

Aah, now *there's* the real question.

In case your head has been buried in the sand for the last sixty years or so, the Nazis were a German political party led by Adolf Hitler that slaughtered upwards of ten million people that didn't meet their standards of "ethnic purity" and set off to conquer Europe and the world in World War II. They are generally considered the most evil group of people to live in modern times, and to compare something or someone to them is usually considered the gravest insult imaginable.

As a Usenet discussion gets longer it tends to get more heated; as more heat enters the discussion, tensions get higher and people start to insult each other over anything they can think of. Godwin's Law merely notes that, eventually, those tensions eventually cause someone to find the worst insults that come to mind - which will almost always include a Nazi comparison.

4. That still doesn't answer my question. What does it *MEAN*?

The Law is generally used on Usenet as an indicator of whether a thread has gone on too long, who's playing fair and who's just slinging mud, and who finally gets to "win" the discussion. It has, over time, become the closest thing to an impartial moderator that Usenet can get.

So, what this means in practical terms:

o If someone brings up Nazis in general conversation when it wasn't necessary or germane without it necessarily being an insult, it's probably about time for the thread to end.
o If someone brings up Nazis in general conversation when it was vaguely related but is basically being used as an insult, the speaker can be considered to be flaming and not debating.
o If someone brings up Nazis in any conversation that has been going on too long for one of the parties, it can be used as a fair excuse to end the thread and declare victory for the other side.

5. So - *WHAT DOES IT MEAN*?

Fine, fine - it means that somebody's eventually going to say something about the Nazis in any thread that lasts very long. When it happens, the thread is going to start either degenerating into a long flamewar over Nazi Germany or about Godwin's Law. Either way, the thread is effectively over, and you can safely killfile the thread and move on.

II. What does it mean?
1. Didn't we already spend the last section talking about this?

Well, yeah, but people don't seem to get the point...

2. What happens if we're actually talking about Nazis?

Then you've already invoked Godwin's Law, and the chances are that your thread isn't going to last all that much longer as a sane discussion. Them's the breaks.

That isn't to say, of course, that you can't talk about Nazis and such on Usenet - this *is* Usenet, after all, where virtually every conversation that goes on is fairly ludicrous in the first place. It's just going to take you a lot more effort to find real information out of there and to avoid getting yourself off on side-threads - which you'll eventually do regardless, but you can try to put it off.

This also applies if a thread mutates into an actual discussion of Nazis, of course.

3. What about arguing with Neo-Nazis?

Arguing with Neo-Nazis is probably the quickest path to getting Nazi invocations, because, well, they're actually accurate. Still, trying to invoke Godwin's Law near a Neo-Nazi isn't really a good idea because it's not terribly original and they'll probably get off on it anyway. Just ignore them and occasionally publish a FAQ detailing what actually happened during the Holocaust and such; arguing probably isn't going to help you.

4. How can I use Godwin's Law to my advantage?

In the proper kind of flamewar, Godwin's Law can be used as a gambit - how can you force your opponent to invoke the Law? Actually teaching these skills is tough, of course, and is best done through experience. Experience with chess and alt.flame are recommended.

5. What should I do if somebody else invokes Godwin's Law?

The obvious response is to call them on it, say "thread's over", and declare victory. This is also one of the stupidest possible responses, because it involves believing far too much in the power of a few rules that don't say exactly what you wish they said anyway. The proper response to an invocation is probably to simply followup with a message saying "Oh. I'm a Nazi? Sure. Bye" and leave, and in most cases even that much of a post is unnecessary.

6. "Hitler!" Ha! The thread is over!

Nope, doesn't work that way. Not only is it wrong to say that a thread is over when Godwin's Law is invoked anyway (Usenet threads virtually always outlive their usefulness), but long ago a corollary to the Law was proposed and accepted by Taki "Quirk" Kogama (quirk@swcp.com):

Quirk's Exception: Intentional invocation of this so-called "Nazi Clause" is ineffectual.

Sorry, folks. Nice try, though.

7. Does Godwin's Law apply in the real world?

Actually, yeah, but usually discussions in Real Life end by somebody wandering off in disgust before it can be invoked.

8. Are there any topics that lead directly to Godwin Invocations?

Well, yeah. Of course. Case's Corollary to the Law states "if the subject is Heinlein or homosexuality, the probability of a Hitler/Nazi comparison being made becomes equal to one" - but that's just an old list. Abortion and gun control debates always lead to Nazi comparisons; talk with a Libertarian for more than a few hours and he'll almost certainly bring up Nazis; book-burning is pretty much considered a sub-topic of Nazism at this point. Hell, talk about anything politically related and you'll eventually get there.

If you're really bored, a fun game to play is Six Degrees of Godwin.
Take a topic - any topic - and see how quickly you can relate it to Nazis
using legitimate topic drift methods. For example: a discussion about
computers will eventually lead to discussions of keyboards and which are
best, followed by a lot of complaining about the Windows key on 104-key
keyboards, leading to complaints about Microsoft, forcing the standard
MS-vs-government flamewar that I'm sure you're all aware of, leading to
attacks on Microsoft's "fascist" tactics by one side or another, which
will force the other side to start talking about the differences between
fascism, capitalism, and, of course, Nazism! The fun never stops!

Appendix A: The Many Forms of Godwin's Law

"You can tell when a USENET discussion is getting old when one of the
participants drags out Hitler and the Nazis."
- Richard Sexton (http://www.vrx.net/richard/) stating what would later
be known as Godwin's Law, Message-ID <21000@gryphon.COM>, 16 Oct 1989

http://groups.google.com/groups?selm=21000%40gryphon.COM&output=gplain

"Godwin's Rule of Nazi Analogies: As a Usenet discussion grows longer, the
probability of a comparison involving Nazis or Hitler approaches one."
- Mike Godwin, first article about the topic in the Google archives,
Message-ID <1991Aug18.215029.19421@eff.org>, 18 Aug 1991

http://groups.google.com/groups?selm=1991Aug18.215029.19421%40eff.org

:Godwin's Law: /prov./ [Usenet] "As a Usenet discussion grows
longer, the probability of a comparison involving Nazis or Hitler
approaches one." There is a tradition in many groups that, once
this occurs, that thread is over, and whoever mentioned the Nazis
has automatically lost whatever argument was in progress. Godwin's
Law thus practically guarantees the existence of an upper bound on
thread length in those groups.
- The Jargon File (http://www.ccil.org/jargon/)

Hitler, Nazis, nazis, and net.cops:
Warning: now that this FAQ has mentioned Hitler and Nazis, UseNet Rule #4
(also known as Godwin's Rule, after Mike Godwin of the EFF, sci.crypt, and
comp.org.eff.talk, a sometime foe of David Sternlight (q.v.) [even though it
was apparently in use, by Richard Sexton {q.v.} among others, before Mike's
1988 (?) net.advent; the "Godwin's" part seems to stem from "Rich Rosen's
Rules of Net.Debate, which I don't have a copy of]) says it will be coming to
an irrelevant and off-topic end soon. Just as there will always be newbies
("It's *always* September, *somewhere* on the net" - response to a 1993 wave
of delphi.com postings on a.f.u), there will always be people who see the net
and are repulsed because there's stuff there they don't want to see - so they
set out to make sure noone else can, either. They invariably fail, because
there are no net.cops to enforce any such rules on UseNet; in the course of
the heated flamewar that usually follows, things escalate until either Hitler
or Nazis (or both) put in an appearance, at which point the thread has
officially lost all relevance. People scream at each other a bit more, then
give up and go home. Bleah. "Keep your brains up top; don't be a net.cop."

This has mutated, in true UseNet fashion, to encompass *any* continuing thread; if you mention Hitler or Nazis out of the blue, the thread is sure to die irrelevantly soon (and, incidentally, you've lost the argument, whatever it was)... and every continuing thread on UseNet *must* contain such a reference sooner or later. Invoking Rule #4 deliberately in hopes of ending a thread, however, is doomed to failure (Quirk's Exception)...

UseNet Rules #n:
No firm info at the present time is available on just what the other UseNet Rules #n are. However, at a guess, they include:
--
Rule #nonumber: There are no hard-and-fast Rules on UseNet, only Guidelines, which are more or less strictly enforced (and differ) from group to group; this is why it's generally wise to read any group for a bit before ever posting to it.
Rule #0: *There* *is* *no* *C*b*l*. There *is*, however, a net-wide conspiracy designed solely to lead Dave Hayes (q.v.) to believe that there is a C*b*l.
Corollary: *There* *are* *no* *pods*.
Rule #9: It's *always* September, *somewhere* on the Net.
Dave Fischer's Extension: 1993 was The Year September Never Ended [so far, there doesn't seem to be much evidence he's wrong...]
Rule #17: Go not to UseNet for counsel, for they will say both `No' and `Yes' and `Try another newsgroup'.
Rule #2 (John Gilmore): "The Net interprets censorship as damage and routes around it."
Rule #108 (from the soc.motss FAQ): "What will happen to me if I read soc.motss?" "In general, nothing. (You may be informed or infuriated, of course; but that's a standard Usenet hazard.)"
Rule #666: Old alt groups never die. They don't fade away nicely, either.
Rule #7-B: There is no topic so thoroughly covered that noone will ever bring it up again.
Rule #90120: Applying your standards to someone else's post *will* result in a flamewar.
Rule #1: Spellling and grammer counts. So do grace, wit, and a sense of humor (the latter two are different), as well as a willingness to meet odd people, but these are lesser considerations.
Rule #x^2: FAQs are asked frequently. Get used to them.
Rule #29: no rational discourse can happen in a thread cross-posted to more than two newsgroups.
rule #6 (Eddie Saxe): don't post to misc.test unless you understand the consequences.
Rule #547 (Arne Adolfsen): When people know they're wrong they resort to ad hominems.
Rule #37 (Faisal Nameer Jawdat): Read the thread from the beginning, or else.
Rule #5 (Reimer's Reason): Nobody ever ignores what they should ignore on Usenet.
Rule $19.99 (Brad `Squid' Shapcott): The Internet *isn't* *free*. It just has an economy that makes no sense to capitalism.
Rule #3 ("Why 3?" "Because we felt like it"): For every opinion there is at

least one equally loud and opposing opinion; sometimes stated as:
Rule #27 (Gary Lewandowski): "In cyberspace, *everyone* can hear you scream."
And for completeness' sake:

Rule #4: (Godwin's Rule) Any off-topic mention of Hitler or Nazis will cause the thread it is mentioned in to an irrelevant and off-topic end very soon; every thread on UseNet has a constantly-increasing probability to contain such a mention.
Quirk's Exception: Intentional invocation of this so-called "Nazi Clause" is ineffectual.
Case's Corollary: If the subject is Heinlein or homosexuality, the probability of a Hitler/Nazi comparison being made becomes equal to one.
- net.legends FAQ (http://www.killfile.org/faqs/legends.html)

Appendix B: Addendums, Commentary, and Miscellaneous

1. Bentsen's Defense

For some, there is another way around Godwin's Law:

"Not this time. I know Mike Godwin. Mike Godwin is a friend of mine. Senator, you're no Mike Godwin."

This, of course, only applies to friends of Mike Godwin. The originator of this rule, Earl Cooley III (shiva@io.com), is one of those people. If you have to ask, you don't apply. I don't apply, so don't feel bad.

Note that this was named after Senator Lloyd Bentsen's "You're no Jack Kennedy" line from the 1988 vice-presidential debates. And the original usage can be found in <3b09d2e6.79411309@news.supernews.com>:

http://groups.google.com/groups?as_umsgid=3b09d2e6.79411309@news.supernews.com

2. Godwin's Commentary

Godwin actually wrote a short article for Wired Magazine on the Law back in 1994:

http://www.wired.com/wired/archive/2.10/godwin.if_pr.html

The article is actually more about the power and danger of memes (thought-viruses) than about Godwin's Law itself, but it's worthwhile reading for anybody who actually got this far into the FAQ.

3. Author's Note on the Holocaust

Over the years, I have received several emails regarding this FAQ regarding the Holocaust itself, either disputing the holocaust or the numbers listed in this FAQ. I'd just like to make it clear that I don't have any particular desire to debate these points; this FAQ is meant to point out and explain a quirk of human nature, not to codify the history of World War II.

4. Additional Corollaries

There have been many additional corollaries and otherwise related
rules created since the net.legends FAQ codified them, and/or missed in
that FAQ. Those that have been brought to the author's attention:

Stead's Law (named for Lew Stead of alt.pagan fame):
Any discussion between more than 2 Pagans will eventually come around
to Christianity.
- Reported by Donal Brewich <donal@brewich.com>
- More information regarding its history would be appreciated

--
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http://www.killfile.org/faqs/godwin.faq

1410. VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 19:23:46 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <c300d15f-3a4e-4099-91f5-9c2188a5e3cc@a39g2000yqc.googlegroups.com>
Source record: 17234

I have head that various types of precipitation can cause static and have seen it to some extent but last night I think I witnessed it nearly wiped out air ground communications at a major airport when a snow storm passed through the area. The static could be heard on over 50 receivers most of which had their own antenna. Is this possible.

Jimmie

1411. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 19:45:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <hapt76-iq1.ln1@mail.specsol.com>
Source record: 17235

JIMMIE <JIMMIEDEE123@yahoo.com> wrote:
> I have head that various types of precipitation can cause static and
> have seen it to some extent but last night I think I witnessed it
> nearly wiped out air ground communications at a major airport when a
> snow storm passed through the area. The static could be heard on over
> 50 receivers most of which had their own antenna. Is this possible.
>
> Jimmie

Yes.

Aviation uses AM, so yes you can hear percipitation static and lightning
noise and when airborne you can hear it from a long way away.

Though generally if the static is really bad you have bigger issues
to be concerned about than radio noise.

--
Jim Pennino

Remove .spam.sux to reply.

1412. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 20:44:43 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <T_ydnT4BH_ym2DHUnZ2dnUVZ_sHinZ2d@giganews.com>
Source record: 17236

On Mon, 02 Mar 2009 16:46:21 +0000, Ian Jackson wrote:

> In message <peGdne2w9cTLbzbUnZ2dnUVZ_tjinZ2d@giganews.com>, Ken Slimmer
> <ken@wa0sbu.com> writes
>>On Sun, 01 Mar 2009 20:28:42 +0000, Ian Jackson wrote:
>>
>>> In message <eizql.83000$2h5.62802@newsfe11.iad>, Ken Slimmer
>>> <ken@wa0sbu.com> writes
>>>>On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>>>>
>>>>> Stupid idea. Trees grow and thus move over time. They're not
>>>>> stable long enough for construction purposes.
>>>>
>>>>Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
>>>>feet from the ground.
>>>>
>>> But won't the diameter, where you marked, be a lot greater? Anything
>>> tied to the tree will get buried in the wood. Even if you leave 'room
>>> for expansion', this may still happen. A tight loop, buried in the
>>> wood, will also choke off the sap, and possibly kill the part of the
>>> tree above.
>>
>>Ian;
>> We have used trees as supports for barbed wire by wrapping it
>> around
>>the tree. The tree just grew over it, healing itself as it grew around
>>it.
>>
> This indeed can happen. I did say 'possibly'. I have a grape vine
> growing up one wall of the house (and, given half a chance, would take
> over the other three), and I see it where I have tied it up a bit too
> tightly to the support wires. However, I doubt if any plant is as happy,
> healthy or strong as it would have been without the strangulation. It's
> the sort of thing that needs to be checked every so often, and suitable
> adjustments made.

You can't believe how many trees I have cut for firewood and had barbed
wire, nails, even steel posts in them.

--
73's
Ken Slimmer, WA0SBU

1413. Re: OT inquiring about information on satellite modems

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 20:47:07 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <T_ydnTkBH_xW2DHUnZ2dnUVZ_sHinZ2d@giganews.com>
Source record: 17237

On Sun, 01 Mar 2009 23:48:34 +0000, Jerry wrote:

> Hi Ken
>
> Thanks for the reference. I read it (again). Actually, I scanned
> it.
> The information in that manual is difficult for me to understand.
> Still, I gain a little more understanding about this"BPSK" system each
> time I reread the documents.
> My original goal was to assemble an antenna with the needed amplifiers
> and
> demodulators so I can see NOAA's Earth images on the computer monitor.
> When I began this project I thought the demodulator would be easy to
> 'hook up'. That was a big mistake. The BPSK demodulation is like a
> seperate science.
>
> It appears that I need to find a proper card for this CM 701. I find
> no
> reference to the "5MB Modem card in the CM701 I now have.
>
> Jerry KD6JDJ
>>

Jerry;
Sounds like a fun project, too bad I don't have one to play with.

1414. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 21:17:54 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <e542b4cf-33a2-4f44-ad3a-f856cfa41be4@l39g2000yqn.googlegroups.com>
Source record: 17238

On Mar 2, 2:45 pm, j...@specsol.spam.sux.com wrote:
> JIMMIE <JIMMIEDEE...@yahoo.com> wrote:
> > I have head that various types of precipitation can cause static and
> > have seen it to some extent but last night I think I witnessed it
> > nearly wiped out air ground communications at a major airport when a
> > snow storm passed through the area. The static could be heard on over
> > 50 receivers most of which had their own antenna. Is this possible.
>
> > Jimmie
>
> Yes.
>
> Aviation uses AM, so yes you can hear percipitation static and lightning
> noise and when airborne you can hear it from a long way away.
>
> Though generally if the static is really bad you have bigger issues
> to be concerned about than radio noise.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

We dont generallty have a problem with P static during rain but the
snow, if that wwas the cause was, breaking the squelch on the
receivers. Normally the squelch is set to break at 2uVs. I adjusted
the squelch on a rx until it just blanked while listening to the noise
then measured the amount of signal from a generator that it would take
to breal squelch. The level was about 40uV and the level was
continuous for the duration of the storm. Does snow normallly cause
more of a static problem than rain? Living in the SOuth snow isnot
something I have a lot of experience with.

Jimmie

1415. Re: #Re: Hijacking Newsgroup Threads

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 21:52:23 UTC
From: dave <dave@dave.dave>
Message-ID: <49ac5518$0$31170$bd467cd0@news.dslextreme.com>
Source record: 17239
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Stray Dog wrote:

>>
>
> FYI,
>
> There is a sociological phenomenon called "Godwin's Law"
>

I don't believe in Godwin.

1416. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 23:51:23 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <6j_ql.8027$jZ1.1849@flpi144.ffdc.sbc.com>
Source record: 17241

```
Ken Slimmer wrote:
> On Mon, 02 Mar 2009 16:46:21 +0000, Ian Jackson wrote:
>
>> In message <peGdne2w9cTLbzbUnZ2dnUVZ_tjinZ2d@giganews.com>, Ken Slimmer
>> <ken@wa0sbu.com> writes
>>> On Sun, 01 Mar 2009 20:28:42 +0000, Ian Jackson wrote:
>>>
>>>> In message <eizql.83000$2h5.62802@newsfe11.iad>, Ken Slimmer
>>>> <ken@wa0sbu.com> writes
>>>>> On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>>>>>
>>>>>> Stupid idea. Trees grow and thus move over time. They're not
>>>>>> stable long enough for construction purposes.
>>>>> Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
>>>>> feet from the ground.
>>>>>
>>>> But won't the diameter, where you marked, be a lot greater? Anything
>>>> tied to the tree will get buried in the wood. Even if you leave 'room
>>>> for expansion', this may still happen. A tight loop, buried in the
>>>> wood, will also choke off the sap, and possibly kill the part of the
>>>> tree above.
>>> Ian;
>>> We have used trees as supports for barbed wire by wrapping it
>>> around
>>> the tree. The tree just grew over it, healing itself as it grew around
>>> it.
>>>
>> This indeed can happen. I did say 'possibly'. I have a grape vine
>> growing up one wall of the house (and, given half a chance, would take
>> over the other three), and I see it where I have tied it up a bit too
>> tightly to the support wires. However, I doubt if any plant is as happy,
>> healthy or strong as it would have been without the strangulation. It's
>> the sort of thing that needs to be checked every so often, and suitable
>> adjustments made.
>
> You can't believe how many trees I have cut for firewood and had barbed
> wire, nails, even steel posts in them.
>
>
>
If you want to see someone run. Offer a sawyer a large tree cut from a
fence row.
```

1417. Re: #Re: Hijacking Newsgroup Threads

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-02 23:52:26 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <r5SAugF6EHrJFwwG@g3ohx.demon.co.uk>
Source record: 17240
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

In message <49ac5518$0$31170$bd467cd0@news.dslextreme.com>, dave
<dave@dave.dave> writes
>Stray Dog wrote:
>
>>>
>> FYI,
>> There is a sociological phenomenon called "Godwin's Law"
>>
>
>I don't believe in Godwin.

To me, the fact that His Law (in one form or another) is true proves
that He exists.

In the UK, in uk.radio.amateur, after about three 'overs', all threads
get hijacked and turn into a slanging match which is invariably about
the UK amateur 'Foundation Licence' (effectively a low-grade novice
licence). This is much more important than Nazis and the like.
--
Ian

1418. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 01:46:21 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <u_%ql.11723$UQ6.5606@en-nntp-03.dc1.easynews.com>
Source record: 17242

Sal M. Onella wrote:
> "Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
> news:VSz$00N6$uqJFwMR@g3ohx.demon.co.uk...
>
> < snip >
>
>>> Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
>>> feet from the ground.
>>>
>> But won't the diameter, where you marked, be a lot greater? Anything
>> tied to the tree will get buried in the wood. Even if you leave 'room
>> for expansion', this may still happen. A tight loop, buried in the wood,
>> will also choke off the sap, and possibly kill the part of the tree
>> above.
>
> I think maybe you could drill a hole through the tree with a wood borer.
> The Irwin Speedbor toolset comes to mind. They can be fitted with
> extensions for added length. I have two, 6" & 12". They use setscrews to
> avoid the bulk of a chuck. Love 'em.
>
> http://www.irwin.com/irwin/consumer/jhtml/brandProducts.jhtml?brand=Speedbor
>
> After the hole is through, slide in a piece of All-Thread, flange it with
> some sheet aluminum (and maybe a couple of rubber bumpers to be a little
> kinder to the bark) and add nuts. Attach your guy wire to the protruding
> end of the All-Thread.
>
> Trees will tolerate being drilled. I mounted a garden hose rack on a tree
> about 20 years ago; tree and hose rack still doing fine as of this
> afternoon.
>
> ================
>
> I didn't see this mentioned: Have you investigated the possible use of a
> concrete "deadman anchor"?
>

What's that? A block of concrete...?

I've measured the growth rings in an almost identical Live Oak we had to
take down after H. Ike. A 1 inch radius growth was about 12-15 years.
Going into the ground just makes another obstacle to mow around. Another
solution may be a steel rail into the ground like a fence post. Will
think about it all some more.

Thanks for the comments!

Marv

1419. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 01:48:03 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <k%%ql.20913$yr3.18164@nlpi068.nbdc.sbc.com>
Source record: 17243

JIMMIE wrote:
> Is this possible.

I've personally experienced P-static during dust
storms and rain storms. Someone reported that he
could count the largest snowflakes hitting his
antenna just by listening to the radio.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1420. RE:VHF Handbook

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 01:50:09 UTC
From: Harry H <harryharms@hotmail.com>
Message-ID: <l10rl.24579$cu.21635@news-server.bigpond.net.au>
Source record: 17244

I am trying to source a readable copy of Orr & Johnsons "VHF Handbook".

I have found a copy, but the "heavy wear" description is just that, some pages are unreadable.

If anyone can help me, either with a reasonable hard copy or a PDF file or a copy on a CD, I would be very grateful.

73
HH

1421. Re: #Re: Hijacking Newsgroup Threads

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 03:44:12 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5D1E78C0196EE13B01AD9AF@news.sf.sbcglobal.net>
Source record: 17245
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Is there a corollary of Godwin Law where the original thread devolves into a discussion of Godwin's Law?

1422. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 03:50:48 UTC
From: kb9rqz@yahoooo.com
Message-ID: <38apq4ps05p2g8bhvmeps7ap9m36kh0huh@4ax.com>
Source record: 17246

On Mon, 2 Mar 2009 11:23:46 -0800 (PST), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I have head that various types of precipitation can cause static and
>have seen it to some extent but last night I think I witnessed it
>nearly wiped out air ground communications at a major airport when a
>snow storm passed through the area. The static could be heard on over
>50 receivers most of which had their own antenna. Is this possible.
>
>Jimmie

all things that happen are possible

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1423. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 04:28:30 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Ol2rl.33858$Rg3.17488@newsfe17.iad>
Source record: 17247

"MTV" <volztexas355@comcast.net> wrote in message
news:u_%ql.11723$UQ6.5606@en-nntp-03.dc1.easynews.com...

< snip >

> >
> > I didn't see this mentioned: Have you investigated the possible use of
a
> > concrete "deadman anchor"?
> >
>
> What's that? A block of concrete...?

Yes. It's the favored material because it won't rust or corrode, like its metal counterpart. Metal used sometimes, but only for temporary guys, like a Field Day antenna tower.

Cut a hole in the ground and prop a metal rod in the hole. Fill around with concrete, like a fence post. I did a 10' satellite dish mount in 1985. Sucker never moved a millimeter, even with that big dish hanging off to one side

1424. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 04:31:12 UTC
From: "D. Stussy" <spam@bde-arc.ampr.org>
Message-ID: <goibqdhuv1@aux.snarked.org>
Source record: 17248

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
news:oFJql.35808$EO2.34726@newsfe04.iad...
> "Ian Jackson" <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in message
> news:VSz$00N6$uqJFwMR@g3ohx.demon.co.uk...
>
> < More snippage >
>
> After the hole is through, slide in a piece of All-Thread, flange it with
> some sheet aluminum (and maybe a couple of rubber bumpers to be a little
> kinder to the bark) and add nuts. Attach your guy wire to the protruding
> end of the All-Thread.
>
> Trees will tolerate being drilled. I mounted a garden hose rack on a
tree
> about 20 years ago; tree and hose rack still doing fine as of this
> afternoon.

Mounting a garden hose rack isn't the same as anchoring a guy wire for a
50' tower.

1425. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 04:33:36 UTC
From: "D. Stussy" <spam@bde-arc.ampr.org>
Message-ID: <goibut$i05$1@aux.snarked.org>
Source record: 17249

"Ken Slimmer" <ken@wa0sbu.com> wrote in message
news:peGdnfKw9cQ8bDbUnZ2dnUVZ_tjinZ2d@giganews.com...
> On Sun, 01 Mar 2009 23:39:07 -0500, John Passaneau wrote:
> > Ken Slimmer wrote:
> >> On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
> >>> Stupid idea. Trees grow and thus move over time. They're not stable
> >>> long enough for construction purposes.
> >>
> >> Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
> >> feet from the ground.
> >>
> >> 73's
> >> Ken Slimmer, WA0SBU
> >
> > Bad idea, trees move in the wind even big ones close to the ground.
That
> > puts a lot of extra strain on the tower. If the tree blows over so does
> > your tower and trees blow over more often than towers. Also it's bad
for
> > the tree and can kill it then it's an even worse guy anchor. I've seen
> > it done and by people who should have known better and it came to a bad
> > end. My ham club salvaged some nice hard line off the wreckage though.
>
> I wasn't advocating the use of trees as Guy supports for a tower.

No, but the OP of the thread did - a 50' tower.

1426. [ADMIN,META] Allow crossposting to rec.radio.amateur.moderated?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 14:22:16 UTC
From: rram@panix.com
Message-ID: <gojeci$m74$1@reader1.panix.com>
Source record: 17250
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.amateur.moderated

(Followups directed to poster by default. If followup to newsgroups is desired, edit your headers on followup to drop rec.radio.amateur.moderated from the Newsgroups line, else your article will be rejected.)

The rec.radio.amateur.moderated newsgroup enters its 3rd year of operation this month. Since its creation in February of 2007, we have approved nearly 3,000 articles about amateur radio and closely related subjects. We would like to thank our readers and posters for their quality contributions to our newsgroup.

When we first started out, consistent with our newsgroup's Charter and Posting Guidelines:

http://www.panix.com/~rram/usenet/rram/

we allowed discussion threads to be posted to our newsgroup only. Our moderation software is programmed to automatically reject any crossposts. The one exception has been periodic information postings that are crossposted to rec.radio.info, rec.answers, and/or news.answers.

Some moderated newsgroups, such as those in the comp.lang.perl.* and misc.kids.* hierarchies, started accepting crosspostings to appropriate unmoderated newsgroups after a suitable waiting period from their initial creation. Now that our newsgroup is well-established and carried at most major sites, we would like to implement this customary followup and allow some crossposting. We would propose to allow simultaneous crossposting (i.e., one article, with all newsgroups specified at once on the Newsgroups line in the headers) to rec.radio.amateur.moderated and one other unmoderated newsgroup in the rec.radio.amateur.*, alt.radio.amateur.*, and alt.ham-radio.* hierarchies only.

Pros:

- Allows the moderated and unmoderated newsgroups to share discussion threads of common interest, without propagating more than one set of articles to news, or showing them more than once in a newsreader. Presently, threads of common interest have to run in parallel, with different sets of followups, and requiring readers to have to follow two threads, possibly with duplicate articles, in different newsgroups. We have seen multiple examples of this happening in the amateur-radio-related newsgroups over the past 2 years.

- Provides the default action of submitting articles and followups to moderator review, as news servers will forward to us for approval any article that contains rec.radio.amateur.moderated on the Newsgroups line. This allows the moderated newsgroup crossposting to serve as a "guardian" or "sentinel" to discourage threads from getting hijacked into running off-topic or into personal abuse. This may also encourage posters to use the underutilized rec.radio.amateur.misc or .policy newsgroups as crossposting targets for articles that might otherwise be posted only to .moderated.

- Readers of the unmoderated newsgroups will enjoy high-quality, on-topic, discussion threads that would otherwise require subscribing to and reading a moderated newsgroup. Readers of the moderated newsgroup will enjoy high-quality, on-topic, discussion threads that would otherwise require subscribing to and reading other unmoderated newsgroups. Those unmoderated newsgroups may contain articles of widely varying degrees of quality and topic relevance.

- Participation in this crossposting scheme is completely voluntary. Posters of initial articles in threads will make the voluntary choice to add rec.radio.amateur.moderated and one other unmoderated newsgroup to the Newsgroups line when posting. Those following up to these crossposted threads will make a voluntary choice whether to keep rec.radio.amateur.moderated or any other newsgroup on the Newsgroups line, or remove them. Followups may be directed by default to any subset of the newsgroups on the Newsgroups line (or via E-mail to "poster") by specifying them on an appropriate Followup-To line. In short, you control what you post, where you post it, and what default destinations you want for any followups. This proposed crossposting scheme does not change any of these long-standing features of Usenet and newsreader software.

Cons:

- This will subject all such simultaneously crossposted articles to moderator review by us. If they do not meet the Charter and Posting Guidelines of rec.radio.amateur.moderated, they will be rejected. We will attempt to work with submitters to let them know what is happening, and how their articles can be fixed for eventual approval. However, rejected articles that were submitted anonymously without a traceable/derivable E-mail address or identity will have to be dropped silently without feedback to the unreachable submitter.

- Moderator review will introduce some posting delay. However, it has been our experience over the last 2 years that with our large moderation team distributed across many time zones, and the automation provided by our moderation software, we can turn submissions around relatively quickly, often within an hour.

- Many newsreaders do not give clear feedback to the user what newsgroups in which a given article appears, nor to what newsgroups a followup to that article will be sent by default. We expect to initially have to handle a few confused, possibly angry, submitters

who will insist that they did not intend to post to a moderated newsgroup. We are willing to provide the necessary polite feedback and user education to them to allow this crossposting scheme to work effectively. This will help ensure that the scheme is only used by those who are reasonably aware of the various pros and cons. We hope that this problem will diminish with time and greater user awareness.

- Not all newsgroups, especially those in the alt.* hierarchy, are carried at all sites. Users may find themselves following up by default to newsgroups that do not exist on their local news server, possibly resulting in article rejection from their server. Those users would have to edit their Newsgroups line for successful resubmission. We will work with users to get appropriate newsgroups added to their local servers, as well as with Panix to get those newsgroups added to Panix's server. However, as with default followups described in the previous paragraph, we expect to have to go through an initial period of user and news service provider education and polite feedback. We hope that this problem also will diminish with time and greater user awareness.

We propose to enforce this scheme in our moderation software as follows:

- Submissions simultaneously crossposted to more than 2 newsgroups will be automatically rejected with a rejection form letter (same as what happens now to submissions that are posted to more than 1 newsgroup).

- Submissions that contain newsgroups on the Newsgroups line other than approved newsgroups in the rec.radio.amateur.*, alt.radio.amateur.*, or alt.ham-radio.* hierarchies will be automatically rejected with a rejection form letter.

Approved rec.radio.amateur.* newsgroups are those that are currently listed in the latest version of the "List of Big Eight Newsgroups" which is crossposted monthly to news.announce.newgroups, news.groups, and news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those that have been created consistent with the suggestions in "So You Want to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

We will make every reasonable effort to keep our list of approved newsgroups up-to-date. In case we have overlooked any, and a submission is rejected in error as a result, the rejected submitter can E-mail us at our administrative contact address (in the signature at the bottom of this article, and the default Reply-To for the rejection message) requesting that it be added, and that the article be approved. We may still choose to reject articles crossposted to any alt.* newsgroup with an inappropriate name, including obscene language, embedded name-calling, or encouragement of unlawful conduct.

To help publicize this new editorial policy, we will update our Posting Guidelines, which are posted to the moderated newsgroup on the 15th of each month. Changes to our Posting Guidelines are indicated by an updated date in the Revision: auxiliary header at the top of the body, as well as "change bars" ('|') after each modified line of text. We will also add a short announcement, posted on the 1st of each month and cross-posted to the unmoderated newsgroups, restating this new editorial policy, and encouraging crossposted submissions.

Since this is a change to our newsgroup's editorial policies, and with some impact to the readers and posters of the unmoderated newsgroups, we would like to solicit 30 days of direct feedback and/or public discussion regarding this proposed change. For example, we would be interested to know if allowing crossposting to one other unmoderated newsgroup is enough, or if two would be preferable. We feel that more than two additional crossposted newsgroups greatly increases the probability of misconduct or accidental misposting that may result in article rejection by us. Also, should this scheme be opened up to uk.radio.amateur and aus.radio.amateur.* as well? You may send us E-mail directly to our administrative contact address below, which is the default Followup-To/Reply-To for this article. You may also discuss this publicly on the unmoderated newsgroups. In fact, we cannot stop you from doing so. We will make every reasonable effort to incorporate any feedback and suggestions. If we decide to implement this proposal, we will make a public announcement shortly after the end of the 30-day discussion period.

(Followups directed to poster by default. If followup to newsgroups is desired, edit your headers on followup to drop rec.radio.amateur.moderated from the Newsgroups line, else your article will be rejected.)

--
rec.radio.amateur.moderated Admin
rec-radio-amateur-moderated-request@panix.com

1427. # Re: #Re: Hijacking Newsgroup Threads

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 15:53:46 UTC
From: Stray Dog <sdog2008@sdf.lonestar.org>
Message-ID: <Pine.NEB.4.64.0903031540110.12210@sdf.lonestar.org>
Source record: 17151
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

On Mon, 2 Mar 2009, Esther & Fester Bestertester wrote:

> Date: Mon, 2 Mar 2009 19:44:12 -0800
> From: Esther & Fester Bestertester <not@me.really>
> Newsgroups: rec.radio.amateur.antenna, rec.radio.amateur.homebrew,
> rec.radio.amateur.misc
> Subject: Re: #Re: Hijacking Newsgroup Threads
>
> Is there a corollary of Godwin Law where the original thread devolves into a
> discussion of Godwin's Law?

I am not aware of this, but the chances are surely infinitesimal.

A related (psychological) phenomenon is: "the elephant in the livingroom"
which is a tag label for people who are unaware of their own problems even
though everyone around them can see it.

My own pet notions about newsgroup threads are as follows:

1. It is a fact that dogs, when out being walked by their owners (or dogs
wandering on their own), go around and sniff fire hydrants and tree trunks
for dog piss residue. Because of their olfactory sensitivity, dogs can
identify other dogs on piss smell alone. So, its a form of communication.
After the sniff, the dog pisses on top of the prior layer of piss to tell
the next dog (maybe the same one as before) something like "Hi Joe, this
is Pete", etc., and thus makes dog socializing possible (as for millions
of years), and now, humans can do the same on newsgroup threads (read the
post, reply to the post, etc., thus giving rize to terms like "pissing
contest" etc).

2. There is a certain resemblance, to a certain degree, to the bar scene
in the movie "Star Wars"

3. I've also had the observations that: i) no matter what you say, and no
matter what your intentions, there will always be at least one person out
there who will be unhappy with what you say, ii) they will also completely
misunderstand what you say, and iii) no matter what you do to try to
explain it, it will still be misunderstood. In my retirement years I've
been reading a lot of history; kinda makes it obvious why we've had
thousands of years of wars, destruction, death, pain. Hmmmmmm? Is there a
lesson there? On newsgroups, thus, we get flamewars as a substitute.

1428. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 16:38:59 UTC
From: JB <nospam@goofball.net>
Message-ID: <D2drl.985$gm6.777@nwrddc02.gnilink.net>
Source record: 17152

>> The level was about 40uV and the level was
continuous for the duration of the storm. Does snow normallly cause
more of a static problem than rain? Living in the SOuth snow isnot
something I have a lot of experience with.

>>Jimmie

It is usually very dry when it snows but it can do that with rain too. The
charge builds up as it falls and snaps when striking the antenna elements.
Smog and dust can do the same thing and we hear that when it is very dry and
the wind blows even on weak and long path FM signals.

1429. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 17:23:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <wldrl.1191$im1.1099@nlpi061.nbdc.sbc.com>
Source record: 17153

JB wrote:
> It is usually very dry when it snows but it can do that with rain too. The
> charge builds up as it falls and snaps when striking the antenna elements.
> Smog and dust can do the same thing and we hear that when it is very dry and
> the wind blows even on weak and long path FM signals.

During an Arizona dust storm, the charged-dust-particles
transferred their charges to my G5RV and the disconnected
coax connector laying on the floor arced with such intensity
that it caused my shag rug to smoke. :-(It was previously
arcing across the coax terminal on my IC-745 but apparently
didn't cause any damage with the power off. I can imagine
what it would have sounded like if I had turned on the power.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1430. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 19:43:14 UTC
From: David Lesher <wb8foz@panix.com>
Message-ID: <gok18h$6b1$2@reader1.panix.com>
Source record: 17154
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Esther & Fester Bestertester <not@me.really> writes:

>> However, you are far, far better off with a separate feeder and a 2-way
>> A/B switch. They are only a few dollars each.

>Better in the sense of being there to throw the switch, maybe. But I've got a
>programmable-event DTV converter box which allows me to record shows
>automatically. The antenna set-up needs to be automated.

Two friends both bought a $125 dual DTV RX box; its output is TCP/IP and the
control input a web browser.

One antenna goes each way....

--
A host is a host from coast to coast.................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433

1431. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 21:36:02 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <apednfDBfsVfPzDUnZ2dnUVZ_qDinZ2d@giganews.com>
Source record: 17155

On Mon, 02 Mar 2009 20:33:36 -0800, D. Stussy wrote:

> "Ken Slimmer" <ken@wa0sbu.com> wrote in message
> news:peGdnfKw9cQ8bDbUnZ2dnUVZ_tjinZ2d@giganews.com...
>> On Sun, 01 Mar 2009 23:39:07 -0500, John Passaneau wrote:
>> > Ken Slimmer wrote:
>> >> On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>> >>> Stupid idea. Trees grow and thus move over time. They're not
>> >>> stable long enough for construction purposes.
>> >>
>> >> Mark a spot 4-5 feet up on a tree, 20 years later it will still be
>> >> 4-5 feet from the ground.
>> >>
>> >> 73's
>> >> Ken Slimmer, WA0SBU
>> >
>> > Bad idea, trees move in the wind even big ones close to the ground.
> That
>> > puts a lot of extra strain on the tower. If the tree blows over so
>> > does your tower and trees blow over more often than towers. Also it's
>> > bad
> for
>> > the tree and can kill it then it's an even worse guy anchor. I've
>> > seen it done and by people who should have known better and it came
>> > to a bad end. My ham club salvaged some nice hard line off the
>> > wreckage though.
>>
>> I wasn't advocating the use of trees as Guy supports for a tower.
>
> No, but the OP of the thread did - a 50' tower.

I called the tree police, they said unless you could prove he was abusing
his tree's there was little they could do about it. :-)

Have a great day
--
73's
Ken Slimmer, WA0SBU

1432. Re: Whats a Good Source for Ferrite Donuts

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-03 21:52:54 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <776bb174-09c6-4f6d-9436-56084a61d500@r36g2000prf.googlegroups.com>
Source record: 17156

On Feb 25, 2:58 pm, "R.Scott" <w7...@yahoo.com> wrote:
> Want to see if I can remove some of the RFI getting into the puter
> (and maybe back into the rig).
>
> So I want to wind some of the Keyboard/Mouse/Video cords in some
> Donuts. Anyone know where I can grab em easy and REASONABLE :)
>
> Scotty W7PSK

Most any good bakery can make up special orders. They will probably
have a minimum order. When my wife request lemon-rasberry she had to
order twelve dozen.

Jimmie

1433. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 02:01:04 UTC
From: "D. Stussy" <spam@bde-arc.ampr.org>
Message-ID: <goko98mtp1@aux.snarked.org>
Source record: 17158

"Ken Slimmer" <ken@wa0sbu.com> wrote in message
news:apednfDBfsVfPzDUnZ2dnUVZ_qDinZ2d@giganews.com...
> On Mon, 02 Mar 2009 20:33:36 -0800, D. Stussy wrote:
> > "Ken Slimmer" <ken@wa0sbu.com> wrote in message
news:peGdnfKw9cQ8bDbUnZ2dnUVZ_tjinZ2d@giganews.com...
> >> On Sun, 01 Mar 2009 23:39:07 -0500, John Passaneau wrote:
> >> > Ken Slimmer wrote:
> >> >> On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
> >> >>> Stupid idea. Trees grow and thus move over time. They're not
> >> >>> stable long enough for construction purposes.
> >> >>
> >> >> Mark a spot 4-5 feet up on a tree, 20 years later it will still be
> >> >> 4-5 feet from the ground.
> >> >
> >> > Bad idea, trees move in the wind even big ones close to the ground.
That
> >> > puts a lot of extra strain on the tower. If the tree blows over so
> >> > does your tower and trees blow over more often than towers. Also
it's
> >> > bad for
> >> > the tree and can kill it then it's an even worse guy anchor. I've
> >> > seen it done and by people who should have known better and it came
> >> > to a bad end. My ham club salvaged some nice hard line off the
> >> > wreckage though.
> >>
> >> I wasn't advocating the use of trees as Guy supports for a tower.
> >
> > No, but the OP of the thread did - a 50' tower.
>
> I called the tree police, they said unless you could prove he was abusing
> his tree's there was little they could do about it. :-)

Did you also call the tower police to see if he was abusing the tower?

1434. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 02:04:46 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <0737674b-995f-4371-97cd-a1a38c630bf5@w35g2000yqm.googlegroups.com>
Source record: 17157

On Mar 2, 6:51 pm, "David G. Nagel" <nagel.da...@sbcglobal.net> wrote:
> Ken Slimmer wrote:
> > On Mon, 02 Mar 2009 16:46:21 +0000, Ian Jackson wrote:
>
> >> In message <peGdne2w9cTLbzbUnZ2dnUVZ_tjin...@giganews.com>, Ken Slimmer
> >> <k...@wa0sbu.com> writes
> >>> On Sun, 01 Mar 2009 20:28:42 +0000, Ian Jackson wrote:
>
> >>>> In message <eizql.83000$2h5.62...@newsfe11.iad>, Ken Slimmer
> >>>> <k...@wa0sbu.com> writes
> >>>>> On Sat, 28 Feb 2009 16:53:38 -0800, D. Stussy wrote:
>
> >>>>> Stupid idea. Trees grow and thus move over time. They're not
> >>>>> stable long enough for construction purposes.
> >>>>> Mark a spot 4-5 feet up on a tree, 20 years later it will still be 4-5
> >>>>> feet from the ground.
>
> >>>> But won't the diameter, where you marked, be a lot greater? Anything
> >>>> tied to the tree will get buried in the wood. Even if you leave 'room
> >>>> for expansion', this may still happen. A tight loop, buried in the
> >>>> wood, will also choke off the sap, and possibly kill the part of the
> >>>> tree above.
> >>> Ian;
> >>>   We have used trees as supports for barbed wire by wrapping it
> >>>   around
> >>> the tree. The tree just grew over it, healing itself as it grew around
> >>> it.
>
> >> This indeed can happen. I did say 'possibly'. I have a grape vine
> >> growing up one wall of the house (and, given half a chance, would take
> >> over the other three), and I see it where I have tied it up a bit too
> >> tightly to the support wires. However, I doubt if any plant is as happy,
> >> healthy or strong as it would have been without the strangulation. It's
> >> the sort of thing that needs to be checked every so often, and suitable
> >> adjustments made.
>
> > You can't believe how many trees I have cut for firewood and had barbed
> > wire, nails, even steel posts in them.
>
> If you want to see someone run. Offer a sawyer a large tree cut from a
> fence row.- Hide quoted text -
>
> - Show quoted text -

My father in law was an excelent wood craftsman often making things
from wood he had havested.
The first thing he would do before cutting the wood to size is run a
metal detector over it. He had even found large pieces of metal buried
in OSB.

Jimmie

1435. Re: Guy wires to trees?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 02:42:15 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <bUlrl.19314$l71.9186@newsfe23.iad>
Source record: 17159

"D. Stussy" <spam@bde-arc.ampr.org> wrote in message
news:goibqdhuv1@aux.snarked.org...

>
> Mounting a garden hose rack isn't the same as anchoring a guy wire for a
> 50' tower.
\

True. I only made that observation for someone who wondered about the
effect of puncturing the tree. (I did it without any problem and maybe
someone else can, too.)

I should have made that clearer.

1436. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 04:33:20 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <lwnrl.25580$Zp.19153@newsfe21.iad>
Source record: 17160

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:wIdrl.1191$im1.1099@nlpi061.nbdc.sbc.com...
> JB wrote:
> > It is usually very dry when it snows but it can do that with rain too.
The
> > charge builds up as it falls and snaps when striking the antenna
elements.
> > Smog and dust can do the same thing and we hear that when it is very dry
and
> > the wind blows even on weak and long path FM signals.
>
> During an Arizona dust storm, the charged-dust-particles
> transferred their charges to my G5RV and the disconnected
> coax connector laying on the floor arced with such intensity
> that it caused my shag rug to smoke. :-(It was previously
> arcing across the coax terminal on my IC-745 but apparently
> didn't cause any damage with the power off. I can imagine
> what it would have sounded like if I had turned on the power.

Navy ships use whip antennas for HF receive and these are prone to build up
static charges unless something is done. The usual solution is a 50K-ohm
resistor to ground near the base of the whip, enclosed in what's called a
termination box, where coaxial cable is interfaced to the whip. The
resistor is usually termed electrostatic discharge protection, or simply the
"static drain resistor."

1437. Re: VHF static

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 05:43:30 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d06f634e-094e-4f4c-8760-4189093d0a1b@u1g2000vbb.googlegroups.com>
Source record: 17161

On Mar 3, 11:23 am, Cecil Moore <nos...@w5dxp.com> wrote:
> JB wrote:
> > It is usually very dry when it snows but it can do that with rain too. The
> > charge builds up as it falls and snaps when striking the antenna elements.
> > Smog and dust can do the same thing and we hear that when it is very dry and
> > the wind blows even on weak and long path FM signals.
>
> During an Arizona dust storm, the charged-dust-particles
> transferred their charges to my G5RV and the disconnected
> coax connector laying on the floor arced with such intensity
> that it caused my shag rug to smoke. :-(It was previously
> arcing across the coax terminal on my IC-745 but apparently
> didn't cause any damage with the power off. I can imagine
> what it would have sounded like if I had turned on the power.
> --
> 73, Cecil http://www.w5dxp.com
> "Government 'help' to business is just as disastrous as
> government persecution..." Ayn Rand

Cecil
One more time.
Unbound static particles rest on diamagnetic materials of which water
is one
Updraft in a storm collects not only water but also the static
particles at rest.
When the moisture changes physically(ice , snow etc) and the
particles have no room
to stand where during to its travels it has gained charge. This
conglomeration of charge can transfer to another cloud that is still
in the moisture status or down to earth (diamagnetic material also
such as aluminum) when reaching the ground or moisture clouds, It
reverts to its static particle status where the charge is then
released upwardsto the clouds.
The original charge came from the movement of clouds relative to earth
and if one consideres the application of G.U.T. (Grand universal
theorem per Einstein and Newton) one can see this as part of applied
current which also must include a rotataional force as per
displacement current. Review of weather patterns on the TV clearly
shows the rotational aspect when weather changes are prevalent.
Thus the noise heard on the radio is the dissipation of energy from
the charged particle as it reverts to its original static particle
orientation when it settles on one antenna.
Nuff said

1438. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 08:41:49 UTC
From: Esther & Fester Bestertester <not@me.really>
Message-ID: <0001HW.C5D37ECD01F660E2B01AD9AF@news.sf.sbcglobal.net>
Source record: 17162
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

> Two friends both bought a $125 dual DTV RX box; its output is TCP/IP and the
> control input a web browser.

Would that be:

<http://www.silicondust.com/products/hdhomerun_atsc> ?

1439. radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 11:22:44 UTC
From: john zeiss <bluestar@mail.invalid>
Message-ID: <goloa7$bp4$1@news.motzarella.org>
Source record: 17163
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

We have a small portable sony radio, and it has the usual type of extendable aerial (antenna) that you get on small japanese radios.

It now refuses to maintain its position at an *angle*. Slowly but surely it drops down until it reaches the horizontal position.

The small screw has been tightened up, but even as tight as we think we can do it without stripping the slots in the screw head, it is not enough to *clamp* the aerial to stop it dropping down.

Basically the aerial at its base is a square shape with one small bronze coloured washer each side of it and that all sits in a ' U ' shaped base with it all being clamped with a small screw.

Are there any tricks you know of, to get it to behave? Thanks.

1440. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 11:30:34 UTC
From: spam@spam.com
Message-ID: <49b76618.354556828@localhost>
Source record: 17164
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

On Wed, 4 Mar 2009 11:22:44 -0000, "john zeiss"
<bluestar@mail.invalid> wrote:

>We have a small portable sony radio, and it has the usual type of
>extendable aerial (antenna) that you get on small japanese radios.
>
>It now refuses to maintain its position at an *angle*. Slowly but surely
>it drops down until it reaches the horizontal position.
>
>The small screw has been tightened up, but even as tight as we think we can
>do it without stripping the slots in the screw head, it is not enough to
>*clamp* the aerial to stop it dropping down.
>
>Basically the aerial at its base is a square shape with one small bronze
>coloured washer each side of it and that all sits in a ' U ' shaped base
>with it all being clamped with a small screw.
>
>Are there any tricks you know of, to get it to behave? Thanks.
>

Does this radio live in a kitchen? If so, you may want to unscrew it
from its base and degrease the two parts - I suspect cooking-based
lubrication.

d

1441. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 12:01:47 UTC
From: Whiskers <catwheezel@operamail.com>
Message-ID: <slrngqsrdb.bca.catwheezel@ID-107770.user.individual.net>
Source record: 17166
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

On 2009-03-04, Don Pearce <spam@spam.com> wrote:
> On Wed, 4 Mar 2009 11:22:44 -0000, "john zeiss"
> <bluestar@mail.invalid> wrote:
>
>>We have a small portable sony radio, and it has the usual type of
>>extendable aerial (antenna) that you get on small japanese radios.
>>
>>It now refuses to maintain its position at an *angle*. Slowly but surely
>>it drops down until it reaches the horizontal position.
>>
>>The small screw has been tightened up, but even as tight as we think we can
>>do it without stripping the slots in the screw head, it is not enough to
>>*clamp* the aerial to stop it dropping down.
>>
>>Basically the aerial at its base is a square shape with one small bronze
>>coloured washer each side of it and that all sits in a ' U ' shaped base
>>with it all being clamped with a small screw.
>>
>>Are there any tricks you know of, to get it to behave? Thanks.
>>
>
> Does this radio live in a kitchen? If so, you may want to unscrew it
> from its base and degrease the two parts - I suspect cooking-based
> lubrication.
>
> d

If that doesn't work (and you manage not to lose the washers), there is
probably wear that needs 'taking up' - an old-fashioned hardware shop, or
an electrical/electronic repair shop, should be able to supply replacement
washers. A temporary make-shift shim using paper or aluminium foil
/might/ work.

I've seen replacement aerials on sale too, in case all else fails.

--
-- ^^^^^^^^^^
-- Whiskers
-- ~~~~~~~~~~

1442. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 12:06:34 UTC
From: Ron <ron@lunevalleyaudio.com>
Message-ID: <yr2dnYrMVM9Q8zPUnZ2dnUVZ8syWnZ2d@bt.com>
Source record: 17165
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

john zeiss wrote:
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.
>
>
Take the two washers out and restore the 'curl' in them by pressing them
over the shaft of a screwdriver.

1443. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 12:48:32 UTC
From: philo <philo@privacy.net>
Message-ID: <3LqdnYiYBrIg5TPUnZ2dnUVZ_s3inZ2d@ntd.net>
Source record: 17167
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

john zeiss wrote:
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.
>
>
>
>
>
>
>

If you are able to work carefully :

Remove the screw, then ...with a high-quality drill bit...
drill a hole all the way through...just slightly larger than the
original hole..

Then get a high-grade screw and nut...Use a Nylon Lock nut and you
should then be able to tighten the antenna enough so that it will no
longer tilt.

1444. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 12:55:59 UTC
From: Desk Rabbit <me@example.com>
Message-ID: <goltov$u3g$3@deskrabbit.motzarella.org>
Source record: 17168
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

john zeiss wrote:
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.

The washers are spring washers which provide a degree of tension so that
the screw doesn't need to be over tight and thus allows the movement.
Over tightening the screw will flatten the washers and ruin them. I'd
suggest seeking replacement washers or a new aerial which might be easier.

1445. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 13:01:53 UTC
From: DNA <wattdoinow@nuffink.invalid>
Message-ID: <golu44$ch2$1@news.motzarella.org>
Source record: 17169
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

philo <philo@privacy.net> wrote:
> john zeiss wrote:
>> We have a small portable sony radio, and it has the usual type of
>> extendable aerial (antenna) that you get on small japanese radios.
>>
>> It now refuses to maintain its position at an *angle*. Slowly but
>> surely it drops down until it reaches the horizontal position.
>>
>> The small screw has been tightened up, but even as tight as we think
>> we can do it without stripping the slots in the screw head, it is
>> not enough to *clamp* the aerial to stop it dropping down.
>>
>> Basically the aerial at its base is a square shape with one small
>> bronze coloured washer each side of it and that all sits in a ' U '
>> shaped base with it all being clamped with a small screw.
>>
>> Are there any tricks you know of, to get it to behave? Thanks.
>>
>>
>>
>>
>>
>>
>>
>>
>
>
> If you are able to work carefully :

That's an understatement before I even read the next bit of your witches
brew.

> Remove the screw, then ...with a high-quality drill bit...
> drill a hole all the way through...just slightly larger than the
> original hole..

You are kidding right? You know exactly how hard that would be to do. There
would be bearly enough meat on that as it is, let alone the chance of the
drill bit biting into what is there and breaking the union - he'd have to
resort to some metal to metal bonding glue and some duct tape by the end of
it all.

What were you thinking?

> Then get a high-grade screw and nut...Use a Nylon Lock nut and you
> should then be able to tighten the antenna enough so that it will no

> longer tilt.

1446. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 13:49:14 UTC
From: dave <dave@dave.dave>
Message-ID: <TuednXMhpshHGzPUnZ2dnUVZ_uWWnZ2d@earthlink.com>
Source record: 17170
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

john zeiss wrote:
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.
>
>
>
Buy a replacement antenna.

1447. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 14:01:44 UTC
From: Keyser S�ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gom1kb$kt3$1@news.motzarella.org>
Source record: 17171
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

john zeiss <bluestar@mail.invalid> wrote in message
news:goloa7$bp4$1@news.motzarella.org:

> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but
> surely it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think
> we can do it without stripping the slots in the screw head, it is not
> enough to *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small
> bronze coloured washer each side of it and that all sits in a ' U '
> shaped base with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.

Get some garden wire, the gauge you need to apply a bit of force to to get
it into the shape and position you want.

Then, place the wire through the mounting holes and the aerial (hook the
end) and simply wind the wire around the aerial until you've covered the
fitting and above - you could even wind the wire back down to double up on
strength and flexibility.

At least that way you are still able to adjust the aerial should you need
to - And if done well, it won't look too much like a ham-fisted job.

--
In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1448. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 14:09:43 UTC
From: newshound <newshound@fairadsl.co.uk>
Message-ID: <717gdhFjtu6gU1@mid.individual.net>
Source record: 17172
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

>> Remove the screw, then ...with a high-quality drill bit...
>> drill a hole all the way through...just slightly larger than the
>> original hole..
>
> You are kidding right?

I've done it myself. Seems a perfectly reasonably suggestion, provided you have the right tools and some small nuts and bolts.

1449. Re: 2009 Hybrid cars with HF radio and RFI

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 14:21:47 UTC
From: nm5k@wt.net
Message-ID: <cd58b28f-b699-4c46-9ad6-35ab49d46021@k9g2000prh.googlegroups.com>
Source record: 17173

On Feb 21, 3:10 am, boB <boB@> wrote:
> Does anybody have experience with any of the 2009 Prius or Honda
> civic hybrid cars with HF installed ??   I hear that at least 2006
> Prius' have quite a bit of RF interference that evidently can be
> cleaned up quite a bit.... BUT, how about the 2009 Prius OR 2009
> Honda Civic Hybrids.
>
> And, any experience on HF antenna mounting on the Honda hybrid ??
>
> boB , K7IQ

Have no ideas about the noise. I'm running a Corolla.
But from an antenna mounting issue, any of these small
cars are a real pain when it comes to mounting a "good"
HF antenna. Any antenna of weight will need a strong mount,
and the sheet metal on these cars is pretty thin.
So you either have to rig up some kind of below body mount,
like a hitch mount or whatever, or use a lighter antenna on a
body or trunk mount. IE: ham sticks, or other fairly light antennas.
Some use the roof magnet mounts, but I'm paranoid of messing
the paint up, or creasing the metal when I try to yank one off.
I could use a trunk lip mount with a light antenna. Might be my
best option..
The last Honda Accord I had, I cut a hole in the trunk for a
mount. But I had to reinforce the whole bottom of the trunk lid
for it to be strong enough to handle my antenna. I used thin
steel plates, and a large steel circle plate at the base of the
antenna.
But.. I just can't bring myself to do that to my present car,
which has not a single dent in it.. :/ It's still like new basically,
and I just haven't been able to get myself to drill holes.
I know on the Accord, even with the reinforcement, it eventually
slightly warped the trunk metal. Not real bad, but noticeable.
And I don't want to take that chance with this car.
So far I've been going radio less.. :(I just take my radio
with me and use it portable when I get where I'm going.
If I try a mount, it will probably be a trunk lip mount if I can
be fairly sure it won't damage the trunk. And I'll probably
stick to pretty light antennas.
BTW, I hate bumper and hitch mounts cuz the antenna
base is too low to the ground, and the ground losses are
excessive vs a body mount.
I still have two trucks, both with good antenna mounts,
but I don't drive them as much as I used to. They guzzle

gas vs the car.

1450. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 14:35:59 UTC
From: Desk Rabbit <me@example.com>
Message-ID: <gom3kf$c8g$1@deskrabbit.motzarella.org>
Source record: 17174
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

philo wrote:
> john zeiss wrote:
>> We have a small portable sony radio, and it has the usual type of
>> extendable aerial (antenna) that you get on small japanese radios.
>>
>> It now refuses to maintain its position at an *angle*. Slowly but
>> surely
>> it drops down until it reaches the horizontal position.
>>
>> The small screw has been tightened up, but even as tight as we think
>> we can
>> do it without stripping the slots in the screw head, it is not enough to
>> *clamp* the aerial to stop it dropping down.
>>
>> Basically the aerial at its base is a square shape with one small bronze
>> coloured washer each side of it and that all sits in a ' U ' shaped base
>> with it all being clamped with a small screw.
>>
>> Are there any tricks you know of, to get it to behave? Thanks.
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>
> If you are able to work carefully :
>
> Remove the screw, then ...with a high-quality drill bit...
> drill a hole all the way through...just slightly larger than the
> original hole..
>
> Then get a high-grade screw and nut...Use a Nylon Lock nut and you
> should then be able to tighten the antenna enough so that it will no
> longer tilt.

You might as well replace the aerial with a new one. They are so cheap
and the time taken to fit a new one would be exactly the same as it
would be to make a lash up repair.

1451. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 14:37:37 UTC
From: DNA <wattdoinow@nuffink.invalid>
Message-ID: <gom3nk$e4n$1@news.motzarella.org>
Source record: 17175
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

newshound <newshound@fairadsl.co.uk> wrote:
>>> Remove the screw, then ...with a high-quality drill bit...
>>> drill a hole all the way through...just slightly larger than the
>>> original hole..
>>
>> You are kidding right?
>
> I've done it myself. Seems a perfectly reasonably suggestion,
> provided you have the right tools and some small nuts and bolts.

That the OP is posting for help on such a matter should indicate he is unlikely to have the smarts to do that, and if he did, he'd probably drill himself to death.

Personally, I don't know why he doesn't just get the welding kit out of the shed and go at it with that.

:-)

1452. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 14:45:48 UTC
From: Ron <ron@lunevalleyaudio.com>
Message-ID: <bIOdnYrlaLyCCTPUnZ2dnUVZ8rWWnZ2d@bt.com>
Source record: 17176
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

DNA wrote:
> newshound <newshound@fairadsl.co.uk> wrote:
>>>> Remove the screw, then ...with a high-quality drill bit...
>>>> drill a hole all the way through...just slightly larger than the
>>>> original hole..
>>> You are kidding right?
>> I've done it myself. Seems a perfectly reasonably suggestion,
>> provided you have the right tools and some small nuts and bolts.
>
> That the OP is posting for help on such a matter should indicate he is
> unlikely to have the smarts to do that, and if he did, he'd probably drill
> himself to death.
>
> Personally, I don't know why he doesn't just get the welding kit out of the
> shed and go at it with that.
>
> :-)
>
Well, now you're just being silly!

he wants it to still be adjustable.

:)

Ron

1453. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 14:51:07 UTC
From: DNA <wattdoinow@nuffink.invalid>
Message-ID: <gom4gtubv1@news.motzarella.org>
Source record: 17177
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

```
Ron <ron@lunevalleyaudio.com> wrote:
> DNA wrote:
>> newshound <newshound@fairadsl.co.uk> wrote:
>>>>> Remove the screw, then ...with a high-quality drill bit...
>>>>> drill a hole all the way through...just slightly larger than the
>>>>> original hole..
>>>> You are kidding right?
>>> I've done it myself. Seems a perfectly reasonably suggestion,
>>> provided you have the right tools and some small nuts and bolts.
>>
>> That the OP is posting for help on such a matter should indicate he
>> is unlikely to have the smarts to do that, and if he did, he'd
>> probably drill himself to death.
>>
>> Personally, I don't know why he doesn't just get the welding kit out
>> of the shed and go at it with that.
>>
>> :-)
>>
> Well, now you're just being silly!
>
> he wants it to still be adjustable.
>
> :)
>
> Ron 98
```

Good 'flash' point! Perhaps he could ask his wife to flamb it with jelly,
but I wouldn't know where to start, other than to ask the question on some
newsgroup.

```
;->
```

1454. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 16:48:26 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <ciyrl.13001$UQ6.1782@en-nntp-03.dc1.easynews.com>
Source record: 17178
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

john zeiss wrote:
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>

>
> Are there any tricks you know of, to get it to behave? Thanks.
>

Putty

1455. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:00:07 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <717qcrFjeckmU1@mid.individual.net>
Source record: 17179
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"DNA" wrote...
> philo wrote:
>> If you are able to work carefully :
>
> That's an understatement before I even read the next bit of your witches
> brew.
>
>> Remove the screw, then ...with a high-quality drill bit...
>> drill a hole all the way through...just slightly larger than the
>> original hole..
>
> You are kidding right? You know exactly how hard that would be to do.
> There would be bearly enough meat on that as it is, let alone the chance
> of the drill bit biting into what is there and breaking the union - he'd
> have to resort to some metal to metal bonding glue and some duct tape by
> the end of it all.
>
> What were you thinking?

I've done exactly this repair myself (to more than one radio).
This is a proven and practical repair technique. Dunno what
"DNA" is thinking?

1456. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:03:09 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <717qieFj5j9pU1@mid.individual.net>
Source record: 17180
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Desk Rabbit" wrote ...
> You might as well replace the aerial with a new one. They are so cheap and
> the time taken to fit a new one would be exactly the same as it would be
> to make a lash up repair.

That would be a practical response *IF* one could find an exact
replacement. Alas, there are thousands of different varieties of these
things, and they tend to be custom-designed for each model. Even
if there were exact replacements in a warehouse somewhere in
central Asia, finding one and getting it shipped to you would be
far less pratical than just tossing the radio and buying a new one.

1457. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:03:25 UTC
From: tony sayer <tony@bancom.co.uk>
Message-ID: <wEy$v7FdRrrJFwR0@bancom.co.uk>
Source record: 17183
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

In article <gom3nk$e4n$1@news.motzarella.org>, DNA
<wattdoinow@nuffink.invalid> scribeth thus
>newshound <newshound@fairadsl.co.uk> wrote:
>>>> Remove the screw, then ...with a high-quality drill bit...
>>>> drill a hole all the way through...just slightly larger than the
>>>> original hole..
>>>
>>> You are kidding right?
>>
>> I've done it myself. Seems a perfectly reasonably suggestion,
>> provided you have the right tools and some small nuts and bolts.
>
>That the OP is posting for help on such a matter should indicate he is
>unlikely to have the smarts to do that, and if he did, he'd probably drill
>himself to death.
>
>Personally, I don't know why he doesn't just get the welding kit out of the
>shed and go at it with that.
>
>:-)
>
>

Can't you just bodge it with a bit of sticky tape around it to hold it
upright ... or more upright;?..
--
Tony Sayer

1458. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:04:12 UTC
From: spam@spam.com
Message-ID: <49b8b479.374621812@localhost>
Source record: 17181
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

On Wed, 4 Mar 2009 09:03:09 -0800, "Richard Crowley"
<rcrowley@xp7rt.net> wrote:

>"Desk Rabbit" wrote ...
>> You might as well replace the aerial with a new one. They are so cheap and
>> the time taken to fit a new one would be exactly the same as it would be
>> to make a lash up repair.
>
>That would be a practical response *IF* one could find an exact
>replacement. Alas, there are thousands of different varieties of these
>things, and they tend to be custom-designed for each model. Even
>if there were exact replacements in a warehouse somewhere in
>central Asia, finding one and getting it shipped to you would be
>far less pratical than just tossing the radio and buying a new one.
>

I can see this ending up with a wire coat hanger ;-)

d

1459. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:05:25 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <717qmmFj9886U1@mid.individual.net>
Source record: 17182
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"dave" wrote ...
> Buy a replacement antenna.

Impractical. Almost every model has a custom-designed antenna
assembly. Even popular brands who may stock repair parts likely
charge more for them than the radio is likely worth.

1460. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:10:37 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <717r0eFipi7qU1@mid.individual.net>
Source record: 17184
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"john zeiss" wrote ...
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we
> can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.

1) Remove the screw and drill out the threads. Replace with an
appropriate size screw, washer, and nut. Or use a smaller screw
and you don't have to drill out the existing threads.

2) If the radio is used in a fixed position, get a cliplead (piece of wire
with an alligator clip on the end) and clip it onto the (collapsed) radio
antenna. You could attach the wire to the furniture/cabinet to reduce
its visible impact.

IME, it is not practical to try to find an exact mechanical replacement
because those assemblies tend to be custom designs for each model
of radio equipment.

1461. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:11:49 UTC
From: Desk Rabbit <me@example.com>
Message-ID: <gomcoh$1r6$2@deskrabbit.motzarella.org>
Source record: 17185
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Richard Crowley wrote:
> "Desk Rabbit" wrote ...
>> You might as well replace the aerial with a new one. They are so cheap and
>> the time taken to fit a new one would be exactly the same as it would be
>> to make a lash up repair.
>
> That would be a practical response *IF* one could find an exact
> replacement. Alas, there are thousands of different varieties of these
> things, and they tend to be custom-designed for each model. Even
> if there were exact replacements in a warehouse somewhere in
> central Asia, finding one and getting it shipped to you would be
> far less pratical than just tossing the radio and buying a new one.
>
>

The OP said it was a Sony. Parts should be readily available for such a
major brand. That said, most of these aerials are pretty much the same
shape and size on even the cheapest brand.

1462. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:13:36 UTC
From: Desk Rabbit <me@example.com>
Message-ID: <gomcrs$1r6$3@deskrabbit.motzarella.org>
Source record: 17186
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Richard Crowley wrote:
> "dave" wrote ...
>> Buy a replacement antenna.
>
> Impractical. Almost every model has a custom-designed antenna
> assembly.

Rubbish.

> Even popular brands who may stock repair parts likely
> charge more for them than the radio is likely worth.

Several varieties of portable radio telescopic aerials are available
from Maplins in the UK for less than 5 pounds. There are many other
suppliers.

1463. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 17:15:26 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <717r9gFjrb6nU1@mid.individual.net>
Source record: 17187
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Desk Rabbit" wrote ...
> Richard Crowley wrote:
>> "Desk Rabbit" wrote ...
>>> You might as well replace the aerial with a new one. They are so cheap
>>> and the time taken to fit a new one would be exactly the same as it
>>> would be to make a lash up repair.
>>
>> That would be a practical response *IF* one could find an exact
>> replacement. Alas, there are thousands of different varieties of these
>> things, and they tend to be custom-designed for each model. Even
>> if there were exact replacements in a warehouse somewhere in
>> central Asia, finding one and getting it shipped to you would be
>> far less pratical than just tossing the radio and buying a new one.
>
> The OP said it was a Sony. Parts should be readily available for such a
> major brand. That said, most of these aerials are pretty much the same
> shape and size on even the cheapest brand.

How many of these have you repaired yourself?
Or are you guessing? I'm speaking from first-hand experience.

1464. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 18:04:07 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gomfqq$ns0a$1@tr22n12.aset.psu.edu>
Source record: 17188
Cross-posted to: alt.radio.digital,sci.electronics.repair,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Richard Crowley wrote:
> "john zeiss" wrote ...
>> We have a small portable sony radio, and it has the usual type of
>> extendable aerial (antenna) that you get on small japanese radios.
>>
>> It now refuses to maintain its position at an *angle*. Slowly but surely
>> it drops down until it reaches the horizontal position.
>>
>> The small screw has been tightened up, but even as tight as we think we
>> can
>> do it without stripping the slots in the screw head, it is not enough to
>> *clamp* the aerial to stop it dropping down.
>>
>> Basically the aerial at its base is a square shape with one small bronze
>> coloured washer each side of it and that all sits in a ' U ' shaped base
>> with it all being clamped with a small screw.
>>
>> Are there any tricks you know of, to get it to behave? Thanks.
>
> 1) Remove the screw and drill out the threads. Replace with an
> appropriate size screw, washer, and nut. Or use a smaller screw
> and you don't have to drill out the existing threads.
>
> 2) If the radio is used in a fixed position, get a cliplead (piece of wire
> with an alligator clip on the end) and clip it onto the (collapsed) radio
> antenna. You could attach the wire to the furniture/cabinet to reduce
> its visible impact.
>
> IME, it is not practical to try to find an exact mechanical replacement
> because those assemblies tend to be custom designs for each model
> of radio equipment.

Another trick, depending on how the swivel is constructed, would be to
take a hammer and smash the radio to bits..... hold on, too much coffee
this morning.

Take that hammer, and maybe a nail, brace the swivel against a solid
object, and tap the other side until the swivel stiffens up a bit. It's
a temporary improvement, as the swivel will loosen again over time, but
if it's loosened anyhow, it doesn't make much difference.

- 73 de Mike N3LI -

1465. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 18:34:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <s2itq4t4bbigagi6b06f2ugj9648fu01n2@4ax.com>
Source record: 17189

On Wed, 4 Mar 2009 11:22:44 -0000, "john zeiss"
<bluestar@mail.invalid> wrote:

>It now refuses to maintain its position at an *angle*. Slowly but surely
>it drops down until it reaches the horizontal position.

This is because of the loss of equilibrium in the gussian particels.
They have become diamagnetized with the corresponding failure to
support internal current flow which formerly held that antenna at is
optimum non-vertical angle for efficient operation. Now that your
antenna (aerial borealis) has assumed full horizontality you should
think, instead, of tilting the radio to the proper vector relationship
that fully matches with the integral weak-force buoyancy.

73's
Richard Clark, KB7QHC

1466. Re: Hack a DTV antenna for dual directions?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 19:23:26 UTC
From: David Lesher <wb8foz@panix.com>
Message-ID: <gomkfeaeb5@reader1.panix.com>
Source record: 17190
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,rec.radio.amateur.misc

Esther & Fester Bestertester <not@me.really> writes:

>> Two friends both bought a $125 dual DTV RX box; its output is TCP/IP and the
>> control input a web browser.

>Would that be:

><http://www.silicondust.com/products/hdhomerun_atsc> ?

That looks like it but I'd have to ask to be sure...

--
A host is a host from coast to coast.................wb8foz@nrk.com
& no one will talk to a host that's close........[v].(301) 56-LINUX
Unless the host (that isn't close).........................pob 1433
is busy, hung or dead....................................20915-1433

1467. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 19:38:33 UTC
From: zekfrivo@zekfrivolous.com
Message-ID: <gomlbn$33j$1@usenet01.srv.cis.pitt.edu>
Source record: 17191
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

In article <goloa7$bp4$1@news.motzarella.org>, "john zeiss" <bluestar@mail.invalid> wrote:
>We have a small portable sony radio, and it has the usual type of
>extendable aerial (antenna) that you get on small japanese radios.
>
>It now refuses to maintain its position at an *angle*. Slowly but surely
>it drops down until it reaches the horizontal position.
>
>The small screw has been tightened up, but even as tight as we think we can
>do it without stripping the slots in the screw head, it is not enough to
>*clamp* the aerial to stop it dropping down.
>
>Basically the aerial at its base is a square shape with one small bronze
>coloured washer each side of it and that all sits in a ' U ' shaped base
>with it all being clamped with a small screw.
>
>Are there any tricks you know of, to get it to behave? Thanks.
>
>

Cyanoacrylate

1468. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 19:58:24 UTC
From: Ron <ron@lunevalleyaudio.com>
Message-ID: <nu2dnaZd-LH6QDPUnZ2dnUVZ8g-WnZ2d@bt.com>
Source record: 17192
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

GregS wrote:
> In article <goloa7$bp4$1@news.motzarella.org>, "john zeiss" <bluestar@mail.invalid>
wrote:
>> We have a small portable sony radio, and it has the usual type of
>> extendable aerial (antenna) that you get on small japanese radios.
>>
>> It now refuses to maintain its position at an *angle*. Slowly but surely
>> it drops down until it reaches the horizontal position.
>>
>> The small screw has been tightened up, but even as tight as we think we can
>> do it without stripping the slots in the screw head, it is not enough to
>> *clamp* the aerial to stop it dropping down.
>>
>> Basically the aerial at its base is a square shape with one small bronze
>> coloured washer each side of it and that all sits in a ' U ' shaped base
>> with it all being clamped with a small screw.
>>
>> Are there any tricks you know of, to get it to behave? Thanks.
>>
>>
>
> Cyanoacrylate

Geez. It`s just gone a bit floppy, the spring washers have lost their
tension, it shouldn`t be beyond the wit of man to either retension them,
find an old aerial from which the springs can be salvaged or if it comes
to it, purchase a replacement aerial from which the springs can either
be used or if he`s lucky enough to find a good match, the whole twig can
be used.

Here in the UK several companies spring immediately to mind who stock
quite a good range of generic replacement aerials, a bit of fiddling
will probably result in a workable solution.

Ron

1469. Re: N8WWM latest conviction...time served for driving without a license again. Too many drunk drivings

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 20:13:32 UTC
From: Steve <moparholic@hotmail.com>
Message-ID: <20090304151339.389$fH@newsreader.com>
Source record: 17193
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.amateur.equipment,rec.radio.shortwave,rec.radio.cb

"RF BURNS" <rfburns33@hotmail.com> wrote:
> > court document below----
> > Defendant DOB Case Number Violation
> ADAIR, DOUGLAS 07/10/1958 08TRD019070102 DRIVING W/O COMPLY
> W/LIC REINSTATEMENT REQ
>
> Journal Entry
> 07/03/2008 Affidavit Filed 07/03/2008 00:00, Citation issued on
> 07/01/2008 00:00. Defendant summoned to appear for arraignment on
> 07/11/2008
> 09:00 in court room 1. Personal appearance required. [Clerk entry]
> 07/11/2008 PD fee assessed. [JUDGE KELLER]
> 07/11/2008 Defendant ordered to pay fee for PUBLIC DEFENDER FEE..
> [JUDGE KELLER]
> 07/11/2008 Defendant present with attorney DEFENDER, PUBLIC , #9999.
> [JUDGE KELLER]
> 07/11/2008 Defendant requests a public defender. [JUDGE KELLER]
> 07/11/2008 Defendant found indigent by Court and public defender
> assigned. [JUDGE KELLER]
> 07/11/2008 Defendant attorney enters plea of not guilty. To Assignment
> Commissioner for date. [JUDGE KELLER]
> 07/11/2008 At the request of defendant attorney, case continued to
> 08/01/2008 09:00 in courtroom 1 for prosecutor pre-trial. [JUDGE KELLER]
> 07/11/2008 Case assigned to JUDGE KELLER. Plea indicated. [JUDGE
> KELLER]
> 08/01/2008 Defendant present with attorney PUBLIC DEFENDER, #9999.
> [JUDGE KELLER]
> 08/01/2008 Defendant attorney withdraws prior plea. [JUDGE KELLER]
> 08/01/2008 Defendant attorney enters plea of no contest. [JUDGE
> KELLER]
> 08/01/2008 Defendant found guilty by judge. [JUDGE KELLER]
> 08/01/2008 FRA Shown. [JUDGE KELLER]
> 08/01/2008 Defendant sentenced to pay $150.00 fine and $60.00 costs.
> [JUDGE KELLER]
> 08/01/2008 Defendant sentenced to 60 days in CORRECTIONS CENTER OF
> NORTHWEST OHIO. SUSPENDED. 30 days suspended. Stay on jail until
> 09/26/2008 18:00. [JUDGE KELLER]
> 08/01/2008 Commitment form printed on 08/01/2008 10:18 by user
> SAWMILLER,STEFFANIE LYNN on station 195. [Clerk entry]
> 08/01/2008 At the request of defendant attorney, case continued to
> 09/26/2008 09:00 in courtroom 1 for operator's license. [JUDGE KELLER]
> 08/01/2008 Commitment form printed on 08/01/2008 10:22 by user

> JOOST,JAMIE SUE on station 203. [Clerk entry]
> 08/01/2008 Defendant applied to MONTHLY Payment Plan. Scheduled amount
> of $50.00. Begin date of 09/05/2008. [Clerk entry]
> 08/25/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
> 09/19/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
> 09/26/2008 Defendant present with attorney PUBLIC DEFENDER, #9999.
> [JUDGE KELLER]
> 09/26/2008 Defendant placed on Active probation for 2 years. Begin
> Date of 09/26/2008, end date of 09/26/2010. Probation Conditions are: NG
> OF SIMILAR OFFENSE [JUDGE KELLER]
> 09/26/2008 Defendant's sentence modified. [JUDGE KELLER]
> 09/26/2008 Commitment form printed on 09/26/2008 10:57 by user
> WALLS,KIMBERLY H on station 3430. [Clerk entry]
> 09/26/2008 Defendant sentenced to 15 days in CORRECTIONS CENTER OF
> NORTHWEST OHIO. ELECTRONIC MONITORING. [JUDGE KELLER]
> 09/26/2008 Commitment form printed on 09/26/2008 11:30 by user
> WALLS,KIMBERLY H on station 3430. [Clerk entry]
> 09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
> KUCKUCK,RON on station 2503. [Clerk entry]
> 09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
> KUCKUCK,RON on station 2503. [Clerk entry]
> 09/26/2008 Commitment form printed on 09/26/2008 13:34 by user
> KUCKUCK,RON on station 2503. [Clerk entry]
> 10/22/2008 Payment Plan amount of $50 paid. [Clerk entry]
> 11/14/2008 Payment Plan amount of $50.00 paid. [Clerk entry]
> 12/12/2008 Fines and/or Costs paid in full. [Clerk entry]
>
N8wwm is well known for being a trouble maker, I'm sure you've heard him
and his old lady have the feds up their asscrack.

Fine upstanding armature operators, those two. :-D

--
http://NewsReader.Com/

1470. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 21:24:38 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <7189snFjjr78U1@mid.individual.net>
Source record: 17194
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Desk Rabbit" wrote ...
> Richard Crowley wrote:
>> "dave" wrote ...
>>> Buy a replacement antenna.
>>
>> Impractical. Almost every model has a custom-designed antenna
>> assembly.
>
> Rubbish.

I've never seen two alike. Ever. Not even once.

>> Even popular brands who may stock repair parts likely
>> charge more for them than the radio is likely worth.
>
> Several varieties of portable radio telescopic aerials are available from
> Maplins in the UK for less than 5 pounds. There are many other suppliers.

Certainly. And there are lots of them available over on my side of the
pond as well. But they are all "NOS, annonymous surplus". Nobody
knows which radios they fit, and I've never been lucky enough to find
one that fits any radio needing a new antenna. Perhaps you don't have
as many different radios in your world, or you are more lucky than me.

1471. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 21:27:27 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <718a21Fjo21uU1@mid.individual.net>
Source record: 17195
Cross-posted to: alt.radio.digital,sci.electronics.repair,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Michael Coslo" wrote ...
> Take that hammer, and maybe a nail, brace the swivel against a solid
> object, and tap the other side until the swivel stiffens up a bit.

Safer to use a BIG pair of pliers (with lots of leverage) and squeeze it
hard.
Hammers and electronics inside plastic are something I try to avoid. :-)

1472. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 21:28:57 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <49AEF299.1030703@jpl.nasa.gov>
Source record: 17197

Roy Lewallen wrote:
> Jim Lux wrote:
>>> breakdown? Is there some distinction to "full?")
>>
>> One often makes a distinction between a corona discharge which exists
>> as a steady state sort of thing and the streamers which precede a
>> "spark". Both are air breakdown phenomena, but qualitatively
>> different, and both are different from a low pressure discharge like
>> that found in a fluorescent lamp or neon bulb, or from phenomena like
>> St Elmo's Fire.
> > . . .
>
> Most interesting. I've always thought that St. Elmo's fire was a corona
> discharge, and a quick web search indicates that it's apparently a very
> widely held misconception. What's the difference?
>
> Roy Lewallen, W7EL
Indeed.. but St. Elmos fire has many characteristics not shared with corona.. (the extent of the glow, for one.. corona tends to be a very small sheath or longer leaders/fingers)

Most likely, it's glow discharge off small water droplets shed from the surface from which is charged. Basically the process is like an electrostatic sprayer.. small bumps in the liquid surface form from whatever cause, and the surface charge tends to make the droplets come off. They're charged to the maximum charge for the diameter, and as the droplet evaporates, it gets smaller, causing the glow discharge to shed charge. Or, a big droplet splits into smaller droplets because of electrostatic forces.

You can set up a nice demo in a dark lab with something like a cork wet with saltwater, a HV power supply, and some cookie sheets for electrodes.

1473. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 21:50:10 UTC
From: tnom@mucks.net
Message-ID: <9pttq4t3247j64bn2mkd826jk3klpb5t7e@4ax.com>
Source record: 17196
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

On Wed, 4 Mar 2009 11:22:44 -0000, "john zeiss"
<bluestar@mail.invalid> wrote:

>We have a small portable sony radio, and it has the usual type of
>extendable aerial (antenna) that you get on small japanese radios.
>
>It now refuses to maintain its position at an *angle*. Slowly but surely
>it drops down until it reaches the horizontal position.
>
>The small screw has been tightened up, but even as tight as we think we can
>do it without stripping the slots in the screw head, it is not enough to
>*clamp* the aerial to stop it dropping down.
>
>Basically the aerial at its base is a square shape with one small bronze
>coloured washer each side of it and that all sits in a ' U ' shaped base
>with it all being clamped with a small screw.
>
>Are there any tricks you know of, to get it to behave? Thanks.

If you can locate a spring of the appropriate diameter and strength
just slip it on and it should assist in your problem

1474. Re: In honor of N8WWM, we disclose...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 22:13:45 UTC
From: Steve <moparholic@hotmail.com>
Message-ID: <20090304171352.895$gm_-_@newsreader.com>
Source record: 17198
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

Steve <moparholic@hotmail.com> wrote:
> N8WWM DOUG ADAIR mopeyzakween@yahoo.com wrote:
> > the letter was sentI am involved in this situation because Mr. Trendel
> > victimized my girlfriend, Kathleen Lee.
> >
> Is that the same Kathleen Lee that got ran for federal tax evasion and
> then lost her CPA endorsement?
>
> You may be the weakest asshat I've ever confronted, doug. You hide behind
> crisco kathy's skirt. Recall when you wouldn't come outside of your
> toledo hud slum and raised the BB gun at me instead after you invited me
> over? Talking about how you were gonna 'put me face down in a hurting
> extreme'.
>
> Stick to your keyboard doug, oh and feed your children before they hate
> you.
>
> You're best at cowering at your keyboard while I'm at the Toledo fest
> again this year.
>
> 73
> Steve in Medina Ohio just got down.

--
http://NewsReader.Com/

1475. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 22:47:32 UTC
From: DNA <wattdoinow@nuffink.invalid>
Message-ID: <gon0e7qfa1@news.motzarella.org>
Source record: 17199
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,rec.audio.tech,rec.radio.amateur.antenna

Richard Crowley <rcrowley@xp7rt.net> wrote:
> "DNA" wrote...
>> philo wrote:
>>> If you are able to work carefully :
>>
>> That's an understatement before I even read the next bit of your
>> witches brew.
>>
>>> Remove the screw, then ...with a high-quality drill bit...
>>> drill a hole all the way through...just slightly larger than the
>>> original hole..
>>
>> You are kidding right? You know exactly how hard that would be to do.
>> There would be bearly enough meat on that as it is, let alone the
>> chance of the drill bit biting into what is there and breaking the
>> union - he'd have to resort to some metal to metal bonding glue and
>> some duct tape by the end of it all.
>>
>> What were you thinking?
>
> I've done exactly this repair myself (to more than one radio).
> This is a proven and practical repair technique.

> Dunno what "DNA" is thinking?

shhhh! I'm a huntin' wabbit.

1476. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-04 23:22:12 UTC
From: chuckcar <chuck@nil.car>
Message-ID: <Xns9BC4A7995CC80chucknilcar@127.0.0.1>
Source record: 17200
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

philo <philo@privacy.net> wrote in
news:3LqdnYiYBrIg5TPUnZ2dnUVZ_s3inZ2d@ntd.net:

> john zeiss wrote:
>> We have a small portable sony radio, and it has the usual type of
>> extendable aerial (antenna) that you get on small japanese radios.
>>
>> It now refuses to maintain its position at an *angle*. Slowly but
>> surely it drops down until it reaches the horizontal position.
>>

> If you are able to work carefully :
>
> Remove the screw, then ...with a high-quality drill bit...
> drill a hole all the way through...just slightly larger than the
> original hole..
>
> Then get a high-grade screw and nut...Use a Nylon Lock nut and you
> should then be able to tighten the antenna enough so that it will no
> longer tilt.

The problem doesn't seem to be the screw itself. As the OP said they can
tighten the screw as hard as they dare.

--
(setq (chuck nil) car(chuck))

1477. get eklp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 00:11:33 UTC
From: kb9rqz@yahoooo.com
Message-ID: <256uq4lp27l8dupnd04i4r49eml511aka7@4ax.com>
Source record: 17101
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.amateur.policy

On 04 Mar 2009 22:13:45 GMT, Steve <moparholic@hotmail.com> wrote:

>S
get a life

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1478. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 00:12:56 UTC
From: kb9rqz@yahoooo.com
Message-ID: <i76uq4t8i0akgmv3743l7md429fmlgqckl@4ax.com>
Source record: 17102
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.antenna,rec.radio.,rec.radio.cb

On 04 Mar 2009 20:13:32 GMT, Steve <moparholic@hotmail.com> wrote:

>"
get a life if yu have a beef sent to LS at the FCC

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1479. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 06:52:05 UTC
From: isw <isw@witzend.com>
Message-ID: <isw-107B01.22520504032009@[216.168.3.50]>
Source record: 17103
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,rec.audio.tech,rec.radio.amateur.antenna

In article <goloa7$bp4$1@news.motzarella.org>,
"john zeiss" <bluestar@mail.invalid> wrote:

> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.

The pivot may be "lubricated" with powdered metal, derived from the
material itself (probably plated brass). Take the joint apart, clean it
thoroughly with solvent and/or detergent plus scrubbing, *lubricate it*,
and reassemble.

Isaac

1480. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 07:43:30 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <RoLrl.87821$2h5.67089@newsfe11.iad>
Source record: 17104
Cross-posted to: rec.audio.tech,rec.radio.amateur.antenna

"john zeiss" <bluestar@mail.invalid> wrote in message
news:goloa7$bp4$1@news.motzarella.org...
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we
can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.
>
> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.

It used to be OK, right? What may have changed is that the mating pieces have been polished by repeated movement and they are now quite slick and smooth.

If so, you take them apart and rough up the mating surfaces. This restores what one of my witty friends called "stiction," a combination of "sticky" and "friction."

I have some dental picks that I might use for scratching the smooth surfaces to restore the lost stiction. A large sewing needle or the tip of a steak knife could work, too. Sandpaper wrapped around the tip of a nail file? An Emory board?

1481. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 09:28:40 UTC
From: Desk Rabbit <me@example.com>
Message-ID: <goo608$rt9$3@deskrabbit.motzarella.org>
Source record: 17105
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

```
Richard Crowley wrote:
> "Desk Rabbit" wrote ...
>> Richard Crowley wrote:
>>> "Desk Rabbit" wrote ...
>>>> You might as well replace the aerial with a new one. They are so cheap
>>>> and the time taken to fit a new one would be exactly the same as it
>>>> would be to make a lash up repair.
>>> That would be a practical response *IF* one could find an exact
>>> replacement. Alas, there are thousands of different varieties of these
>>> things, and they tend to be custom-designed for each model. Even
>>> if there were exact replacements in a warehouse somewhere in
>>> central Asia, finding one and getting it shipped to you would be
>>> far less pratical than just tossing the radio and buying a new one.
>> The OP said it was a Sony. Parts should be readily available for such a
>> major brand. That said, most of these aerials are pretty much the same
>> shape and size on even the cheapest brand.
>
> How many of these have you repaired yourself?
> Or are you guessing? I'm speaking from first-hand experience.
>
>
I've been a City & Guilds qualified Radio & Television engineer since
the early 1970's
```

1482. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 11:50:26 UTC
From: Bill Wright <insertmybusinessname@f2s.com>
Message-ID: <G72dncVEffIbITLUnZ2dnUVZ8giWnZ2d@pipex.net>
Source record: 17106
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"GregS" <zekfrivo@zekfrivolous.com> wrote in message
news:gomlbn$33j$1@usenet01.srv.cis.pitt.edu...
> In article <goloa7$bp4$1@news.motzarella.org>, "john zeiss"
> <bluestar@mail.invalid> wrote:
>
> Cyanoacrylate

Look, what he does in bed is nothing to do with you!

Bill

1483. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 12:27:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <FtPrl.14110$D32.7817@flpi146.ffdc.sbc.com>
Source record: 17107

Jim Lux wrote:
> Most likely, it's glow discharge off small water droplets shed from the
> surface from which is charged. Basically the process is like an
> electrostatic sprayer..

One very foggy night on Hwy 1 between Carmel and Santa Cruz,
I came up behind a mobile radio in operation. The glow
off the end of the antenna was bright orange. An oncoming
CHP officer stopped the vehicle for having a "red light"
visible from the front of the vehicle. When I left the
scene, the two were arguing whether it was really a "red
light" and whether the operator deserved a ticket or not.
I don't know what radio service was involved.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1484. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 14:43:15 UTC
From: Frank Erskine <frank.erskine@btinternet.com>
Message-ID: <06pvq41k6f328ok7iuomp0q576sea4lck5@4ax.com>
Source record: 17108
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

On Wed, 04 Mar 2009 19:38:33 GMT, zekfrivo@zekfrivolous.com (GregS)
wrote:

>In article <goloa7$bp4$1@news.motzarella.org>, "john zeiss" <bluestar@mail.invalid>
wrote:
>>We have a small portable sony radio, and it has the usual type of
>>extendable aerial (antenna) that you get on small japanese radios.
>>
>>It now refuses to maintain its position at an *angle*. Slowly but surely
>>it drops down until it reaches the horizontal position.
>>
>>The small screw has been tightened up, but even as tight as we think we can
>>do it without stripping the slots in the screw head, it is not enough to
>>*clamp* the aerial to stop it dropping down.
>>
>>Basically the aerial at its base is a square shape with one small bronze
>>coloured washer each side of it and that all sits in a ' U ' shaped base
>>with it all being clamped with a small screw.
>>
>>Are there any tricks you know of, to get it to behave? Thanks.
>>
>>
>
>Cyanoacrylate

Don't forget, with all this mention of glues and paper washers, that
you still want a decent electrical connection between the two bits :-)

--
Frank Erskine

1485. eBay: Heathkit Antenna tuner

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 14:59:55 UTC
From: Henry Kolesnik <kolesnik@nojunksbcglobal.net>
Message-ID: <bIRrl.14120$D32.10304@flpi146.ffdc.sbc.com>
Source record: 17109

http://search.ebay.com/_W0QQsassZwd5jfrQQfrppZ50QQfsopZ32QQfsooZ2QQrdZ0

1486. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 15:03:30 UTC
From: Keyser S�ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <goopk5$st9$1@news.motzarella.org>
Source record: 17110
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Frank Erskine <frank.erskine@btinternet.com> wrote in message
news:06pvq41k6f328ok7iuomp0q576sea4lck5@4ax.com:

> On Wed, 04 Mar 2009 19:38:33 GMT, zekfrivo@zekfrivolous.com (GregS)
> wrote:
>
>> In article <goloa7$bp4$1@news.motzarella.org>, "john zeiss"
>> <bluestar@mail.invalid> wrote:
>>> We have a small portable sony radio, and it has the usual type of
>>> extendable aerial (antenna) that you get on small japanese radios.
>>>
>>> It now refuses to maintain its position at an *angle*. Slowly but
>>> surely it drops down until it reaches the horizontal position.
>>>
>>> The small screw has been tightened up, but even as tight as we
>>> think we can do it without stripping the slots in the screw head,
>>> it is not enough to *clamp* the aerial to stop it dropping down.
>>>
>>> Basically the aerial at its base is a square shape with one small
>>> bronze coloured washer each side of it and that all sits in a ' U '
>>> shaped base with it all being clamped with a small screw.
>>>
>>> Are there any tricks you know of, to get it to behave?
>>> Thanks.
>>>
>>>
>>
>> Cyanoacrylate
>
> Don't forget, with all this mention of glues and paper washers, that
> you still want a decent electrical connection between the two bits :-)

Horses have bits, people have pieces ;-)

--
In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1487. Re: 20 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 16:11:33 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gootnoadf1@news.service.uci.edu>
Source record: 17111

Cecil Moore wrote:

> One very foggy night on Hwy 1 between Carmel and Santa Cruz,
> I came up behind a mobile radio in operation. The glow
> off the end of the antenna was bright orange. An oncoming
> CHP officer stopped the vehicle for having a "red light"
> visible from the front of the vehicle. When I left the
> scene, the two were arguing whether it was really a "red
> light" and whether the operator deserved a ticket or not.
> I don't know what radio service was involved.

I've read that W6AM used to drive the route between Long Beach and San Francisco. His mobile station is legendary around here. The operator was no doubt explaining to the officer that a glow discharge in air is more of a salmon than a red.

Did the officer look like Broderick Crawford by any chance? :-)

I couldn't help but fix the subject line.

ac6xg

1488. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 18:42:05 UTC
From: Richard Crowley <rcrowley@xp7rt.net>
Message-ID: <71aknuFjp394U1@mid.individual.net>
Source record: 17112
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Desk Rabbit" wrote ...
> Richard Crowley wrote:
>> How many of these have you repaired yourself?
>> Or are you guessing? I'm speaking from first-hand experience.
> I've been a City & Guilds qualified Radio & Television engineer since the
> early 1970's

And I've been repairing and constructing electronic equipment for at
least 10 years more than that. Repeating: "Perhaps you don't have as
many different radios in your world, or you are more lucky than me."
In either case, you seem to be in a better position to match replacemnt
antennas with consumer equipment. I'm happy for your success.

1489. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 19:51:12 UTC
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Message-ID: <a4idnQ0tbp6tsC3UnZ2dnUVZ_oWWnZ2d@earthlink.com>
Source record: 17113
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Frank Erskine wrote:
>
> Don't forget, with all this mention of glues and paper washers, that
> you still want a decent electrical connection between the two bits :-)

Two bits is a Quarter.

--
http://improve-usenet.org/index.html

Goggle Groups, and Web TV users must request to be white listed, or I
will not see your messages.

If you have broadband, your ISP may have a NNTP news server included in
your account: http://www.usenettools.net/ISP.htm

1490. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 19:52:44 UTC
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Message-ID: <a4idnQwtbp4RsC3UnZ2dnUVZ_oULAAAA@earthlink.com>
Source record: 17114
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Keyser Sï¿½ze" wrote:
>
> Frank Erskine wrote:
> >
> > Don't forget, with all this mention of glues and paper washers, that
> > you still want a decent electrical connection between the two bits :-)
>
> Horses have bits, people have pieces ;-)

Not true. Lots of people have been bit. Some were even bit by
horses.

--
http://improve-usenet.org/index.html

Goggle Groups, and Web TV users must request to be white listed, or I
will not see your messages.

If you have broadband, your ISP may have a NNTP news server included in
your account: http://www.usenettools.net/ISP.htm

1491. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 20:57:02 UTC
From: Keyser S�ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gopeb1$ka2$2@news.motzarella.org>
Source record: 17115
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Michael A. Terrell <mike.terrell@earthlink.net> wrote in message
news:a4idnQwtbp4RsC3UnZ2dnUVZ_oULAAAA@earthlink.com:

> "Keyser S�ze" wrote:
>>
>> Frank Erskine wrote:
>>>
>>> Don't forget, with all this mention of glues and paper washers, that
>>> you still want a decent electrical connection between the two bits
>>> :-)
>>
>> Horses have bits, people have pieces ;-)
>
>
> Not true. Lots of people have been bit. Some were even bit by
> horses.

I was pieced [sic] by a rat once.

--
In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1492. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 22:09:38 UTC
From: "Michael A. Terrell" <mike.terrell@earthlink.net>
Message-ID: <4pCdnQHuxow_0C3UnZ2dnUVZ_vWdnZ2d@earthlink.com>
Source record: 17116
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Keyser Sï¿½ze" wrote:
>
> Michael A. Terrell <mike.terrell@earthlink.net> wrote in message
> news:a4idnQwtbp4RsC3UnZ2dnUVZ_oULAAAA@earthlink.com:
>
> > "Keyser Sï¿½ze" wrote:
> >>
> >> Frank Erskine wrote:
> >>>
> >>> Don't forget, with all this mention of glues and paper washers, that
> >>> you still want a decent electrical connection between the two bits
> >>> :-)
> >>
> >> Horses have bits, people have pieces ;-)
> >>>
> >>>
> > Not true. Lots of people have been bit. Some were even bit by
> > horses.
>
> I was pieced [sic] by a rat once.

Did it die?

--
http://improve-usenet.org/index.html

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will not see your messages.

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your account: http://www.usenettools.net/ISP.htm

1493. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 22:21:04 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gopj8l$l8t$1@news.motzarella.org>
Source record: 17117
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Michael A. Terrell <mike.terrell@earthlink.net> wrote in message
news:4pCdnQHuxow_0C3UnZ2dnUVZ_vWdnZ2d@earthlink.com:

> "Keyser S&#65533;ze" wrote:
>>
>> Michael A. Terrell <mike.terrell@earthlink.net> wrote in message
>> news:a4idnQwtbp4RsC3UnZ2dnUVZ_oULAAAA@earthlink.com:
>>
>>> "Keyser S&#65533;ze" wrote:
>>>>
>>>> Frank Erskine wrote:
>>>>>
>>>>> Don't forget, with all this mention of glues and paper washers,
>>>>> that you still want a decent electrical connection between the
>>>>> two bits :-)
>>>>
>>>> Horses have bits, people have pieces ;-)
>>>
>>>
>>> Not true. Lots of people have been bit. Some were even bit by
>>> horses.
>>
>> I was pieced [sic] by a rat once.
>
>
> Did it die?

I think it used whitworth ;->

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1494. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 23:05:40 UTC
From: Kadaitcha Man <invalid@invalid.invalid>
Message-ID: <5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia>
Source record: 17118
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Keyser S�ze, ye freakish work for bread, I had rather be married to a
deaths head with a bone in his mouth, ye gnarled:

> I think

BWAHAhAHAHAHAHAHAH!

--
alt.usenet.kooks
"We are arrant knaves all, believe none of us."
Hamlet, Act 3, Scene 1 [129]

Hammer of Thor: February 2007.
Pierre Salinger Memorial Hook, Line & Sinker:
September 2005, April 2006, January 2007, August 2008.
Barbara Woodhouse Memorial Dog Whistle, Official owner
and trainer of Bucky Breeder, August 2008.
Official Member: Cabal Obsidian Order COOSN-124-07-06660
Official Overseer of Kooks & Trolls in 24hoursupport.helpdesk

Member of:
Usenet Ruiner List
Top Assholes on the Net List
Most hated usenetizens of all time List
Cog in the AUK Hate Machine List

Find me on Google Maps: 24�39'47.13"S, 134�4'20.18"E

Join me for dinner. I'm cooking purulent horse flies next to putrescent
cormorant muscle, dished up in a turbid deep dish overflowing with
medium to well done parsnip, lifeless morsels of lobster, eel and
hodgepodge of calamari sauce, a side of sausage and a glass of sputum.

1495. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-05 23:35:04 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gopnjdia1@reader.motzarella.org>
Source record: 17119
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man <invalid@invalid.invalid> wrote in message
news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:

> Keyser S&#65533;ze, ye freakish work for bread, I had rather be married to a
> deaths head with a bone in his mouth, ye gnarled:
>
>> I think
>
> BWAHAhAHAHAHAHAHAH!

:)

Salve amicus.

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1496. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 01:33:40 UTC
From: Kadaitcha Man <invalid@invalid.invalid>
Message-ID: <btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary>
Source record: 17120
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Keyser S�ze, ye legless gallfly, thy will is most malignant, ye sneered:

> Kadaitcha Man <invalid@invalid.invalid> wrote in message
> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>
>> Keyser S�ze, ye freakish work for bread, I had rather be married to a
>> deaths head with a bone in his mouth, ye gnarled:
>>
>>> I think
>>
>> BWAHAhAHAHAHAHAHAH!
>
> :)
>
> Salve amicus.

Crawler.

--
alt.usenet.kooks
"We are arrant knaves all, believe none of us."
Hamlet, Act 3, Scene 1 [129]

Hammer of Thor: February 2007.
Pierre Salinger Memorial Hook, Line & Sinker:
September 2005, April 2006, January 2007, August 2008.
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Most hated usenetizens of all time List
Cog in the AUK Hate Machine List

Find me on Google Maps: 24�39'47.13"S, 134�4'20.18"E

Join me for dinner. I'm cooking horrific live rat embryos and tendon
conserve with fecal mole pancreas and calf muscle marinade, simmered in
a wriggling double boiler containing mangy whole spinach, endive and nut
in salt water, a side of zebra spleen and a gallon of whale milk.

1497. Re: VHF Handbook

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 03:17:35 UTC
From: Alain <opalockamishabob@yahoo.com>
Message-ID: <23e1ebe2-fc4c-45d1-b0a5-212d135308f9@v18g2000pro.googlegroups.com>
Source record: 17121

On Mar 2, 5:50 pm, "Harry H" <harryha...@hotmail.com> wrote:
> I am trying to source a readable copy of Orr & Johnsons "VHF Handbook".
>
> I have found a copy, but the "heavy wear" description is just that, some
> pages are unreadable.
>
> If anyone can help me, either with a reasonable hard copy or a PDF file or a
> copy on a CD, I would be very grateful.
>
> 73
> HH

Harry,

There is a book entitled, "All about VHF Amateur Radio" by William I.
Orr available for around $4 from a used bookseller.

Is that the exact title ["VHF Handbook"] that you're looking for?

Alain

1498. Re: VHF Handbook

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 05:10:41 UTC
From: Henry <wa0goz@arrl.net>
Message-ID: <goqb8a$7j0$1@news.motzarella.org>
Source record: 17122

Alain wrote:

> On Mar 2, 5:50 pm, "Harry H" <harryha...@hotmail.com> wrote:
>
>>I am trying to source a readable copy of Orr & Johnsons "VHF Handbook".
>>
>>I have found a copy, but the "heavy wear" description is just that, some
>>pages are unreadable.
>>
>>If anyone can help me, either with a reasonable hard copy or a PDF file or a
>>copy on a CD, I would be very grateful.
>>
>>73
>>HH

I have a copy of Orr and Johnson's "VHF Handbook" I'll sell you. Let
me know off line if you're interested.

Henry WA0GOZ

1499. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 07:14:08 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <goqig4trn1@news.motzarella.org>
Source record: 17123
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man <invalid@invalid.invalid> wrote in message
news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:

> Keyser S&#65533;ze, ye legless gallfly, thy will is most malignant, ye
> sneered:
>
>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>
>>> Keyser S&#65533;ze, ye freakish work for bread, I had rather be married to
>>> a deaths head with a bone in his mouth, ye gnarled:
>>>
>>>> I think
>>>
>>> BWAHAhAHAHAHAHAHAH!
>>
>> :)
>>
>> Salve amicus.
>
> Crawler.

Yes... bottom crawler to you.

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1500. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 09:22:04 UTC
From: Desk Rabbit <me@example.com>
Message-ID: <goqpvq$jt7$1@deskrabbit.motzarella.org>
Source record: 17124
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

```
Richard Crowley wrote:
> "Desk Rabbit" wrote ...
>> Richard Crowley wrote:
>>> How many of these have you repaired yourself?
>>> Or are you guessing? I'm speaking from first-hand experience.
>> I've been a City & Guilds qualified Radio & Television engineer since the
>> early 1970's
>
> And I've been repairing and constructing electronic equipment for at
> least 10 years more than that. Repeating: "Perhaps you don't have as
> many different radios in your world, or you are more lucky than me."
> In either case, you seem to be in a better position to match replacemnt
> antennas with consumer equipment. I'm happy for your success.
>
>
<shrug>
```

1501. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 09:25:44 UTC
From: Kadaitcha Man <invalid@invalid.invalid>
Message-ID: <uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei>
Source record: 17125
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Keyser S�ze, ye grease-covered scurvy jack-dog priest, should all
despair that hath revolted wives, the tenth of mankind would hang
themselves, ye blubbered:

> Kadaitcha Man <invalid@invalid.invalid> wrote in message
> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>
>> Keyser S�ze, ye legless gallfly, thy will is most malignant, ye
>> sneered:
>>
>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>
>>>> Keyser S�ze, ye freakish work for bread, I had rather be married to
>>>> a deaths head with a bone in his mouth, ye gnarled:
>>>>
>>>>> I think
>>>>
>>>> BWAHAhAHAHAHAHAHAH!
>>>
>>> :)
>>>
>>> Salve amicus.
>>
>> Crawler.
>
> Yes... bottom crawler to you.

pmsl

--
alt.usenet.kooks
"We are arrant knaves all, believe none of us."
Hamlet, Act 3, Scene 1 [129]

Hammer of Thor: February 2007.
Pierre Salinger Memorial Hook, Line & Sinker:
September 2005, April 2006, January 2007, August 2008.
Barbara Woodhouse Memorial Dog Whistle, Official owner
and trainer of Bucky Breeder, August 2008.
Official Member: Cabal Obsidian Order COOSN-124-07-06660
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Member of:
Usenet Ruiner List
Top Assholes on the Net List
Most hated usenetizens of all time List
Cog in the AUK Hate Machine List

Find me on Google Maps: 24°39'47.13"S, 134°4'20.18"E

Join me for dinner. I'm cooking defective cat liver garnished with foul-stinking cow carbuncle and elk intestines marinade, arranged in a splashing tureen chock full of chilled specks of endive and morsels of cherry tomato in salt water, a side of foetal capuchin monkey skin and a tumbler of coagulated white blood cells.

1502. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 11:12:08 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gor0edafk1@news.motzarella.org>
Source record: 17126
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man <invalid@invalid.invalid> wrote in message
news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:

> Keyser S&#65533;ze, ye grease-covered scurvy jack-dog priest, should all
> despair that hath revolted wives, the tenth of mankind would hang
> themselves, ye blubbered:
>
>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>>
>>> Keyser S&#65533;ze, ye legless gallfly, thy will is most malignant, ye
>>> sneered:
>>>
>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>
>>>>> Keyser S&#65533;ze, ye freakish work for bread, I had rather be married
>>>>> to a deaths head with a bone in his mouth, ye gnarled:
>>>>>
>>>>>> I think
>>>>>
>>>>> BWAHAhAHAHAHAHAHAH!
>>>>
>>>> :)
>>>>
>>>> Salve amicus.
>>>
>>> Crawler.
>>
>> Yes... bottom crawler to you.
>
> pmsl

So, how was it, mate? Good?

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1503. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 12:48:50 UTC
From: Kadaitcha Man <invalid@invalid.invalid>
Message-ID: <sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela>
Source record: 17127
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Keyser S�ze, ye rotting feader, ye same purpose clanger, ye sly devil,
ye broker that still breaks the pate of faith, ye daily break-vow, ye
dissented:

> Kadaitcha Man <invalid@invalid.invalid> wrote in message
> news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:
>
>> Keyser S�ze, ye grease-covered scurvy jack-dog priest, should all
>> despair that hath revolted wives, the tenth of mankind would hang
>> themselves, ye blubbered:
>>
>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>>>
>>>> Keyser S�ze, ye legless gallfly, thy will is most malignant, ye
>>>> sneered:
>>>>
>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>>
>>>>>> Keyser S�ze, ye freakish work for bread, I had rather be married
>>>>>> to a deaths head with a bone in his mouth, ye gnarled:
>>>>>>
>>>>>>> I think
>>>>>>
>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>
>>>>> :)
>>>>>
>>>>> Salve amicus.
>>>>
>>>> Crawler.
>>>
>>> Yes... bottom crawler to you.
>>
>> pmsl
>
> So, how was it, mate? Good?

What, the bottom crawling?

--
alt.usenet.kooks

"We are arrant knaves all, believe none of us."
Hamlet, Act 3, Scene 1 [129]

Hammer of Thor: February 2007.
Pierre Salinger Memorial Hook, Line & Sinker:
September 2005, April 2006, January 2007, August 2008.
Barbara Woodhouse Memorial Dog Whistle, Official owner
and trainer of Bucky Breeder, August 2008.
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Member of:
Usenet Ruiner List
Top Assholes on the Net List
Most hated usenetizens of all time List
Cog in the AUK Hate Machine List

Find me on Google Maps: 24°39'47.13"S, 134°4'20.18"E

Join me for dinner. I'm cooking polluted dead animals and garlic
preserve accentuated by synthetic diseased body parts and newt
excrescence conserve, dished up in a randomly twitching pot chock full
of cheap pieces of cashew, scallion and scallion in butter, a side of
stinkbug uterus and a goblet of tongue juice.

1504. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 13:25:55 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gor897ive1@news.motzarella.org>
Source record: 17128
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man <invalid@invalid.invalid> wrote in message
news:sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela:

> Keyser S&#65533;ze, ye rotting feader, ye same purpose clanger, ye sly devil,
> ye broker that still breaks the pate of faith, ye daily break-vow, ye
> dissented:
>
>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>> news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:
>>
>>> Keyser S&#65533;ze, ye grease-covered scurvy jack-dog priest, should all
>>> despair that hath revolted wives, the tenth of mankind would hang
>>> themselves, ye blubbered:
>>>
>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>>>>
>>>>> Keyser S&#65533;ze, ye legless gallfly, thy will is most malignant, ye
>>>>> sneered:
>>>>>
>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>>>
>>>>>>> Keyser S&#65533;ze, ye freakish work for bread, I had rather be married
>>>>>>> to a deaths head with a bone in his mouth, ye gnarled:
>>>>>>>
>>>>>>>> I think
>>>>>>>
>>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>>
>>>>>> :)
>>>>>>
>>>>>> Salve amicus.
>>>>>
>>>>> Crawler.
>>>>
>>>> Yes... bottom crawler to you.
>>>
>>> pmsl
>>
>> So, how was it, mate? Good?
>
> What, the bottom crawling?

Yeah, I wanna know what marks out of fuckin' 10 you're gonna give me for the bottom crawlin'!

<fuck me dead>

No, the fuckin' jaunt?!

:-|

<FBSG>

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1505. Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 16:29:32 UTC
From: Daniel <janzon@gmail.com>
Message-ID: <0ba6e6da-f856-4e7b-a272-5efb3ea68301@p20g2000yqi.googlegroups.com>
Source record: 17129

Hello,

Let's say I have a transmitter with output power T dBm using an antenna with A dBi. Then we have a receiver, with gain B on the antenna. How does this affect the received signal strength? I guess the field strength at a point (in the transmitter antenna lobe) would be something like T+A-PL where PL is the path loss at the point.

But what does the receiver get when it uses an antenna? Is there a notion of reciever gain of an antenna? In my mind I can't see that anything else than antenna area would be relevant. I mean, a reciever antenna shouldn't be able to suck in radio waves from the sides... Can anyone sort this out?

Regards,
Daniel

1506. annealed coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 16:47:57 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <c8da6289-efab-42de-a4d7-1b32958856e0@y13g2000yqn.googlegroups.com>
Source record: 17130

I have heard there is a process where coax cable is baked in an oven to lessen the effects of temperature change of the cable on phase shift. I havent been able to find any information on this process. Direction to any information on the subject would be greatly appreciated.

Jimmie

1507. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 17:02:26 UTC
From: Ken Slimmer <ken@wa0sbu.com>
Message-ID: <kKSdnfmAhJy_yizUnZ2dnUVZ_rLinZ2d@giganews.com>
Source record: 17131

On Thu, 05 Mar 2009 08:11:33 -0800, Jim Kelley wrote:

> Cecil Moore wrote:
>
>> One very foggy night on Hwy 1 between Carmel and Santa Cruz, I came up
>> behind a mobile radio in operation. The glow off the end of the antenna
>> was bright orange. An oncoming CHP officer stopped the vehicle for
>> having a "red light" visible from the front of the vehicle. When I left
>> the scene, the two were arguing whether it was really a "red light" and
>> whether the operator deserved a ticket or not. I don't know what radio
>> service was involved.
>
> I've read that W6AM used to drive the route between Long Beach and San
> Francisco. His mobile station is legendary around here. The operator
> was no doubt explaining to the officer that a glow discharge in air is
> more of a salmon than a red.
>
> Did the officer look like Broderick Crawford by any chance? :-)
>
> I couldn't help but fix the subject line.
>
> ac6xg

Rumor has it that W6AM had a 1 KW Swan amp in his trunk. Plus some
really big Rhombics.

--
73's
Ken Slimmer, WA0SBU

1508. Re: 40 meter groundplane questions

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 18:09:40 UTC
From: mat_62@netcommander.com
Message-ID: <8b049086-f91a-466f-a42d-942809e1962e@e18g2000yqo.googlegroups.com>
Source record: 17132

The home is made of wood with a shingled roof just like a stick house.
it's not a mobile home in the sense of one composed entirely of metal.
I never thought of connecting the metal I-beams underneath the floor
to the ground radial system, might be worth trying.
Just to clarify something. I misquoted what I had read about
insulated ground radials. Apparently what was written was that you
should not use insulated ground radials as part of lightning
protection system. That statement actually makes a little more sense.
I apologize for my mistake.
I guess I'm just going to start stringing out radials till I tire of
it and then quit. Maybe after a few days when I feel like it again,
I'll run a few more and so on and so on until I get to where I think
the antenna is performing well enough.
I do know enough about verticals and ground systems to know that at
some point I will reach the point of diminishing returns. Whether that
point is sixteen, thirty two or forty eight or some other number of
radials remains to be seen. I'll probably start with about sixteen and
see what kind of results I get with that.
I appreciate everyone's advice and input.
Tnx and 73,
Michael, W4HIJ

1509. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 18:44:55 UTC
From: Fred McKenzie <fmmck@aol.com>
Message-ID: <fmmck-27F37A.13445506032009@nntp.aioe.org>
Source record: 17133

In article
<0ba6e6da-f856-4e7b-a272-5efb3ea68301@p20g2000yqi.googlegroups.com>,
Daniel <janzon@gmail.com> wrote:

> But what does the receiver get when it uses an antenna? Is there a
> notion of reciever gain of an antenna?

Daniel-

I think the easiest way to see this is by looking at the transmitted power having a value at the receive antenna, of so many Watts per square meter power density. The receive antenna presents an "effective" area of so many square meters. Its value depends on things like frequency, antenna size, gain and direction.

Multiply transmitter power density at the receive antenna, by the receive antenna's effective area to get received power.

But how do you determine your antenna's effective area? That isn't so easy! I understand a half wave dipole has an effective area of about one half wavelength times one quarter wavelength in the direction of the antenna's major lobes. On 40 Meters, that would be 200 square meters.

Once all the factors are known, you can reduce the calculations to Decibels.

Fred
K4DII

1510. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 19:23:57 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BC74119358F5nonenowhere@61.9.191.5>
Source record: 17134

Daniel <janzon@gmail.com> wrote in news:0ba6e6da-f856-4e7b-a272-5efb3ea68301@p20g2000yqi.googlegroups.com:

> Hello,
>
> Let's say I have a transmitter with output power T dBm using an
> antenna with A dBi. Then we have a receiver, with gain B on the
> antenna. How does this affect the received signal strength? I guess
> the field strength at a point (in the transmitter antenna lobe) would
> be something like T+A-PL where PL is the path loss at the point.
>

Daniel,

Look up the Friis Transmission equation on Google.

Here is a little application for solving the Friis Transmission equation: http://www.vk1od.net/software/fsc/ .

Another concept that is important is reciprocity, but understand that limit of the scope of the concept (eg it doesn't capture differences in impedance mismatch from tx to rx).

Owen

> But what does the receiver get when it uses an antenna? Is there a
> notion of reciever gain of an antenna? In my mind I can't see that
> anything else than antenna area would be relevant. I mean, a reciever
> antenna shouldn't be able to suck in radio waves from the sides...
> Can anyone sort this out?
>
> Regards,
> Daniel

1511. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 19:31:58 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <dsydncTZZbqz5yzUnZ2dnUVZ_tTinZ2d@posted.easystreetonline>
Source record: 17135

Daniel wrote:
> Hello,
>
> Let's say I have a transmitter with output power T dBm using an
> antenna with A dBi. Then we have a receiver, with gain B on the
> antenna. How does this affect the received signal strength? I guess
> the field strength at a point (in the transmitter antenna lobe) would
> be something like T+A-PL where PL is the path loss at the point.

Yes, that's correct. But remember that what counts is the signal-to-noise ratio at the receiver. At VHF and above, the majority of the noise comes from the receiver, but at HF and below, from the atmosphere. So at HF and below the receive antenna gain magnifies both the signal and noise in the same proportion and doesn't help the S/N ratio. The transmitter antenna gain, however, does, because it magnifies only the signal and not the noise.

> But what does the receiver get when it uses an antenna? Is there a
> notion of reciever gain of an antenna?

Yes. It's exactly the same as the gain the same antenna has when used for transmitting. This principle is called "reciprocity".

> In my mind I can't see that
> anything else than antenna area would be relevant. I mean, a reciever
> antenna shouldn't be able to suck in radio waves from the sides...
> Can anyone sort this out?

Sure, it's been sorted out for more than a hundred years. Antennas do indeed suck radio waves in from the sides, unless you're talking about antennas with dimensions of many wavelengths on each side. Waves aren't little tiny things like BBs, but big things that spread out over a large amount of space and interact with antennas in complex ways. Passing waves induce currents in an antenna which then creates waves of its own that interact with the original field. Ordinary intuition doesn't work well for thinking about this, unless you took physics in high school and got to play with a ripple tank. Lacking that, spend some time at a harbor and see how water waves interact with pilings and docks. Of course, there's always the option of reading some books on antenna theory.

Don't get hung up on an antenna's physical area, unless you're dealing with antennas that are many wavelengths across, like parabolic reflectors and horn antennas. An infinitesimally short, lossless dipole has nearly the same aperture ("effective area" or "capture area") as a half wavelength dipole. A fair size loop is about the same as a dipole. Making a dipole's wire diameter several times larger makes no

significant difference to its aperture. Aperture or "capture area" is simply an alternate way of stating gain -- if you know one you know the other.

Roy Lewallen, W7EL

1512. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 19:38:34 UTC
From: Daniel <janzon@gmail.com>
Message-ID: <70711710-cbea-45df-9b70-8a64b168272b@z1g2000yqn.googlegroups.com>
Source record: 17136

On 6 Mar, 19:44, Fred McKenzie <fm...@aol.com> wrote:
> I think the easiest way to see this is by looking at the transmitted
> power having a value at the receive antenna, of so many Watts per square
> meter power density. The receive antenna presents an "effective" area
> of so many square meters. Its value depends on things like frequency,
> antenna size, gain and direction.

By using the word "effective", do you suggest that the word area
should not be interpreted in it's literal sense of the size-property
of a surface in physical space? So it is not simply a matter of taking
the product of a height and a width (of a e.g. a patch antenna)? I
understand that the direction is a factor to deal with; that's
obvious. I also understand there might be losses if the frequency is
different than what the antenna designer had in mind. But I don't
understand how the gain makes any difference when receiving. Here I
use gain in the sense of transmission gain (radiation intensity in the
lobe compared to an ideal isotropic antenna).

> Multiply transmitter power density at the receive antenna, by the
> receive antenna's effective area to get received power.

I would totally agree unless I was confused about the notion of
"effective area". I guess my mental picture of a real physical surface
exposed to incident radiation is naïve and stops me from
understanding, but I simply don't know what image to replace it with.

> But how do you determine your antenna's effective area? That isn't so
> easy! I understand a half wave dipole has an effective area of about
> one half wavelength times one quarter wavelength in the direction of the
> antenna's major lobes.

I assume by definition the height of a half wave dipole antenna is one
half wavelength. But what about the width? Why one quarter wavelength?

>On 40 Meters, that would be 200 square meters.

This I don't understand. Again, it seems to me to be something that
would only be meaningful when transmitting, not when receiving.

> Once all the factors are known, you can reduce the calculations to
> Decibels.

Yeah, I look forward to that day!! :) Thanks for your reply,

Regards,
Daniel

1513. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 19:59:18 UTC
From: Daniel <janzon@gmail.com>
Message-ID: <688a52ff-0137-48e7-93ea-a59194351aad@y13g2000yqn.googlegroups.com>
Source record: 17137

On 6 Mar, 20:31, Roy Lewallen <w...@eznec.com> wrote:
> > But what does the receiver get when it uses an antenna? Is there a
> > notion of reciever gain of an antenna?
>
> Yes. It's exactly the same as the gain the same antenna has when used
> for transmitting. This principle is called "reciprocity".

Ok, at least that makes the definition of receiver gain clear!

> > In my mind I can't see that
> > anything else than antenna area would be relevant. I mean, a reciever
> > antenna shouldn't be able to suck in radio waves from the sides...
> > Can anyone sort this out?
>
> Sure, it's been sorted out for more than a hundred years. Antennas do
> indeed suck radio waves in from the sides, unless you're talking about
> antennas with dimensions of many wavelengths on each side. Waves aren't
> little tiny things like BBs, but big things that spread out over a large
> amount of space and interact with antennas in complex ways. Passing
> waves induce currents in an antenna which then creates waves of its own
> that interact with the original field. Ordinary intuition doesn't work
> well for thinking about this, unless you took physics in high school and
> got to play with a ripple tank. Lacking that, spend some time at a
> harbor and see how water waves interact with pilings and docks. Of
> course, there's always the option of reading some books on antenna theory.

I *have* done one experiment as a kid: I placed a dipole permanent
magnet under a piece of paper and poured iron filings on the paper to
see the pattern created when the filings arranged itself in the
magnetic field. So I kinda have some understanding how field phenomena
can behave. I just didn't connect it to antennas. Is it more correct
to say that a field is established between the two antennas rather
than saying that something is transmitted in a direction from one end
to the other? (Of course on another level, *information* is
transmitted in a direction, but I am referring to the level of the
electromagnetic field).

> Don't get hung up on an antenna's physical area, unless you're dealing
> with antennas that are many wavelengths across, like parabolic
> reflectors and horn antennas. An infinitesimally short, lossless dipole
> has nearly the same aperture ("effective area" or "capture area") as a
> half wavelength dipole.

Ok, good to know!

> A fair size loop is about the same as a dipole.
> Making a dipole's wire diameter several times larger makes no
> significant difference to its aperture. Aperture or "capture area" is
> simply an alternate way of stating gain -- if you know one you know the
> other.

As far as I can understand, the notion of "effective area" is quite artificial and only meaningful if one wants to fit a complex wave phenomena into a form where one can think of it in the naive way I have expressed in my earlier posts... Anyways, thanks for a great reply!

Regards,
Daniel

1514. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 23:02:23 UTC
From: Kadaitcha Man <invalid@invalid.invalid>
Message-ID: <gppxxr$o06$r@rec.humour.funny.hairy-call-girl.co.bulgaria>
Source record: 17138
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Keyser S�ze, ye idle drab, what hempen homespun have we swaggering here,
ye kvetched:

> Kadaitcha Man <invalid@invalid.invalid> wrote in message
> news:sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela:
>
>> Keyser S�ze, ye rotting feader, ye same purpose clanger, ye sly
>> devil, ye broker that still breaks the pate of faith, ye daily
>> break-vow, ye dissented:
>>
>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>> news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:
>>>
>>>> Keyser S�ze, ye grease-covered scurvy jack-dog priest, should all
>>>> despair that hath revolted wives, the tenth of mankind would hang
>>>> themselves, ye blubbered:
>>>>
>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>>>>>
>>>>>> Keyser S�ze, ye legless gallfly, thy will is most malignant, ye
>>>>>> sneered:
>>>>>>
>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>>>>
>>>>>>>> Keyser S�ze, ye freakish work for bread, I had rather be
>>>>>>>> married to a deaths head with a bone in his mouth, ye gnarled:
>>>>>>>>
>>>>>>>>> I think
>>>>>>>>
>>>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>>>
>>>>>>> :)
>>>>>>>
>>>>>>> Salve amicus.
>>>>>>
>>>>>> Crawler.
>>>>>
>>>>> Yes... bottom crawler to you.
>>>>
>>>> pmsl
>>>

>>> So, how was it, mate? Good?
>>
>> What, the bottom crawling?
>
> Yeah, I wanna know what marks out of fuckin' 10 you're gonna give me
> for the bottom crawlin'!

About this:

>>>>> Yes... bottom crawler to you.

Is that like Prince Philip, bottom crawler to Her Majesty?

> <fuck me dead>

Sorry, I don't bottom crawl.

> No, the fuckin' jaunt?!

It was ok. Ten hours drive each way.

> :-|
>
>
> <FBSG>

--
alt.usenet.kooks
"We are arrant knaves all, believe none of us."
Hamlet, Act 3, Scene 1 [129]

Hammer of Thor: February 2007.
Pierre Salinger Memorial Hook, Line & Sinker:
September 2005, April 2006, January 2007, August 2008.
Barbara Woodhouse Memorial Dog Whistle, Official owner
and trainer of Bucky Breeder, August 2008.
Official Member: Cabal Obsidian Order COOSN-124-07-06660
Official Overseer of Kooks & Trolls in 24hoursupport.helpdesk

Member of:
Usenet Ruiner List
Top Assholes on the Net List
Most hated usenetizens of all time List
Cog in the AUK Hate Machine List

Find me on Google Maps: 24°39'47.13"S, 134°4'20.18"E

Join me for dinner. I'm cooking obnoxious head louse liver with cabbage
compote accentuated with ugly skin inside dinged manatee abscess and
beaver innards garnish, served in a cooling saucepan overflowing with
big pieces of octopus and unidentified floaty bits in offensive compost
gravy, a side of seal mammary gland and a pitcher of pond scum.

1515. Re: @0 Meter Vertical Collinear

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 23:03:56 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gosa8hbkv1@news.service.uci.edu>
Source record: 17139

Ken Slimmer wrote:

> Rumor has it that W6AM had a 1 KW Swan amp in his trunk. Plus some
> really big Rhombics.

I wholeheartedly recommend reading his biography "Don C. Wallace:
Amateur Radio's Pioneer" by Jan David Perkins.

73, ac6xg

1516. Re: annealed coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 23:05:58 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <49B1AC56.4060406@jpl.nasa.gov>
Source record: 17141

JIMMIE wrote:
> I have heard there is a process where coax cable is baked in an oven
> to lessen the effects of temperature change of the cable on phase
> shift. I havent been able to find any information on this process.
> Direction to any information on the subject would be greatly
> appreciated.
>
> Jimmie
mostly it's done by empirical methods..

The idea is to relieve internal stresses by several temperature cycles, reducing at least one source of phase change.

In reality, what you want is "consistent and repeatable phase change vs temperature without hysteresis"... hysteresis or randomness is usually due to mechanical effects (stick/slip, etc.), so temperature cycling fixes it.

google for phase-stable coaxial cable and you'll probably find manufacturer sites that discuss it.

BTW, there's "low phase change cable" and "repeatable phase change cable", and sometimes one is better than the other in a particular application.

1517. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-06 23:22:18 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gosb7ebst1@news.motzarella.org>
Source record: 17140
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man <invalid@invalid.invalid> wrote in message
news:gppxxr$o06$r@rec.humour.funny.hairy-call-girl.co.bulgaria:

> Keyser S&#65533;ze, ye idle drab, what hempen homespun have we swaggering
> here, ye kvetched:
>
>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>> news:sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela:
>>
>>> Keyser S&#65533;ze, ye rotting feader, ye same purpose clanger, ye sly
>>> devil, ye broker that still breaks the pate of faith, ye daily
>>> break-vow, ye dissented:
>>>
>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>> news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:
>>>>
>>>>> Keyser S&#65533;ze, ye grease-covered scurvy jack-dog priest, should all
>>>>> despair that hath revolted wives, the tenth of mankind would hang
>>>>> themselves, ye blubbered:
>>>>>
>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>>>>>>
>>>>>>> Keyser S&#65533;ze, ye legless gallfly, thy will is most malignant, ye
>>>>>>> sneered:
>>>>>>>
>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>>>>>
>>>>>>>>> Keyser S&#65533;ze, ye freakish work for bread, I had rather be
>>>>>>>>> married to a deaths head with a bone in his mouth, ye gnarled:
>>>>>>>>>
>>>>>>>>>> I think
>>>>>>>>>
>>>>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>>>>
>>>>>>>> :)
>>>>>>>>
>>>>>>>> Salve amicus.
>>>>>>>
>>>>>>> Crawler.
>>>>>>
>>>>>> Yes... bottom crawler to you.

>>>>>
>>>>> pmsl
>>>>
>>>> So, how was it, mate? Good?
>>>
>>> What, the bottom crawling?
>>
>> Yeah, I wanna know what marks out of fuckin' 10 you're gonna give me
>> for the bottom crawlin'!
>
> About this:
>
>>>>>> Yes... bottom crawler to you.
>
> Is that like Prince Philip, bottom crawler to Her Majesty?
>
>> <fuck me dead>
>
> Sorry, I don't bottom crawl.

1ol

>> No, the fuckin' jaunt?!
>
> It was ok. Ten hours drive each way.

You'd need a break after that ;->

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1518. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 00:11:16 UTC
From: Kadaitcha Man <invalid@invalid.invalid>
Message-ID: <sr6idi$v8b$3@news.admin.net-abuse.burly.cowgirls.biz.turkmenistan>
Source record: 17142
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Keyser S�ze, ye depraved puke-stocking, I desire that we be better
strangers, ye clamoured:

> Kadaitcha Man <invalid@invalid.invalid> wrote in message
> news:gppxxr$o06$r@rec.humour.funny.hairy-call-girl.co.bulgaria:
>
>> Keyser S�ze, ye idle drab, what hempen homespun have we swaggering
>> here, ye kvetched:
>>
>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>> news:sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela:
>>>
>>>> Keyser S�ze, ye rotting feader, ye same purpose clanger, ye sly
>>>> devil, ye broker that still breaks the pate of faith, ye daily
>>>> break-vow, ye dissented:
>>>>
>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>> news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:
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>>>>>> Keyser S�ze, ye grease-covered scurvy jack-dog priest, should all
>>>>>> despair that hath revolted wives, the tenth of mankind would hang
>>>>>> themselves, ye blubbered:
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>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>>>>>>>
>>>>>>>> Keyser S�ze, ye legless gallfly, thy will is most malignant, ye
>>>>>>>> sneered:
>>>>>>>>
>>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>>>>>>
>>>>>>>>>> Keyser S�ze, ye freakish work for bread, I had rather be
>>>>>>>>>> married to a deaths head with a bone in his mouth, ye
>>>>>>>>>> gnarled:
>>>>>>>>>>
>>>>>>>>>>> I think
>>>>>>>>>>
>>>>>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>>>>>
>>>>>>>>> :)
>>>>>>>>>
>>>>>>>>> Salve amicus.

>>>>>>>>
>>>>>>>> Crawler.
>>>>>>>
>>>>>>> Yes... bottom crawler to you.
>>>>>>
>>>>>> pmsl
>>>>>
>>>>> So, how was it, mate? Good?
>>>>
>>>> What, the bottom crawling?
>>>
>>> Yeah, I wanna know what marks out of fuckin' 10 you're gonna give me
>>> for the bottom crawlin'!
>>
>> About this:
>>
>>>>>>> Yes... bottom crawler to you.
>>
>> Is that like Prince Philip, bottom crawler to Her Majesty?
>>
>>> <fuck me dead>
>>
>> Sorry, I don't bottom crawl.
>
> 1ol
>
>>> No, the fuckin' jaunt?!
>>
>> It was ok. Ten hours drive each way.
>
> You'd need a break after that ;->

<looks at left leg>

Kunt.

--
alt.usenet.kooks
"We are arrant knaves all, believe none of us."
Hamlet, Act 3, Scene 1 [129]

Hammer of Thor: February 2007.
Pierre Salinger Memorial Hook, Line & Sinker:
September 2005, April 2006, January 2007, August 2008.
Barbara Woodhouse Memorial Dog Whistle, Official owner
and trainer of Bucky Breeder, August 2008.
Official Member: Cabal Obsidian Order COOSN-124-07-06660
Official Overseer of Kooks & Trolls in 24hoursupport.helpdesk

Member of:
Usenet Ruiner List

Top Assholes on the Net List
Most hated usenetizens of all time List
Cog in the AUK Hate Machine List

Find me on Google Maps: 24°39'47.13"S, 134°4'20.18"E

Join me for dinner. I'm cooking gruesome opossum heart with foreskin sauce accentuated with corrupt ferret belly and walrus ulcer conserve next to gummed-up whore's tit blisters, arranged in a chilled skillet chock full of bloody monkey testicle, squishy chunks of calamari and clam, flavoured water, a side of sheep salivary gland and a glass of penile secretions.

1519. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 00:13:57 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gose8b$e5b$1@news.motzarella.org>
Source record: 17143
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man <invalid@invalid.invalid> wrote in message
news:sr6idi$v8b$3@news.admin.net-abuse.burly.cowgirls.biz.turkmenistan:

> Keyser S&#65533;ze, ye depraved puke-stocking, I desire that we be better
> strangers, ye clamoured:
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>> news:gppxxr$o06$r@rec.humour.funny.hairy-call-girl.co.bulgaria:
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>>> Keyser S&#65533;ze, ye idle drab, what hempen homespun have we swaggering
>>> here, ye kvetched:
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>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>> news:sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela:
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>>>>> devil, ye broker that still breaks the pate of faith, ye daily
>>>>> break-vow, ye dissented:
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>>>>>>> all despair that hath revolted wives, the tenth of mankind
>>>>>>> would hang themselves, ye blubbered:
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>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
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>>>>>>>>> Keyser S&#65533;ze, ye legless gallfly, thy will is most malignant,
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>>>>>>>>>>
>>>>>>>>>>> Keyser S&#65533;ze, ye freakish work for bread, I had rather be
>>>>>>>>>>> married to a deaths head with a bone in his mouth, ye
>>>>>>>>>>> gnarled:
>>>>>>>>>>>
>>>>>>>>>>>> I think
>>>>>>>>>>>>
>>>>>>>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>>>>>>>>

>>>>>>>>>> :)
>>>>>>>>>>
>>>>>>>>>> Salve amicus.
>>>>>>>>>
>>>>>>>>>> Crawler.
>>>>>>>>>
>>>>>>>>> Yes... bottom crawler to you.
>>>>>>>>
>>>>>>>> pmsl
>>>>>>>
>>>>>>> So, how was it, mate? Good?
>>>>>>
>>>>>> What, the bottom crawling?
>>>>>
>>>>> Yeah, I wanna know what marks out of fuckin' 10 you're gonna give
>>>>> me for the bottom crawlin'!
>>>>
>>>> About this:
>>>>
>>>>>>>>>> Yes... bottom crawler to you.
>>>>
>>>> Is that like Prince Philip, bottom crawler to Her Majesty?
>>>>
>>>>> <fuck me dead>
>>>>
>>>> Sorry, I don't bottom crawl.
>>>
>>> 1ol
>>>
>>>>> No, the fuckin' jaunt?!
>>>>
>>>> It was ok. Ten hours drive each way.
>>>
>>> You'd need a break after that ;->
>>
>> <looks at left leg>
>>
> Kunt.

<sniggers>

I'm off to kip now - ttfn :-D

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1520. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 02:27:47 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <aJmdnb7Vspc7RizUnZ2dnUVZ_oWWnZ2d@posted.easystreetonline>
Source record: 17144

Daniel wrote:
> . . .
> I *have* done one experiment as a kid: I placed a dipole permanent
> magnet under a piece of paper and poured iron filings on the paper to
> see the pattern created when the filings arranged itself in the
> magnetic field. So I kinda have some understanding how field phenomena
> can behave. I just didn't connect it to antennas.

Your magnet experiment showed you one thing about a *static* field. Time-varying fields behave much differently, so it's a mistake to think that you now understand radio waves.

> Is it more correct
> to say that a field is established between the two antennas rather
> than saying that something is transmitted in a direction from one end
> to the other? (Of course on another level, *information* is
> transmitted in a direction, but I am referring to the level of the
> electromagnetic field).

No, it's not. One antenna creates a field whether or not the other antenna is there. The field propagates at the speed of light away from the transmit antenna.

> . . .

> As far as I can understand, the notion of "effective area" is quite
> artificial and only meaningful if one wants to fit a complex wave
> phenomena into a form where one can think of it in the naive way I
> have expressed in my earlier posts... Anyways, thanks for a great
> reply!

Yes and no. "Effective area" or "effective aperture" describes the cross section of the impinging field which contains the amount of energy the antenna captures and delivers to its load. It's most useful in the analysis of antennas that are very large in terms of wavelength, such as parabolic reflectors and horn antennas. For those, the effective aperture is on the order of, and closely related to, the physical area. When dealing with simpler and smaller antennas, though, there isn't any direct relationship between effective aperture and physical size, which leads to a lot of misunderstanding.

Roy Lewallen, W7EL

1521. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 04:26:42 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <9793ea42-daed-4507-bcf6-f076c6ab67b4@41g2000yqf.googlegroups.com>
Source record: 17145
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Feb 26, 6:16 pm, kb9...@yahoooo.com wrote:
> On Thu, 26 Feb 2009 14:38:06 -0800 (PST), KD8IMG is a 2 time convicted
> stalker of women <mopezakw...@yahoo.com> wrote:
>
> >On
>
> gte a life
>
> "one useless man is disgrace 2 become a law firm 3 or more become a congress"
> adams
>
> woger you are a Congress all in your own head
>
> http://kb9rqz.bravejournal.com/
> altopia is never used by KB9RQZ
> nor is Konst...@hotmail.com ever
> btw i can be found at
> 17366 N River Rd
> Chassel Mi
>
> but the cowards asking lack the gut to act

1522. Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 07:05:02 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/recruitment-1-1236409501@panix.com>
Source record: 17146
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team. We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.
```

1523. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 11:04:56 UTC
From: Kadaitcha Man <invalid@invalid.invalid>
Message-ID: <jfslbl$5zt$8@alt.movies.wheelchairs.net.venezuela>
Source record: 17147
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Keyser S�ze, ye prating simple men, go rate thy minions, proud insulting
boy, ye hooted:

> Kadaitcha Man <invalid@invalid.invalid> wrote in message
> news:sr6idi$v8b$3@news.admin.net-abuse.burly.cowgirls.biz.turkmenistan:
>
>> Keyser S�ze, ye depraved puke-stocking, I desire that we be better
>> strangers, ye clamoured:
>>
>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>> news:gppxxr$o06$r@rec.humour.funny.hairy-call-girl.co.bulgaria:
>>>
>>>> Keyser S�ze, ye idle drab, what hempen homespun have we swaggering
>>>> here, ye kvetched:
>>>>
>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>> news:sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela:
>>>>>
>>>>>> Keyser S�ze, ye rotting feader, ye same purpose clanger, ye sly
>>>>>> devil, ye broker that still breaks the pate of faith, ye daily
>>>>>> break-vow, ye dissented:
>>>>>>
>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>> news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:
>>>>>>>
>>>>>>>> Keyser S�ze, ye grease-covered scurvy jack-dog priest, should
>>>>>>>> all despair that hath revolted wives, the tenth of mankind
>>>>>>>> would hang themselves, ye blubbered:
>>>>>>>>
>>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
>>>>>>>>>
>>>>>>>>>> Keyser S�ze, ye legless gallfly, thy will is most malignant,
>>>>>>>>>> ye sneered:
>>>>>>>>>>
>>>>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>>>>>>>>
>>>>>>>>>>>> Keyser S�ze, ye freakish work for bread, I had rather be
>>>>>>>>>>>> married to a deaths head with a bone in his mouth, ye
>>>>>>>>>>>> gnarled:
>>>>>>>>>>>>
>>>>>>>>>>>>> I think

>>>>>>>>>>>>
>>>>>>>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>>>>>>>
>>>>>>>>>>> :)
>>>>>>>>>>>
>>>>>>>>>>> Salve amicus.
>>>>>>>>>>
>>>>>>>>>> Crawler.
>>>>>>>>>
>>>>>>>>> Yes... bottom crawler to you.
>>>>>>>>
>>>>>>>> pmsl
>>>>>>>
>>>>>>> So, how was it, mate? Good?
>>>>>>
>>>>>> What, the bottom crawling?
>>>>>
>>>>> Yeah, I wanna know what marks out of fuckin' 10 you're gonna give
>>>>> me for the bottom crawlin'!
>>>>
>>>> About this:
>>>>
>>>>>>>>>> Yes... bottom crawler to you.
>>>>
>>>> Is that like Prince Philip, bottom crawler to Her Majesty?
>>>>
>>>>> <fuck me dead>
>>>>
>>>> Sorry, I don't bottom crawl.
>>>
>>> 1ol
>>>
>>>>> No, the fuckin' jaunt?!
>>>>
>>>> It was ok. Ten hours drive each way.
>>>
>>> You'd need a break after that ;->
>>
>> <looks at left leg>
>>
>> Kunt.
>
> <sniggers>
>
> I'm off to kip now - ttfn :-D

I bet you sleep bottom up, hey.

--
alt.usenet.kooks

"We are arrant knaves all, believe none of us."
Hamlet, Act 3, Scene 1 [129]

Hammer of Thor: February 2007.
Pierre Salinger Memorial Hook, Line & Sinker:
September 2005, April 2006, January 2007, August 2008.
Barbara Woodhouse Memorial Dog Whistle, Official owner
and trainer of Bucky Breeder, August 2008.
Official Member: Cabal Obsidian Order COOSN-124-07-06660
Official Overseer of Kooks & Trolls in 24hoursupport.helpdesk

Member of:
Usenet Ruiner List
Top Assholes on the Net List
Most hated usenetizens of all time List
Cog in the AUK Hate Machine List

Find me on Google Maps: 24°39'47.13"S, 134°4'20.18"E

Join me for dinner. I'm cooking horrid bullfinch intestine and dalmatian
rectum topping con aberrant used tampons and jackrabbit bowels marinade,
simmered in a chilled tureen stuffed with bloody dessicated fungus,
chewy whole live mosquito larvae and shrimp, jellyfish and oddments of
live mosquito larvae sauce, a side of ocelot placenta and a pitcher of
kangaroo rat drool.

1524. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 13:26:48 UTC
From: Keyser S&#65533;ze <nonexistant.spoof@Sanguis.Bibimus.Corpus.edimus>
Message-ID: <gotsmshje1@news.motzarella.org>
Source record: 17148
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man <invalid@invalid.invalid> wrote in message
news:jfslbl$5zt$8@alt.movies.wheelchairs.net.venezuela:

> Keyser S&#65533;ze, ye prating simple men, go rate thy minions, proud
> insulting boy, ye hooted:
>
>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>> news:sr6idi$v8b$3@news.admin.net-abuse.burly.cowgirls.biz.turkmenistan:
>>
>>> Keyser S&#65533;ze, ye depraved puke-stocking, I desire that we be better
>>> strangers, ye clamoured:
>>>
>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>> news:gppxxr$o06$r@rec.humour.funny.hairy-call-girl.co.bulgaria:
>>>>
>>>>> Keyser S&#65533;ze, ye idle drab, what hempen homespun have we swaggering
>>>>> here, ye kvetched:
>>>>>
>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>> news:sgocerglk3@alt.atheism.old-ne'er-do-well.net.venezuela:
>>>>>>
>>>>>>> Keyser S&#65533;ze, ye rotting feader, ye same purpose clanger, ye sly
>>>>>>> devil, ye broker that still breaks the pate of faith, ye daily
>>>>>>> break-vow, ye dissented:
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>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>> news:uhpp93$5ff$q@alt.butts.unrefined-busties.biz.brunei:
>>>>>>>>
>>>>>>>>> Keyser S&#65533;ze, ye grease-covered scurvy jack-dog priest, should
>>>>>>>>> all despair that hath revolted wives, the tenth of mankind
>>>>>>>>> would hang themselves, ye blubbered:
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>>>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>>>> news:btkmw9qin7@alt.os.linux.flabby-hardware.net.hungary:
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>>>>>>>>>>> Keyser S&#65533;ze, ye legless gallfly, thy will is most malignant,
>>>>>>>>>>> ye sneered:
>>>>>>>>>>>
>>>>>>>>>>>> Kadaitcha Man <invalid@invalid.invalid> wrote in message
>>>>>>>>>>>> news:5el634$nd6$1@rec.arts.horror.willowy-brown-cherry.co.bosnia:
>>>>>>>>>>>>
>>>>>>>>>>>>> Keyser S&#65533;ze, ye freakish work for bread, I had rather be
>>>>>>>>>>>>> married to a deaths head with a bone in his mouth, ye

>>>>>>>>>>>>> gnarled:
>>>>>>>>>>>>
>>>>>>>>>>>>>> I think
>>>>>>>>>>>>
>>>>>>>>>>>>> BWAHAhAHAHAHAHAHAH!
>>>>>>>>>>>
>>>>>>>>>>>> :)
>>>>>>>>>>>
>>>>>>>>>>>> Salve amicus.
>>>>>>>>>>>
>>>>>>>>>>>> Crawler.
>>>>>>>>>>
>>>>>>>>>>> Yes... bottom crawler to you.
>>>>>>>>>
>>>>>>>>>> pmsl
>>>>>>>>
>>>>>>>> So, how was it, mate? Good?
>>>>>>>
>>>>>>> What, the bottom crawling?
>>>>>>
>>>>>> Yeah, I wanna know what marks out of fuckin' 10 you're gonna give
>>>>>> me for the bottom crawlin'!
>>>>>
>>>>> About this:
>>>>>
>>>>>>>>>>> Yes... bottom crawler to you.
>>>>>
>>>>> Is that like Prince Philip, bottom crawler to Her Majesty?
>>>>>
>>>>>> <fuck me dead>
>>>>>
>>>>> Sorry, I don't bottom crawl.
>>>>
>>>> 1ol
>>>>
>>>>>> No, the fuckin' jaunt?!
>>>>>
>>>>> It was ok. Ten hours drive each way.
>>>>
>>>> You'd need a break after that ;->
>>>
>>> <looks at left leg>
>>>
>>> Kunt.
>>
>> <sniggers>
>>
>> I'm off to kip now - ttfn :-D
>

> I bet you sleep bottom up, hey.

I'm a firm believer in getting down and dirty.

--
Everything that irritates us about others can lead us to
an understanding of ourselves. Jung

In individuals, insanity is rare; but in groups, parties,
nations, and epochs it is the rule. Nietzsche

1525. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 14:38:45 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49b286f2$0$18878$8046368a@newsreader.iphouse.net>
Source record: 17149

Richard Clark wrote:
> On Wed, 4 Mar 2009 11:22:44 -0000, "john zeiss"
> <bluestar@mail.invalid> wrote:
>
>> It now refuses to maintain its position at an *angle*. Slowly but surely
>> it drops down until it reaches the horizontal position.
>
> This is because of the loss of equilibrium in the gussian particels.
> They have become diamagnetized with the corresponding failure to
> support internal current flow which formerly held that antenna at is
> optimum non-vertical angle for efficient operation. Now that your
> antenna (aerial borealis) has assumed full horizontality you should
> think, instead, of tilting the radio to the proper vector relationship
> that fully matches with the integral weak-force buoyancy.
>
> 73's
> Richard Clark, KB7QHC

Richard

It could also be that the micro SpinDizzy drive in the antenna tip has
run out of anti Higgs bosons. This would result in an unavoidable gain
in mass causing the antenna to droop.

tom
K0TAR

1526. Re: annealed coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 15:34:32 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <cbef11f7-72a6-42cb-a94d-1dcadddd0711@p11g2000yqe.googlegroups.com>
Source record: 17150

On Mar 6, 6:05 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> JIMMIE wrote:
> > I have heard there is a process where coax cable is baked in an oven
> > to lessen the effects of temperature change of the cable on phase
> > shift. I havent been able to find any information on this process.
> > Direction to any information on the subject would be greatly
> > appreciated.
>
> > Jimmie
>
> mostly it's done by empirical methods..
>
> The idea is to relieve internal stresses by several temperature cycles,
> reducing at least one source of phase change.
>
> In reality, what you want is "consistent and repeatable phase change vs
> temperature without hysteresis"... hysteresis or randomness is usually
> due to mechanical effects (stick/slip, etc.), so temperature cycling
> fixes it.
>

Yes, I think this is the problem. There are multiple cables that must
remain phase matched fairly closely and they are exposed to the
weather. If there was a sudden change in phase of the signal on one
cable that would definatly be a problem. Any cable that does not have
hysterisis would probably work. I also realize now that the type of
cable being used is probably the worst possible choice. Just swiching
to a foam dielectic cable may solve the problem.

Jimmie

1527. Re: annealed coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 21:03:18 UTC
From: No Spam <nospam@nospam.com>
Message-ID: <gounem$at9$4@news.albasani.net>
Source record: 17051

On Sat, 07 Mar 2009 07:34:32 -0800, JIMMIE wrote:

> On Mar 6, 6:05 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
>> JIMMIE wrote:
>> > I have heard there is a process where coax cable is baked in an oven
>> > to lessen the effects of temperature change of the cable on phase
>> > shift. I havent been able to find any information on this process.
>> > Direction to any information on the subject would be greatly
>> > appreciated.
>>
>> > Jimmie
>>
>> mostly it's done by empirical methods..
>>
>> The idea is to relieve internal stresses by several temperature cycles,
>> reducing at least one source of phase change.
>>
>> In reality, what you want is "consistent and repeatable phase change vs
>> temperature without hysteresis"... hysteresis or randomness is usually
>> due to mechanical effects (stick/slip, etc.), so temperature cycling
>> fixes it.
>>
>>
> Yes, I think this is the problem. There are multiple cables that must
> remain phase matched fairly closely and they are exposed to the weather.
> If there was a sudden change in phase of the signal on one cable that
> would definatly be a problem. Any cable that does not have hysterisis
> would probably work. I also realize now that the type of cable being
> used is probably the worst possible choice. Just swiching to a foam
> dielectic cable may solve the problem.
>
>
> Jimmie

A little story of mine about phased coax....

No matter what the consultants tell you, make the two (or more) sample lines the same length and exposed to the elements in the same manner.

I ran into a sample loop problem on an 5 tower AM directional array where the coax from the sample loops were cut to the needed length and the phase difference was compensated for in the antenna monitor. There was a difference of several hundred feet between runs. Plus, one monitor loop was a hundred feet higher up a tower.

Once I made the sample runs the same using phase matched coax, coiling the same amount of coax on each tower then coiling the same access underground, the readings changed drastically and the array became more manageable. The insanity had ended!

Before installing the coax, measure each of them with connectors installed using a signal gen and splitter. Align the antenna monitor for 0phase on all inputs with a signal gen and splitter, then add the coax to the monitor with the signal gen and splitter on the other end before installing onto the tower to confirm system integrity. Excessive bends both in number and radius can change the phase of one line over the other so be conscious of how you make the individual runs!

If your under the FCC, make sure you have a CP. :-)

1528. Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 21:03:33 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <ujBsl.21032$Yx2.18103@en-nntp-06.dc1.easynews.com>
Source record: 17052

For what it's worth - may be interesting to those contemplating a similar project:

Phase 1 was finding 'such a deal' on a full sized 7-element Mosley Pro 57-B five band beam. Also researching towers that I wouldn't have to climb and still reach above my trees of 30-45'. e.g. 50' tower.

My first choice was a Heights crank-up, but cost moved me to Glen Martin Engineering's M-1350A package deal. (13" wide legs; 50' high w/guys) and their "Hazer" system to raise and lower the beam (with one or two guys temporarily disconnected at the ground).

Phase 2 was first digging the 36' x 36" x 45" hole for the base, then securing the tower rod base and pouring the concrete.

It took almost two weeks of occasional digging with a handy small "striker" shovel to dig the hole. That shovel holds just what I can lift up to the wheel barrow, and is easy to maneuver in the hole. I used a wood 2 x 4 frame which is also used for the top of the concrete platform. Easy then to keep sides vertical in line with the frame. The soil is a firm clayish-dirt mix. A problem not explained is what to use in the hole to support the metal tower rod base which only goes 28" into the hole. Why don't the manufacturers just make available longer rod supports? I ended up using concrete blocks under each of the 3 tower rods with a couple bricks on top to just equal the requirement for the rods with nuts to extend above the concrete the proper length. One handbook suggested a rebar wire cage in the hole, but I had no way to bend or weld rebar. I did try, driving around one morning to various shops with welding equipment, but none could or would do it. So, I cut various lengths of rebar and wired them at various angles and levels to the base and through the cinder blocks without going into the dirt sides. It made lots of surface area for concrete adherence.

The concrete: I'd checked some local concrete companies and had only two that responded with any interest. Actually, the closest to my home quoted me a price of $426 when I stopped by and asked, including a $125 delivery charge. Yikes! And it was close by and my "hole" was accessible so the truck could back right up and dump the load. As it turned out, when I was ready for the delivery I stopped by to prepay, and they lowered their price to $195 for 1.5 cu. yds., 3000+ spec, and no charge for delivery. I'd expected delivery in a few days, but they said they'd be over in about 15 minutes. They were, made the delivery, cleaned up their chutes, and in another 30 minutes I had it all smoothed out and finished!

I'll be letting it dry for at least a week. Now I'll be on to Phase 3, driving guy anchors into the ground, assembling the tower pieces, and preparing for the "several guys" walking up the tower into the air with the hinge mount in the base secure.

To be continued

Marv W5MTV

1529. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 21:27:47 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <e3431e09-5168-4e37-8703-c377c499a327@w35g2000yqm.googlegroups.com>
Source record: 17053

On Mar 7, 4:03 pm, MTV <volztexas...@comcast.net> wrote:
> For what it's worth - may be interesting to those contemplating a
> similar project:
>
> Phase 1 was finding 'such a deal' on a full sized 7-element Mosley Pro
> 57-B five band beam. Also researching towers that I wouldn't have to
> climb and still reach above my trees of 30-45'. e.g. 50' tower.
>
> My first choice was a Heights crank-up, but cost moved me to Glen Martin
> Engineering's M-1350A package deal. (13" wide legs; 50' high w/guys) and
> their "Hazer" system to raise and lower the beam (with one or two guys
> temporarily disconnected at the ground).
>
> Phase 2 was first digging the 36' x 36" x 45" hole for the base, then
> securing the tower rod base and pouring the concrete.
>
>   It took almost two weeks of occasional digging with a handy small
> "striker" shovel to dig the hole. That shovel holds just what I can lift
> up to the wheel barrow, and is easy to maneuver in the hole. I used a
> wood 2 x 4 frame which is also used for the top of the concrete
> platform. Easy then to keep sides vertical in line with the frame. The
> soil is a firm clayish-dirt mix. A problem not explained is what to use
> in the hole to support the metal tower rod base which only goes 28" into
> the hole. Why don't the manufacturers just make available longer rod
> supports? I ended up using concrete blocks under each of the 3 tower
> rods with a couple bricks on top to just equal the requirement for the
> rods with nuts to extend above the concrete the proper length. One
> handbook suggested a rebar wire cage in the hole, but I had no way to
> bend or weld rebar. I did try, driving around one morning to various
> shops with welding equipment, but none could or would do it. So, I cut
> various lengths of rebar and wired them at various angles and levels to
> the base and through the cinder blocks without going into the dirt
> sides. It made lots of surface area for concrete adherence.
>
> The concrete: I'd checked some local concrete companies and had only two
> that responded with any interest. Actually, the closest to my home
> quoted me a price of $426 when I stopped by and asked, including a $125
> delivery charge. Yikes! And it was close by and my "hole" was accessible
> so the truck could back right up and dump the load. As it turned out,
> when I was ready for the delivery I stopped by to prepay, and they
> lowered their price to $195 for 1.5 cu. yds., 3000+ spec, and no charge
> for delivery. I'd expected delivery in a few days, but they said they'd
> be over in about 15 minutes. They were, made the delivery, cleaned up
> their chutes, and in another 30 minutes I had it all smoothed out and

> finished!
>
> I'll be letting it dry for at least a week. Now I'll be on to Phase 3,
> driving guy anchors into the ground, assembling the tower pieces, and
> preparing for the "several guys" walking up the tower into the air with
> the hinge mount in the base secure.
>
> To be continued
>
> Marv W5MTV

$426 YIKES. I think it runs arounf 90 dollars a yard here with a 2 yard minimum order . There is no delivery fee unless you live way out in the boonies. I think they have a little truck that deliveres the concrete dry then they use your water to mix it for small orders, less wasteful but you still have to pay the 2 yard minimum.

Jimmie

1530. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 21:30:05 UTC
From: Allodoxaphobia <bit-bucket@config.com>
Message-ID: <slrngr5pqt.1bth.bit-bucket@shell.config.com>
Source record: 17054

On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:
>
> Phase 2 was first digging the 36' x 36" x 45" hole for the base, then
> securing the tower rod base and pouring the concrete.

A 36 foot deep hole ought to hold up a freestanding 100' tower --
or more! :-)

1531. Calling for Americans to Investigate 'magical, god like" Private Bankers with Triillions managing still our bank buildings that "LOST" all our monies mysteriously somewheres..

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-07 22:18:15 UTC
From: True Patriot American <111noemailhere@hotmail.com>
Message-ID: <nks5r45k3otj602nrsmkhjskoqn4gd17f4@4ax.com>
Source record: 17055
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

http://www.ae911truth.org/

-

Obama to Invite The Wealthy To Invest in The Bailout
http://www.washingtonpost.com/wp-dyn/content/article/2009/03/05/AR2009030503762_pf.html

'Who does this actually make sense to?' I would
be calling as the Host to the Coast to Coast radio
network - vote early and vote often.

-

Fed to Taxpayers: Up Yours! -- Insists on Hiding Bailout Data
http://wakeupfromyourslumber.blogspot.com/2009/03/fed-to-taxpayers-up-yours-insists-on.html

Who cares in America? All the bushwhores like
Alex Jones love George Noory for forbidding open
communications in America, while championing wars
against US as innocent folks all to further escape
the TRAITOR neocon LIAR war mongers for the crimes
of mass murder on 911. George Noory HATES America
to have Justice where a man like me could explain
the errors of a bushite's lawless ways in seconds,
and America can not be granted such wisdom to be
freely expressed where the good guys win. Sadist
Ron Paul wants to gut social programs blindly as
a corporate fascist, while claiming 911 was
committed by bin Laden - and, shockingly, (when
you consider the evidence available) that the
Iraq war crimes of rape, torture and mass murder,
are actually an American police action to defend
God's world - and Alex has ZERO problems with those
demon lies, and won't let ANYONE express the facts
on such History. To think that Alex insists he and
Ron Paul leads our "freedom" movement! Alex wants
to gun down innocent men in America as boasted,
and RON WANTS TO GO A GOLD STANDARD, BUT DOESN"T
WANT TO RECOVER THE STOLEN TRILLIONS. Who can
afford this continuing deliberate ignorance of
Alex Jones and the bushwhores, still asking for

our dwindling money to fight for anything but
Justice? Who? How much will it cost America to
donate to Alex Jones to afford US the public
knowledge that the Iraq war is a war crime? Or
that we have video of iron flowing like water
from the towers? How much?

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies
of American Liberty are eh? No concern whatsoever,
for all the teen soldiers conned to die for those
who committed 911 in NYC. The millions of bombing
victims, the tortures, the rapes of American women,
STILL, TO THIS DAY, left undefended by "the law".
Evil enemy of everyone these demon fuks are. How
difficult is it, to understand the facts they feign
complete blindness on? They WANT to con you as the
coward to life they are, willing to kill America to
make their antiChrist lawless enemy Mr. Bush happy.

-

'9/11 Conspiracy Theories Ridiculous' - Al Qaeda
http://www.youtube.com/watch?v=Q_OIXfkXEj0

-

Thom Hartmann - Swiftboating Social Security & Health Care Reform
http://www.youtube.com/watch?v=bZnwTrCJ4eU

The problem with America is they don't
realize how many great ideas come from
the one and only Tom Hartmann and Co..

2% is what Americans received in "trust
fund" SS deposits. did the Repugger crowd
know that as idiots fooled for being so
dumb out right? Even with SS's constant
debasement, it isn't thought to be in
jeopardy for decades, so what's the bum
rush? They want to "lose" it likely before
their times are through. We need King Johnny
to Host the Coast to Coast radio Show!! Vote
early, and vote often!

Banks Use Your Bailout Funds As "MOB" Tax Havens
http://www.youtube.com/watch?v=SzcJwt_aj9o

This is unreal to see America victimized to
die this way. They just refuse to raise their
phones to demand open communications on the
Coast to Coast radio networks to save

themselves. Justice will be done.

-

Emmylou Harris - LIVE - Hardly Strictly Bluegrass Festival
http://www.youtube.com/watch?v=jxk0zEELbPs

Doing "Get Up John" ~!

-

INTERPOL REJECTS CALL FOR ARRESTS OF WAR CRIMINALS

/ / INTERPOLï¿½s Constitution strictly prohibits the Organization from making ï¿½any intervention or activities of a political, military, religious or racial characterï¿½. \ \

Then, what the fcuk are they good for to not speak against clear war crime injustices against God and Humanity? Who pays for this without thought to question? YOU DO.

Alex Jones is a Bushwhore

Alex Jones stated today the reason why Ron Paul constantly LIES to America, is because he needs to play politics. Yes, he like Alex the censor of Truth, does not have the intellectual skills to ACTUALLY defend his silence of a grunts lawless position. 1441. American grunts in Iraq are dying for the escape of the Neocons, as NOT police officers trying to "police the world". Understand: Ron Paul actually sells bin Laden is the target for the crimes of 911. And Alex Jones, who we know knows better, refuses to defend Freedom's cause for Justice. No, today he told US he sides for a Con because he doesn't want America to openly communicate the facts to save our souls. Again, a bushwhore who believes Mr. Bush is above all the laws of the Universe as the Conservative bigot's false deity. Again, Mr. Bush closed 911 investigations as godless traitor. We, as Humanity, demand the demon enemy of Life, George Norry grant US the freedom to speak freely on the evidence available directly implicating the bushmobster Neoconners.

A Jew Speaks Out! - "All the answers are here."
http://www.webfilehost.com/?mode=viewupload&id=415673

'Israeli Military Attacks the Civilian Police Force'

Zionist Nazis CHOSEN for Public war crimes trials.
War crimes warranting death by Jewish firing squads.
Only Black Jews will be asked to pull the triggers
on the war criminals Convicted of mass murder. The
Zionist NAZIS confess to have broken the truce, to have
then targeted Christian School girls for deliberate
satanic mass murder against God ourselves, the Innocent.
Trying to have ourselves blame all Jews, instead of
the demonic zionist threat against Humanity. These be
not Jews who steal anothers home, but of that which
The LORD preaches. The Bible "I know the blasphemy of
them which say they are Jews, and are not, but are the
synagogue of Satan."

REVEALED: 'There was no Cabinet debate in run-up to war,'
http://www.dailymail.co.uk/news/article-1158148/REVEALED-There-Cabinet-debate-run-war-says
-Short-Government-refuses-release-minutes.html

/ / The Government is refusing to release minutes
of Cabinet meetings before the Iraq War because
they would reveal there was no discussion on
the issue. \ \ Couldn't even be bothered with
pretending when the cameras were off? Lazy
nazi war criminals laughing at Humanity's
demise for sacrificing to the ungodly Zionist
LIAR gains of demonic origins..

THIS IS FOR SURE TREASON NO?
Reminder: Peter Powers did the 7/7 bombings

-

911 WTC7 CBS Breakthrough
http://www.youtube.com/watch?v=vEn_6vqp17Y

Amazing News on Fox - 9/11 was an inside job told to troops
http://www.youtube.com/watch?v=Fbgd-mBdSjQ

9/11: Impossible Speed & Impact -- Busted! Updated
http://www.youtube.com/watch?v=L978nIT-AY4&feature=related

The no planes idea is mostly ignoring
the fact, that we all agree explosives
took those towers down as widely captured.
It's an inside job. The questions are always
cool, (though sometimes wasting time) and
by challenging our conceptions on what it is
that we can prove is vital if we're ever
going to understand that by Bush simply
closing criminal investigations on 911, he's
"officially" assisting in the escape of
those truly responsible for mass murder in
New York City. Why? Well it seems the Neocons
had this planned all along with those in NATO,

and the Chiefs of Staff, to con the dumb grunts
for criminal greeds. You know, a repuglicon.

Johnny for Coast to Coast Radio Host!

-

Wizards of Money
http://www.takeoverworld.info/wizardsom.html

This stuff is excellent! They are playing
the odds exactly like the bookies do. It
is actually illegal to do that now when I
think of it.. ! We'll need to discuss this
internationally to gain a better focus.

Your Car Has Been Repo'ed

The derivatives recordings sound fascinating.
I know the banksters don't cover our loans, fraud
from the get go, but these available estimates
going as high as into the tens of quadrillions
are a mathematical impossibility. But for the
the 'value' of something speculated with
OUR assets as truly worthless to be an "investment
vehicle" for our futures. (Like Hedge Funders.) The
"toxic assets" are the crime scene evidence of
monster fraud, where for the sales of paper
arbitrarily determined to be worth zillions,
they took the real deposits as commissions in
the trillions, just like a bookie does but
usually far more fairer. At least that is how
I see it with my limited knowledge on this one
particular scam of the Capitalist Free Market
System of Lawless Corruption Due a Failure in
Real Leadership. - worthless pieces of paper
America has paid trillions already as dahh..
LuCkY WinNaaAhhs. Do you People even know what
a Hedge Fund is? They hedge US out of the Markets
by nickel and dooming everything to undermine the
Market in it's entirety. And, some of these
people have "earned" as much as a trillion
dollars personally in the span of a short few
years under repuglicon misrule. Geniuses? Hardly.
What every Bookie does as a felony warranting
unjustly Life probably. They trade bets,
and take their cuts, paying themselves with the
money the private Investment banks hold, leaving
derivatives as balanced collateral, BUT, a
derivative can have no actual value. It's just
the rules on how the cash will be divvied on this
next go-around with the suckered. As according

too to a 60 Minutes spot on this very specific issue. Now, the bushmob with Obama, CNN, FoxNews and some of MSNBC have been issuing the blind acceptance, that buying these "toxic assets" was a better investment, than publicly challenging ourselves on where all the actual money went? and for wHaT?? Manufacturing has been purposefully outsourced by the Bushmob as treasonous SABOTAGE, while now, to make up for a small percentage of the massive job losses, they, to FOOL YOU, include those who flip burgers as the new Manufacturing Jobs created to make the numBerts look not so bad - but for Christ's sake, who even cares enough to demand CNN to count our Lives as worthy of defenses? ..besides, the Private Investment Fraudsters told US already. Bonuses paid by Public Welfare in the trillions to actual billionaires, with one CEO bragging all he needed to do was fudge his books, and he then immediately qualified himself for 272 million! IS FOR REAL. It was in the Washington Post. No, nobody was arrested, yet, in fact, I wouldn't doubt he's going to try for a second Public Cash infusion to bolster his 'credit' that you can't/don't/won't know: the magical Banksters never even cover our loans YOU left for robbed dead victims - So, needless to say, these new Inter-National Trillioniares, that expect Ourselves to pay them back for minimum fifty long generations, have been going on one hell of a shindig binge of excessive excesses, but what about the continuing "CRISIS" of PUBLIC Banking left undefended by looting? Giving the banksters any public money is totally crazy when we think aloud, but more?? is a recognized crime in progress. Giving public money to banksters to do what they will with our investment is nuts okay? - even if they lent it back, of which they have formally refused, but even if they did, it would still be nuts because where is the public's interest being defended where they pocket privately by defrauding near all at 99 percent there also? It's like you EARNING a thousand dollars, to then be told by the banker, he's going to charge you a thousand dollars plus interest for cashing YOUR check at the only bank available for fifty miles. (Your car has been repo'ed.) Answers: The depositor should be recognized as the shareholder - and there should be no private interests existing to take in between our exchanges for goods and services. Banks need to be separate from the Casino frauds which comprise much of what the Market is

today., and a tax for every buy and sell needs to
be re-introduced. Obama, and the Repugs want US to
religiously accept the Banker Buildings rule our
Reality by giving of ourselves blindly in huge
error. We can work it out. Ego must be chucked
- facts are facts - and Justice is measured as
Freedom is cherished. In other words: No evidence?
Person innocent.

Trillionaires, whatyahfingureeh?

Johnny America for Coast to Coast Radio Host.

-

Children sodomized at Abu Ghraib, on tape
http://www.salon.com/politics/war_room/2004/07/15/hersh/index.html

Again, understand: these "American" soldiers
are still being recognized as heroes. American
"Heroes" in the Mansions of Florida going un-arrested
for raping, and/or torturing INNOCENT PEOPLE TO DEATH.
Erstwhile committed criminally, to assist in the
'escape' of the neocon traitors for the crimes of
massive banker fraud, 911 and Iraq. Bush personally
worked to close FBI 911 investigations, immediately
after the terror attack occurred. Criminal. Torture is
still illegal if you didn't know so as an American
victim silenced by Coast to Coast censorship on your
personal value system being sacrificed. Pick up a
phone to champion wide open communications - Justice
for All is Freedom won. Speak for US demanding
international 911 arrests of those directly
responsible for mass murder in New York City.
Starting with Bush and Cheney for obstruction,
and any other that would stand against the
True American Patriot. Justice for 911.

Yours Truly

-

Peter B. Collins on everything goiing onnns - don't miss it!
http://www.mediafire.com/?nncoewod9nz
PBC 3 2 26 09.mp3
-
Fans Get Even With Riot Police
http://www.tooshocking.com/videos/6041/Fans_Get_Even_With_Riot_Police

-

Autism & Vaccines: U.S. Court of Claims
http://www.nvic.org//vaccines-and-diseases/Autism/courtclaims.aspx

The PROVEN fact here is that, without DOUBT,
Mercury causes brain damage one hundred percent
of the time. NO DEBATE. But Alex's NWO will blame
anyone but themselves for this communications
failure. NOT DEMANDING arrests against those in
government LIKE BUSH, who have consciously allowed
this massive criminal assault against all children,
continuing against our better judgments. Realize:
Alex Jones actually believes George Noory is anything
but a willing traitor who boosts in tale, propaganda
lies of death through terror to sacrifice American
GI Teens, all for the escape of the 911 perpetrators.
So again, I ask all to question, what is Alex's point
in not mentioning the crimes of the Bush Administration?
The Courts are being told to rule on whether a proven
connection can be found from vaccines to Autism, where
OUR Court should instead be ruling, mercury is a neural
toxic heavy metal causing irreparable brain damage.

-

Bird and Fortune - Subprime Crisis
http://www.youtube.com/watch?v=UC31Oudc5Bg

-

Bobby Jindal Gives A Pathetic Speech
http://www.mefeedia.com/entry/bobby-jindal-gives-a-pathetic-speech/14744063

He looks at US all, like naive five years olds no?
Unless he actually talks like that all the time,
then we maybe should be asking, who actually here
voted for this guy 'publicly' by under estimating
on our present economic dilemma, including
absent Justice for You also? Repuglicons on
TV should learn about themselves firstly,, instead
of denying our wiser, stronger voices. Instead of as
lackey substitutions, who jack for the murder of innocent
others portrayed 'suckered', you lost to blindly whoring
for the war criminals in Israel. The 'lawless' Bush
administration DOCTORED the NIE on Iraq, while Bush
LIED repeatedly that, "Saddam wouldn't let the inspectors
in." Assisting in the escaping the TRAITORS responsible
for the crimes of 911. Bush closed FBI investigations.

/ / btw jindal was horrible...came across so
phony...but if that's how he really is...yikes! \ \

US repeating old Iran lies at UN
http://www.presstv.ir/detail.aspx?id=86904&sectionid=351020101

THIS IS FOR SURE TREASON NO?

-

Alex Jones is a Fraud

/ / A bank that received $1.6 billion in bailout
money just spent a fortune last week in L.A. hosting
a series of lavish parties and concerts with famous
singers ... \ \ While CNN with George Noory can be
only happy here watching America robbed and left for
more dying victims? Yup. Who cares? Alex doesn't for,
George Noory is a 'good guy', and what ever you do,
never encourage the truthers to organize for public
debate against the evil enemy forces of the Satanic
LIAR Coast to Coast radio programmingers. Why, because
Alex Jones THE LIAR, would lose, and Americans would win.
Again, never forget, it IS Alex and George who silence
those who truly speak for Justice in America. "Bush is a
puppet" is the call of a hypno mugger, who cowardly,
refuses to fight against those who PROVABLY commit lawless
acts of murder in America. Not a Jewish conspiracy, you
demon fuks who deny George Walker Bush. Alex Jones stated
today as a demon enemy of GOD, that the bible states
the AntiChrist will appear posing not as Bush. I again,
demand Alex PROVE his NWO FRAUD against the Son of Man.
I want free communications to face any or all who
disagree that the Bushite promotes lawlessness as
acceptable, while Alex wants to lie as a cheat to
only pretend his rights champion ours dying. No evidence
against the accused, is US being abused.

the banker does NOT cover our loans

/ / Alex Jones on Coast to Coast tonight to speak Bush the mass
murderer, is just a 'puppet' for lying that Saddam wouldn't let
the inspectors in WITHOUT CORRECTION \ \

He's a bushwhore. A soul who refuses others to actually
understand their own conclusions. It's all about Alex, and
not about Justice. Bush closed 911 investigations. He'll
go on and on about the new bank of banks their selling
against "all" as a diversion to understand, the
international private bankers have stolen trillions as
of late, and believe Alex and George ain't gonna let
Americans know: The banker does NOT cover our loans, and
even if they did, WHICH THEY DON"T, why give them our
own money to only hope that they will lend a small
back to ourselves at high interest? The derivatives are
crucial in understanding what is going on here, and Alex
is stuck in his bullshit, nwo crap, blinding him from
understanding how the scams went down. A derivative has
no real value, unlike ARGUABLY, everything else comprised
of 'free market' highjinx. It's like me selling you a
piece of paper with nothing special written on it, for
ten billion dollars. NOW; why would you do that? Because

the American suckers are on the hook for the loses because
Alex doesn't want smart people to speak. Steve Quail is
as real a demon enemy of God and man than anyone. "He talks
directly to God", and 'knows' consciousness can be
imprisoned into Military Intel. Comps., but doesn't know
Laden as falsely accused - delusional enemy of rational
thought denying, like Alex Jones, Justice and Truth.

Justice in The Gun State of Texas

Texas Prepares to Execute Man for Driving a Car Near Scene of Murder
http://maritimes.indymedia.org/news/2007/08/21460.php

/ / Forbidden cross examination of the State's
definition of a witness's statement as co-accused as
definitely un-constitutional. Who was the jury really and how
did they not know what was absent as American jurisprudence
there? Who was the Texan "Judge" to find no outrage in
absence of argument for 'final' verdict? What was he to
judge, if the defense council's request to be heard wasn't
recognized? \ \ See Humanity? bushite HATES US for speaking
wise for the benefit of all fairly.

-

Bushite Alex Jones "Obama is so much worst than Bush was"

So, don't arrest him for treason that murdered Americans?
Remember, Alex in eight years did everything he could to
not allow any to discuss BUSH'S crimes spree. Doctoring
the NIE?, prior plan from Condi? Or stealing 50 billion?
I could easily go on for paragraphs on DOCUMENTED CRIMINAL
ACTS - acts that Alex would not allow YOU to know need
defense to save the lives of innocent Americans.

60 Minutes: CIA Official Reveals Bush, Cheney, Rice Were Told Iraq Had
No WMD
http://greywolf.newsvine.com/_news/2006/12/20/489409-60-minutes-cia-official-reveals-bush-cheney-rice-were-told-iraq-had-no-wmd

Dumfuk Grunt "Duh, why are we here to kill
good people needlessly so the bushmob back home can
further rob our undefended families bro? Bro?"

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Now or Never - One Peoples Rise to Power

J. Wizard "The fact that Bush gave you zero evidence can not be
denied"

http://cleveland.indymedia.org/uploads/2008/03/now-or-never.mp3
http://baltimore.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/03/now-or-never.mp3
http://newmexico.indymedia.org/uploads/2008/03/now-or-never.mp3
https://israel.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://www.indybay.org/uploads/2008/03/17/now-or-never.mp3
http://la.indymedia.org/uploads/2008/03/now-or-never.mp3
http://neworleans.media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://indymedia.nl/media/2008/03//50997.mp3
http://newjersey.indymedia.org/media/2008/03//20791.mp3
http://boston.indymedia.org/usermedia/audio/11/Now-or-Never.mp3
http://houston.indymedia.org/uploads/2008/02/now-or-never.mp3
http://imctj.espora.org/uploads/2008/02/now-or-never.mp3
http://argentina.indymedia.org/uploads/2008/03/now-or-never.mp3
http://canarias.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://istanbul.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indymedia.ie/attachments/feb2008/nowornever.mp3
http://media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://www.stlimc.org/usermedia/audio/10/now-or-never.mp3
http://peru.indymedia.org/uploads/2008/02/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indybay.org/uploads/2008/02/13/now-or-never.mp3
http://imctj.espora.org/uploads/2008/03/now-or-never.mp3

What's The Point Alex?

Hey! Alex Jones said today Bush isn't guilty of nothing,
but boy, Obama is bad he'll tell you never mentioning
the FACT Bush LIED US into the Iraq war as a war crime. 1441.
Won't allow it. Why? He is a bushwhore, a believer in Bush,
the Antichrist enemy of Humanity who told US if we tried to
form our own conclusion, we would all be terrorists. NO JOKE.
Bush, the most evil man of all History, Alex claims is
guilty of nothing. Example: Bush, is his first days,
STOLE 50 billion dollars. How can Bush (the banker family
tied to Hitler) be above all the laws of the Universe
someone ask Alex. You know, Alex will hang up on any man
or woman who states in question, as he did with Peggy,
a once loyal listener, why he refuses to acknowledge the
evidence of Ron Paul being cheated through a fixed
election. Attempting as a demon, to demonize whomever
phones with such truths - like Ahmad, or Condi's 911 plan
for Enron. Alex Jones is openly a bigot, and a man who
has OPENLY confessed the willingness to murder INNOCENT
Americans - before allowing Justice to rule for the
defense of every American. I want open debate, he wants
censorship, so he can continue to masturbate to the
continuing deaths of innocent Americans. Laughing with
DEMON George Noory who claims Laden did 911, Hamas broke
the truce, and Iran is a holocaust denier. Enron. Has
Alex even ever mentioned it as motive for invasion of
Afghanistan? Never. Has Alex ever stated the Taliban

were simply asking for evidence to form anyone's
conclusion on who was PERSONALLY responsible for 911?
NEVER. THINK here. Even after me sending him email
after email for years. Alex states all who criticize him,
are delusional, because he warns people of poisons fed
the masses. So therefore, every last word I state about
Alex Jones undermining our wanting for real Justice is
correct without argument - As according to ALEX, he is
delusional. Wow eh? Alex is a stupid bigot as a matter
of fact. He'll tell you we gotta get past the left right
thing, (trying to steal my thunder - where i give to all
freely) yet, near next breath, or the one before, he'll
tell you what all Liberals think. Or all socialists,
or... blahblah Someone should ask him what Christians
think about letting the mass murdering LIAR Bush escape
Public trial for high treason by conning teen grunts who
are now dead. Bush PERSONALLY closed 911 investigations
immediately after all. Again, NEVER mentioned by Alex
as important to our struggle to arrest, try, and execute
those responsible for mass murder in Johnny's America.
An America were every Human life is worthy our protections.
Where Alex Jones is NO GREATER than anyone of US. He is in
a popularity contest, while I couldn't give a rats ass
what rupuglicon, or demoncrates think about my wise words
on God and Justice. Great entertainers I am not blindly
enamored with, nor do I believe FALSELY, demon Bush, the
Antichrist, is above and beyond all laws of our Humanity.
If 99.9 percent of godless Americans disagree with me on
God's will to have all neocons with the Bush Administration
arrested immediately for public trial for high treasons,
to hell with them all as they lose their rights rightly.
For, they are not our friends who willingly murder OUR
Humanity for stolen private Banker gains. Alex, a bushwhore,
a censor, wrongly believes Bush is guilty of nothing. A
bushwhore of the antiChrist he is. I mean come on, he
claims all those folks who followed truth mentioned in
the Bible were murdered. How stupid is that????? From
what I recall there was a misunderstanding, and well, that's
about it. How many American "Christians" actually believe a
man of God actually walks this world? How many? Being Gay
is okay with me. I'm not Gay, but still to each his or
her own, as long as your not infringing on the rights of
another to do what ever they choose. I love all children
too much. Real Freedom. GCN advertised HATE for Gay folks,
then at the website, murder - and the station sees still,
no problem with dividing our innocent masses on desperate
attempts to escape the neocons from Justice. That's the REAL
reason Alex states a derision for Liberals. Note: "Liberals"
in Canada are a right wing party that disbanded the RCMP
corporate crime division as perfect example, and! sent a

Soldier to prison for refusing criminal orders. Never allowed by Alex, for his gold dealing boss has a son killing innocent Peoples for Neoconned cash in Iraq today. ALEX WANTS TO CENSOR US ALONG WITH THE ENTIRE BIBLE NOW WHILE MASTURBATING HOW HE IS NEVER WRONG? In his dreams maybe, but not our shared suffering reality. By the way, has Alex ever written for Justice? and why not?, considering he is so greater than all others who haven't been invited on his show he stupidly said two or three days ago, me, and everybody else here globally? Truly delusional he is for not being truthful. Be a man Alex and face me in open debate to defend YOUR idiocy, he won't because HE KNOWS, Americans would win, and we would look the fool as loser. Too cowardly to defend America he is, because he doesn't have the virtue for it, and refuses to hold respect for men like me hugely wiser than himself he works to keep all down for death. Alex claimed the will to gun down kids who steal copper. Not only a man unqualified to "lead the Truth", but not qualified to even carry a gun. He told US when hearing the bullets going into the backs of two innocent men in an act of pre-meditated murder, it was 'the sound of Liberty'. That is evil to all my friends, evil to US all. He has called himself "the white devil" while mimicking another he refused to allow speak for himself after all.. And no, a debate between US and Alex will not be done where he gets the cut off switch to deny all others under the sun who speak for real Justice. Real freedom.

Bush and Cheney are traitors to the cause of American Liberty. To leave them free, is to leave America un-guarded from further transgression.

Patriotic American Navy Vet is tortured by bushite nazi grunts
http://killfile.newsvine.com/_news/2006/12/21/491153-white-american-navy-vet-is-illegally-detained-tortured-and-tried-by-us-government?last=1166730840#last_4

Again, Reagan warrants death to all who torture, and a deep hatred for all ungodly in America who support it. Why? Because the vast American public (especially FoxNews treasonous LYING enemies of The People) DO NOT have the intellectual skill to understand what freedom is. Justice. Look at me! they can't seem to talk for Christ's interests, that smart ass know it all, where he thinks he's so ingenious where no one on Earth can find fault with his indisputable simple logic we share EQUALLY. (Bankers don't cover our loans for example) Kill my kids, my spouse, myself, before allowing John to speak openly in the public on Coast to Coast for open debate, all of Americans say in silence censored. Why does America continue to die this way? Because bushites are truly as they claim,

stupidly ignorant as treasonous cowards, or as prosecutable criminals, evil people who only want in this world to rob or murder People indiscriminately as enemies to Justice, enemies to GOD, a Criminal. NOT A JEW you fuks! George Noory will tell you freely all about his hatred for our Humanity, he does it near everyday, though People don't have the ears to hear, or the care. Too scummy. That remember! get American GIs murdered by the score with NO REASON AS FOR. Example: why bomb more than a million innocent souls indiscriminately in Iraq, if you have complete unrestricted access to go where ever you will? And, that Bush, Cheney, Condi and such, knew from day one, Saddam had all the WMD destroyed as documented fully, as did I. Documents that BUSH personally stole if you recall not listening to Alex Jones, Foxnews, CNN, or the CBC. err. maybe it was Bolton - s-t-o-l-e-n -.
Likely, as a likewise deeply ignorant person, you know little of Life as principled for individual freedom, and couldn't care less what this boundless Universe offers all in reflection, instead, it all about what's in it for you as a lying cheating thief to this mystery right? Wanna be a lawless mercenary to murder innocent people dreaming of becoming a private investment banker, who never earns a dollar in their entire careers, taking trillions undefended from Humanity just to see US suffer to deaths for our continued silence. All you have to do is raise your phone to demand justice in our times. All Neocons must be arrested for public trial, along with near every last member of the Bush Administration. PUBLIC TRIAL. And Soldiers must learn quick a commander who doesn't support getting those responsible by following the crimes scene leads, is a commander deserving of an immediate firing. Otherwise, what use is the grunt good for eh?

Again, Ron Paul like near all Libertarians, does not acknowledge the wanting of Justice for the high crimes of Banker fraud, Iraq, or 911! He took the "Truther" money, but refused to support the arrest of Bush for treasons times 50. Social Security he wants to gut like Health Care as a sadist who knows near nothing on how such systems currently operate. Again, he does not speak of recouping the STOLEN 1000s of billions from America, or the lives. STOLEN. What is it that you can't figure here? Fuk ego, FACTS. We are all effected by suggestion, this is why, since the dawn of time, evidence has been the prerequisite to convince ourselves of anything. Alex's cartoon storyboard, is truly, as measured, Alex masturbating with our precious times. Think:

Alex doesn't ask Americans why they don't support
the arrest of Bush for high treason because a world
where all are treated equitably is beyond his
understanding as a bigot. He could change, but he
is 'light years ahead of the Public'.. but of what?
All you need do, is every time Alex says "they",
ask yourself, WHO? - then know: the bartender at
"Bilderberg", isn't as FOR SURE guilty of crimes as
Condi from "Builderberg" is. The 911 plan came from
her very desk according to MSNBC, never mentioned by
Alex Jones. Why? You have to be near genius like
me to explain it COMPLETELY without even seeing it.
NOT MAGIC, more like meditation through understanding
our universe is ruled by good ideas. Alex is a man,
a Good man mostly, with some fears countered with
an irrational aggression (not thought through) that
found him blindly supporting the murder of two
innocent men. Not freedom. while I, am of God. An
actual god. The Son of Man as a matter of fact.
I want to tell you how great Life could be, but i
see so very little of words present to survive the
lawless corporate state. I AGAIN, will ask YOU to
forward this post to two People, but will YOU??
Torture is outlawed by warranting Death under Reagan,
and.. it's like the best way to resolve a FoxNews
'excuse' given to illiterate nazi grunts to abuse
ourselves as innocent others. Tell me I'm wrong.
. . KBR rapes American women, or murders them,
and needs to be hunted down by All American military
forces for it, as trialled to death. Including all
commanders of the Air Forces responsible for bombing
our families without causes. And lastly, any that
discourage our grunts from not supporting the arrests
of those that actually did US wrong. Get to it.

True you Fool

http://www.crooksandliars.com/Media/Download/16792/3/60Minutes-Tenet-2.wmv

/ / OH THE HORROR.... To those who say I lied about what
Tenent FREELY confesses (60Minutes-Tenet-2.wmv) LISTEN
in horror at what America is truly led blindly into
hell with STILL.. \ \ crooksandliars pulled the recording!
It it Tenant tells of the bushmob knowing in July 2001 bin
Laden was going to get blamed for a strike big in America
from a cave in Afghanistan! Then later, (not mentioned) in
AUGUST! Powell went over there himself personally, and gave
the Taliban 43 or 47 million dollars as an award. Swear
to God true. NOT HIDDEN. Look it up. I mean it made almost all
the major dailies. See? This is what Alex fears, that wise men,
actual wise men, like myself, can put this stuff together in

seconds by freely communicating for open challenge on error,
of what would take others committed to dying through censorship
for blind fear, never in a lifetime spared. Who cares right?

Johnny Law for Coast to Coast radio host!

-

9/11 - strange facts
http://www.youtube.com/watch?v=MeybdEuf16A&feature=related

Alex Jones on Coast To Coast AM with George Noory P2
http://www.youtube.com/watch?v=F5KHtj_b0Ro&feature=related

"I'm light-years ahead of the general Public in knowledge"

/ / Yet, doesn't know a thing about Education,
Health Care, Social Security, Banking, or evidence
to form our guilty or innocent verdicts on which
war to fight for. And.. can't figure Bush guilty for
treason? Apparently yes, that dumb. \ \

A Den of Thieves - why give to private bankers
who don't cover loans you godless nazi savages?

http://crooksandliars.com/susie-madrak/gop-house-whips-wife-didnt-know-her-b

/ / the firm for which the spouse of the
House Republican whip works has scarfed
up a couple of hundred million bucks in
the banking bailout. Really. (I can
understand why you might wonder,
considering Rep. Cantor's role model
seems to be the disgraced Tom DeLay.) \ \

Private Banking Made Simple

http://www.megaupload.com/?d=0K03GAVY
http://www.mediafire.com/?xo9w32zmfox

Israeli Bombs inflict more pain on Gaza hospital
http://uruknet.info/?p=m51882&hd=&size=1&l=e

DEBATE OVER

/ / Late last week, a federal court ruled that
there was no link between childhood vaccines
and Autism. But the legal conclusion is not
enough to erase many parents' concerns and
the debate continues. \ \ Mercury causes brain
damage as a neural-toxic heavy metal. Love God
why don't you? Alex near always calls his
critics jealous, so, are you jealous? Would
you rather see every American child murdered,
or suffer toxic poisoning, before acknowledging

we are without challenge, the greatest minds of
our time? Hurt you does it? Can't find a single
argument against my demand for Justice, but dying
instead, claim my call for freedom practiced
is to good is to be true in your dying dummy world
censored? It IS George Noory that denies you the
respect a person who craves Justice for all 911
victims. Cartoonish Alex Jones, the bigot, sucks.

The New World Order Alex Fears
http://groups.google.com/group/alt.military.police/browse_frm/thread/c61e5ca386f9f07b?hl=e
n

This Specifically:
http://groups.google.com/group/soc.culture.iraq/msg/c681b8ed9de5ede3

Alex Jones, "Liberals don't like Bush."for
mass murdering Humanity as never elected
demon enemy of God he means?

He tries to divide the freedom movement
away from Justice for ourselves.

Question for Alex Jones NWOers, wouldn't
God, if we existed, wouldn't God, push for
a one world government where all are treated
fairly through Justice practiced? Yes or no?

America! I am King Johnny.. I am from the Planet
Earth, I've come to share the knowledge of Justice
in our times on behalf of this, Our Future Great
Triumph over Evil.

/ / At 8:51, the flight [175] deviated from its
assigned altitude [31,000 feet - therefore cell
phones impossible], and a minute later New York
air traffic controllers began repeatedly and
unsuccessfully trying to contact it."

And one minute later at 8.52, Lee Hanson
receives a call from his son Peter. \ \

Couldn't have happened, as is why, these phony
"FBI" bushmobsters stole the recordings and
don't want the still dying victims to know
the truth of the Neocon traitors to God and
Justice. Cell phones are not capable of
paralaxing above likely a couple thousand.
Someone on Earth would likely know the near
exact scientifically measured distance as nothing
greater than a couple thousand, for why the
need to put towers all over our fair cities
then? 31,000 feet is a distance of miles!

Hint: 5,280 feet in a mile. 5.871212 miles
in fact. Drive out 5 miles from your nearest
cell phone tower, oh yeah, and don't forget
to bring a elevator like aluminum box to stand
in, moving 500 miles an hour, then ask yourself,
how dumb does a Repuglicon or Obamanaut take US
for as silenced to the tyranny of mass murder
in my America?

TED SAID SHE DIDN'T HAVE HER PURSE
http://911review.org/Sept11Wiki/Olsen,Ted.shtml

/ / Ted supposedly told CNN that she called him
collect. However; once a credit card is swiped,
you can begin using the phone to make calls.
So, no collect call would have been made. \ \
The allegation also has been debunked by
reported to be, Airline officials who stated
no public phones were even available on 177.
That seems near too far fetched, BUT!, GTE
Airphone reports DO SAY - zero call assists
were made on flight 177. ZERO. So, how then
does she make a collect call then, and why
if as claimed, Ted and Barbara were madly
in love, would she not know her hubby's
personal number?

Remember, Ted was the coke pusher's lawyer in
the Contra case, of which Ted, was also
assistant secretary to the Solicitor under
Reagan. The Contra group if you recall were/are
pushing crack cocaine into major cities for
plans to undermine the American government for
illegal wars against peaceful civilized life
as stolen profit. YOURS.

FBI SAYS TED OLSON LIED OR WAS DUPED. NO 9/11 PHONE CALLS
http://www.youtube.com/watch?v=v78ibOa4PDE

The Olson story would make for good horror
if it just wasn't so horrific. EVEN I'M
SPOOKED. Olson tells of a elaborate drama
where he learns, she without her pursed
cell-phone, has to call through the phone
records of the Justice Department. How did
he forget that fact when first pronouncing
of how she had phoned him from a cell-phone,
or, then from an airliner that didn't have
phones in the cheap seats, nor tear-gassed
upper-classes? The trouble here is that
a small cadre of bushmobsters keep hiding
the evidence on CNN, FoxNews and George Noory

implicating themselves at the crime scene,
as illegitimate "intelligent officers" -
we WANT to know our media voices the voices
of those who support defending ourselves from
the 911 war mongering terrorist enemies.
Evidence is the prerequisite.

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Beverly Eckert - victim to mysterious plane crash
http://www.commondreams.org/views03/1220-04.htm

/ / By suing, I've forfeited the "$1.8 million average
award" for a death claim I could have collected under the fund.
Nor do I have any illusions about winning money in my
suit. What I do know is I owe it to my husband, whose
death I believe could have been avoided, to see that
all of those responsible are held accountable \ \

Americans Want Torture Inquiry, Obama Doesnï¿½t
http://www.uruknet.de/?p=m51793&hd=&size=1&l=e

(who spoke to Obama just several days ago about bringing
Justice for America - Beverly, a anti-torture campaigner
also, likely spoke to Obama on the interest for EVERY
American Christian to hunt for prosecutions of bushite
enemies who lawlessly torture innocent children to death
with General Miller - what's Obama's response outside
of more false arrests of Americans, torture, and bombings
while giving banksters more billions to disappear out the door
never to be accounted for either? not much to care, for
Alex Jones is running his cover, along with the bushmobster
neoCONners)

It's too bad Alex Jones, and his demon 'buddy',
George Norry forbids Americans to know of General
Ahmad, Bush closing FBI investigations, and iron
flowing from the towers as more important than a
passing fact he might have mentioned three or
four years ago - Alex I mean - George's direct
policy as so told to Alex, is NO INFORMATION on
who was personally responsible for mass murder will
be ever allowed spoken, while he demonizes millions
on hopes for more indiscriminate mass murders killing
mindless teen grunts to profit Zionism's war against
Truth and or God.

Stephen Harper copies John Howard WORD FOR WORD
http://www.youtube.com/watch?v=L8YwJC_nBgw

BANKER SOLUTION

Solution: refinance near zero interest, (as low as we can go),
and concentrate on returning all defrauded assets - working to
put money in the hands of our criminally stolen from Low Income
Grand Parents, who are robbed routinely in Casinos, and fraudulent
mortgages schemes, where the intent is never succeeding
but for the scammers playing US for suckers. Then, lower the
taxes on all essentials including, expenses of harmful Pharma,
clean up the food and the water with tight regulations - 'tight'
because it's well thought out scientifically,. (sodium Fluoride
is a poison) .All the while, gearing up for the Trial of Trials
- US vs George Walker Bush and Co..

This is FDR's idea that worked "refinance near zero interest"
So, a working plan could be to create a near no private profit
plan, but a public plan that profit's The People Instead of
Banksters stealing our public authority unchallenged by American
corporate culture for personal private interest left undefended.
The Depositors are the Shareholders! Broadcasting Everywhere.

/ / Provisions to impose a penalty on banks that paid hefty bonuses
and to cap pay at $400,000 for all employees at firms applying for
additional government funds did not survive the compromise, sources
said. \ \ Another sacrifice to America's "God" substitute. aka magic
private banker zillioniares, who rule the free thought of TV AmerikCo
giving your life without free thought to question.

Why pay bankers more when they DO NOT cover our loans?
Hate US still for speaking truth dying amerikcan dumfuk?

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related
[CNN pulled this A. Cooper report off youtube - accessory]

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever.

King Johnny's "Nazi Israel"
http://www.megaupload.com/?d=QAEXT4G0
(note: History has changed since then)

-

FBI Believed that Bombs Used on 9/11
http://georgewashington2.blogspot.com/2009/02/fbi-believed-that-911-involved-bombs.html

/ / Indeed, the FBI told a reporter for
USA Today that FBI agents believed there
were bombs in the Twin Towers. \ \

Awesome. Where is CNN and CBC here? Is
this an issue of life and death or no?
Who are they to judge OUR lives unworthy
of defense? I am King Johnny. Support my
demands for open communications above the
NWO shills who bark Bush and the Neocons
must be allowed to escape our Public
authority.

Eyewitness to Shanksville Crash - It Was Not a 757
http://www.youtube.com/watch?v=An_nXpr5K0A

Fake 9/11 Call From Flight 93 Exposed!
http://www.youtube.com/watch?v=L8JV3dJEJmA

These two "fbi" officers have to be brought in
with Mueller for questioning on Coast to Coast,
CNN, and the CBC. Likely the same two
responsible for following something near
3,000 leads, as so told to the actor, ah..
whatshisname about turban wearing zeros.

-
responsible for releasing millions of American made land mine
cluster duds that will murder as TERRORISTS do,
indiscriminately for decades. Perez, the DEVIL, along with
corporate news zionists, hold those crimes deserve immediate
executions with targeted strikes against the purveyors of true
EVILNESS. Please I beg, give G-D mercy.

http://www.waynemadsenreport.com/

/ / According to U.S. intelligence sources, at the end of
June 2001, the FBI intercepted two phone calls from Grossman
in which he told the called parties to "stay away from
Brewster Jennings . [Plame's TP SCRT Cover to nab REAL
terrorist WMD proliferators by using GOOD policing freedom
skills - with logical arguments, warrants, and everything!] .
. they're the government . . . they're nothing but a
cover." One of the calls was to a Pakistani Inter Services
Intelligence (ISI) top agent in Washington. \ \

So, the ISI was warned by the White House clandestinely, in
June 2001, 'some do gooder cops are on the prowl defending our
interests, looking for REAL terrorists who jeopardize
Freedom's cause, so, you'd better watch out for America's will
power, US might get US, and boy, then we'd be in for one big
hell of a surprise!,. eh?. Are you still with me? Hello?
Is someone else on this line? ... Yyyou'll never catch me.'

Marc "Johnny America" Grossman "Any country that doesn't go
along with US will be paying a very heavy price."

CNN Admits 9-11 Inside Job
http://www.youtube.com/watch?v=uyMIqVfH8zY

Patriot of Great Britain arrested for sending
"7/7 Ripple Effect" to judge and jury members
http://truthaction.org/forum/viewtopic.php?t=4999

/ / Anthony John Hill, originally from Sheffield,
was arrested on Carrig Street in Kells this morning
on foot of a warrant issued by the authorities in
Britain.

It is alleged he sent DVDs entitled "7/7 Ripple
Effect" to the jury, the judge and members of the
victims' families. \ \

All of Great Britain joins US in demanding
the "Judge" to face trial for death sentence.
Peter Powers "did" the 7/7 bombings. Ask
Netanyahoo, he knows.

-

Report Of ï¿½People Planting Bombsï¿½ on 9/11
http://www.prisonplanet.com/report-of-people-planting-bombs-on-911.html

Why isn't Happy George Norry, Our Enemy, covering
this everyday as an important subject to defend
American life he holds truly in contempt?
Again, Alex Jones leaves every American to die
victim to his NWO, before he will acknowledge
TRUE evil in our world. George Noory, the evilest
ACTUAL Enemy of History, Alex claims is a good
guy for never allowing open discussion on 911,
Afghanistan, Iraq, and so on, without selling
his Zionist hate for our Humanity.
allowing the notion that he, and
his likewise cult, might just have something to
learn about evidence being a REQUIREMENT to prove
someone's guilt or innocence. His godless commitment
is to escape Bush, and his zionist media controllers
with excuses that don't hold water in any Court of
Thee. Alex refuses to allow Americans to know why
the Constitutional protections are there to defend
yourself, because if you did, you'd demand the
arrest of Bush for treason, and call Ron Paul a
sell out loser who pocketed the millions conned for
being Alex's loyal fans. Alex doesn't like this Truth
because he's gotta be leading Earth's "Truthers"
at the pinnacle of his spear as a liar, where all
of History, is one badly drawn Alex Jones cartoon.

I must be on crazy pills
http://www.uruknet.de/?p=m51615&hd=&size=1&l=e

/ / Well, why haven't the banks just returned
the money?... \ \

People who know they defeat all "Conservatives"
in seconds with indisputable simple logic, will
eventually rule the Universe, if CNN, CBC, and
Alex Jones allow open communications on what is
understood by all as high acts of treason openly
committed without a defense of smart people
explaining why/how we are being rooked as idiots
on purpose. Crazy man, crazy.

Oh, logic like, "Buying in bulk is cheaper."

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why
bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what
any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

Private Banking Made Simple
http://www.mediafire.com/?xo9w32zmfox

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3

http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough
-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the
deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate
cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

Worst Person in American Broadcast Journalism
http://www.youtube.com/watch?v=ll2YW32bqi4&feature=channel

This is like, so profound. Gibson's condemnation
is directly aimed at his own ideas of the subject
he has no grasp of. Wow. profound. See though..
this "popular" FoxsNews celeb has zero interest in
helping America succeed to defend freedom through
lawful actions, because he has no sight of a better
world blindly destroying itself. Hey Gibson! why
don't you try and be a good guy for a change! No
joke. Wow. Profound.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-children-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty
verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Five years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all
around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be
an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men. dying.

-

PetBed-CatTree
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all comes back as Confucius says, "Do unto others, as you would have them do unto you." And Christ said that, Hillel said that, Buddha said that, everybody says that, cause that's all it is. But bushite, he wants to accuse People of criminal offenses without any evidence, and indiscriminately slaughter everybody in countries, for no good reason but to be OUR ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against American interests in defending ourselves from indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal action to falsely imprison American children for more stolen money. Will the contractor be arrested, tried, then executed in America to defend American children? Unlikely, because it isn't as important as how fat Oprah is today, or as Alex Jones the bigot would say, on how daily, the hidden NWO elites are responsible for every criminal action against Liberty in America, not war crime dictating LIAR Bush who told US Saddam wouldn't let the inspectors in without corporate news correction, Bush, who closed Police investigations on 911 for Enron, KBR, and the Kissinger associates. And certainly not Bremer for personally stealing tens of billions, no no no, "just puppets" "just puppets" as instead, the Illuminati in other words not allowed spoken understood with Alex Jones NWOers. I want a free to speak arena where 50 percent of what Alex spews is truly dumber than stupid. Why? because he is controlled through his personal weakness of bigotry, to actually believe foolish things as factual. Examples are truly endless when we discuss Alex Jones' dumminess, but here is one example. Alex states 911 truthers were attacked in a TV show as NWO mind control- but, the "truther" he referred to talked in the drama on there being NO PLANES! A dis-info bushite stooge if ever was one depicted with special effects. We suffer with his bullshit every day, knowing if we tried to phone, would not be granted a minute because I, in support of Freedom for America, make all bigots look truly

dumb as fascists lashing out at nothingness to
divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions. Yet.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministerï¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow
/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change

this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&pla
ynext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3

http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&
scoring=d&

Huh? "at last been disarmed..." ? How does he figure?
The equation hasn't changed. Example: The same
unaccounted anthrax, (that was disintegrated into ash),
still is not able to be measured as completely accounted
for, (never could be), but this bushwhoring war crime
apologist, tells US, it was only though the lawless
murder of our good friends and family for countless
generations, that he now attests without reason, or
evidence, to find Iraq in "fact" disarmed of it's still
nowhere to be found, weapons of mass destruction. (An
irrational reason he pronounced previous in corporately
broacasted public support of instigating heinous war
crimes against our humanity under the leadership skills
of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron.
And, the Iraq war is a war crime. But Ron, the
Fascist, doesn't want THESE FACTS uttered. Why?
Because wiser men would prevail, wiser men like
me who understand buying in bulk is cheaper. Those
like Christ who understand, who KNOW, the banker
doesn't cover our loans - so why give them as much
as a taxed red penny?, let alone trillions as
officially unaccounted for? They are stealing the
cash Ron. Ask yourself: Why has Alex Jones
forbidden his bushwhore cult from understanding
Bush doctored the NIE?, or of iron flowing like
water from the towers? Because wiser men would
prevail and he can't have that. He called shooting
innocent men in the back, an act of liberty. I,
an actual god, unlike Alex, lie near never, but
maybe to myself when I'm lonely. Alex yes will

tell you rapists are free to do what they will
in Texas to American children, un-arrested, but
he won't mention it when the police chief is with
him on air, talking about how he'd like to be
exempt from traffic tickets for being so popular.
NO MENTION of the rapists walking away without
arrests made, no mention of Bush's documented
treasons on 911. Where are Alex's priorities?
In selling YOU out so he can be wealthy like a
bankster?, and have special rights over everyone
else that drives drunk, or speeds? a big hero
standing over our dead soldiers yelling, I told
you so, I told you so, I was right, I was right.
Again, understand: It is not by my will to deny
open debate with America, it is Alex, and his
demon buddy George Noory that denies out Humanity
this right. And when people try, like Peggy, or
Black men on Jewry, Alex lies cheats and steals
our wills for further thefts. Ron Paul's family has
millions taken from loyal Alex Jones fans. MILLIONS!
Does Ron do commercials with that money highlighting
the bushmob's plan to invade Afghanistan, dated two
days prior to 911 for Enron? Of course not, wiser men
would prevail to expose him as the charlatan charity
raider he is regarding Health Care, Social Security,
Public Schooling, earmarks.. It is unfair to measure
Ron against corporate nazi zionist whores of MSNBC who
willing, openly, kill American teen soldiers for
criminal neocon gains, as an honorable gentleman's
talk. Half honest People like Ron are extremely ignorant
on the workings of our world. EXTREMELY. I joke here not.
Evil is the deceived disguised - translated - evil
people are always dumb.

Corporate America says no, Charlie Manson was a genius,
but not, that most Americans are prone too easily to
suggestive states where they can be made to believe
anything blindly. Think: what does, "bin Laden did 911"
mean anyway? You should know of what I'm trying
to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.

It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars

awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Powers committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries - ultimately leading to a profitable
death for dah' winnahs.. So, they, the BBC-NWOers
just needed to avoid the bath or shower,
humidity, Pepsi's purified bottled water product
lines, koolaids, swimming pools, Jacuzzi, Hot Tub,
Sauna, private Whirl Pools, and.. blh blh blh

The U.S. Is Required To Bring George W Bush & Donald Rumsfeld Before A
Court! U.N. War Crimes
http://www.youtube.com/watch?v=BRAlqkPbjP0

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.

Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

Turley: Obama 'accessory' to war crimes if no prosecution
http://rawstory.com/news/2008/Turley_Obama_accessory_to_war_crimes_0127.html

Understand, Alex Jones doesn't want Justice
for Americans because he loses out to better
men that usher a greater life. He doesn't want
the evidence of George W. Bush made public to
defend American teen soldier's lives. The true
fascist Alex Jones, who in silence supports the
escape of Bush for treason, will fail our true
voice for Justice in our times. WE DO NOT rule
the truth we share equally committed to defend
ourselves from lawlessness. And you'll never
rule my right to speak freely over your intent
to sell us all out for monetary swindles, just
like Ron Paul did. Understand: Ron Paul doesn't
even acknowledge 911 was an inside job, or, that
Bush gave zero evidence to form Your opinion.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

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Israel to be Judged - Universal Petition
http://www.tlaxcala.es/reponse_signataires.asp?lg=en&ref_campagne=10&Page=1

The demon LIAR zionist Israeli is a godless enemy
of Humanity, much like everyone at Foxnews, CNN,
BBC, and the CBC. Our revolution against the godless
bushite shills, will not allow our revolution
through speaking honestly, (to become of ourselves
something greater), a chance to be televised for
our benefits. Bush closed criminal investigations
immediately after 911. According to the FBI and
Senator Daschle. CNN says you have no power, Foxnews
says you have no power, the BBC says you have no
power, the CBC, the same, like Alex Jones NWOers...
but well, don't believe it. YOU Do have the Power.

We must demand open communications to bring back
values WE ALL would agree to through polite debate.
"Conservatives" don't want this Freedom idea
expressed in general terms because, a "conservative"
is universally, minimally. a bigot. Why? Life isn't

like, their way, - then- all other opinion under
the sun on how things actually get done. (Aka
"socialist" traffic light repair men, or "liberals"
who want to treat The People fairly). Or who we are
as equals to our laws fairly practiced. Pay attention
to what I am saying here. Liberals can be Dicks with
a capital D too of course. But a Hannity couldn't
survive 2 minutes with me speaking on his very real
treasonous behavior in OUR public arenas. Behavior
done to escape the 911 culprits from the long arm of
the Law, with his conscious will of criminal deceit
exposed, we all learn to better defend ourselves.
And Shawn Hannity can't have that for ourselves, he
takes too much money from ourselves as talentless by
keeping US in the dark dying needlessly for traitors
never elected publicly.

Who am I you ask? Johnny Law. at your service. Look
me up with usenet to discover, we live in a world of
idiots everywhere pretending to be somebody by lying.
While I want US all to truly improve our condition by
actually understanding how bad off we are by failing
to respect ourselves for correction. Too many, know
it alls, with not enough to know you need evidence to
form a guilty verdict against an accused man or woman.
Not according to CNN, CBC, MSNBC, Foxnews and the like
however. Let's change this by supporting my challenge
for top billing at the Coast to Coast radio show hosting.
Look for me coming soon!!

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the
view count? What is this business of a=a+1, the
top secret, I'll go rhythm, that is way beyond
our comprehension in it's scientific complexity?
For Americans, okay, but the Human species just
isn't this dumb.

While Zionists OFFICIALLY target Christian school
girls for mass murder, CNN instead reports that
bushite grunts attacked girls in Afghanistan, posing
as Taliban. I WILL every celeb at CNN to be arrested,
tried and executed for the reporting they have done
today without facts. Remember: the Taliban played no
part on escaping those responsible for 911, and opened
schools for girls, and were brought together on the
single purpose to defend women. Death to CNN reporters
to LIE for killing OUR school girls. I HATE zionist

enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US
officials from torturing but it does not ban any
of them, himself included, from sponsoring torture
overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants
the death sentence under Reagan's "War Crimes Act".
SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close
Police investigations immediately after
911 (obstruction), or that WE have video
of iron flowing like water that PROVES,
without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with
all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice

I am a defender of
all that is right and just in this world,
because I don't need to lie like Alex does on
a huge host of issues. I'm more like Jessie
Ventura, in where I don't need/want to lie.
If I end looking foolish, (of which I like
never truly am), it's a benefit, because that
way, I've learned something. Alex knows
everything already, and 'is always right'.
Like I say Retarded. You weren't right by not
understanding that the banker doesn't cover
the loan. One example of easily hundreds. He's
a typical, he knows it all, know nothing dumduk
American. Hear him on health care speak as
Ron Paul does, and know, I defeat them in under
ten seconds. TEN SECONDS. This is why he hasn't
in years, allowed me to speak more than five

or six words. He's rather all America die, than
admit he does NOT rule our 'Ocean of Truth'.
I want the challenge of opposition through debate
to PROVE my skills beyond reproach. Alex,
every time, just hangs up on anyone who tries
to improve our communications by factually
speaking. Why? Because he IS TRULY deeply
ignorant on what freedom or Justice means. Why
we have law. What a consensus is. Allan Watt is
severely disabled in this regard, another Alex
Jones favorite. And this is why, Allan can't
take calls openly either. He has jerked off
with himself too long to quit now learning
super basic precepts, for like Alex, he "knows"
the inner workings of the 'genius' NWO elites.
Not Law 101, not Bush, not Rumsfeld, Not Condi,
not Torturers, not bank robbers, rapists, or
even petty thieves. Allan Watt isn't a bad guy,
he's just a chauvinist pretending he actually
knows something, when his real disability is
directly related to his absence in understanding
understandings. Doubt is a near foreign concept.
A challenge for Allan: can you get your 'genius
mind' around the fact that Peter Powers did the
London bombings, and not the Illuminati of 1463?
and if not, why are we so dumb to our present
plight that way? Don't get me wrong, Allen has
much to offer, it just isn't the issue right
now on saving our dying futures. Maybe I was
too hard on Allen, he is really actually kinda
cool. Alex Jones too has many incredible
moments of ecstatic clarity increasing in all
they joy of seeking enlightenment. .. Ok -
but this is serious business that requires
little dilly dally with what we'll have as
a side dish in Paradise Lost. We are talking
Human Lives have been destroyed by our inaction
to remedy these failures to communicate
effectively. and.. Jeeze, the weight of my
responsibilities, as just plain John, being
a/the Legos Man - for like the Family and
everythings, get's me never forgetting, all
we got are these words left dormant from the
power they truly possess in the minds of the
jack-asses. And.. here I am. I'm a Talker of
Words looking to make a break in the
NewZbiZ. Zzzz... Alive We Say! Alive!

King Johnny, from Earth, has come for talks.

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The Zionist enemy, the most evil nazi sons-of-bitches
who openly advocate tyranny and oppression through mass
murder of ourselves as the innocent left targeted
defenseless. Enemies of Jews everywhere, the Zionist
cares not for facts on who's Life it destroys for stolen
gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so,
why not demand the arrests of those who
broke the truce, and murdered innocent people
indiscriminately, on plans more Jews would
die for cash profit? Profit paid for by
zionist amerika? - the false imprisoning
torture and rape center for Neocon
Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival
-in-brussels/

"We believe there were dozens of IRGC
personnel in the Gaza Strip during the
war," an Israeli source said. "Some were
killed; others went into hiding, and
others escaped."

See? the demon enemy of God speaks no
evidence as a TRAITOR to every Jew. A terrorist
nation that still steals humanitarian aid in
our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Where are the Americans asking for the
formal arrest of Bush for high treason?
Whoring for Alex Jones's contempt for REAL
Justice? The ignorance of all American
talk radio hosts speaks for itself. NO
knowledge on why acts of high treason, are
crimes against every American. The bushmob
doctored the NIE, and Alex doesn't want
Americans to know, because if they did,
they ask, why does Alex do everything he
can to escape those personally responsible

for 911, while then asking for money to
continue his fight against freedom in
America. Again how much money do we have to
pay Ron Paul or Alex Jones before they
will allow the knowledge of the Iraq war
against Human will is criminal? How much?

Obama! feel free to call
on me to help out with a plan for judicial
actions. That offer goes out to everyone in
Palestine, Canada or Britain too. Russia,
let's help out these fools by freely
communicating, what say you? Justice
for all is freedom to be. The Israeli cop
killers must be brought to justice for war
crimes. Those cops, were cops. And I,
am a man.

Alex Jones Rocks!

Now Alex has problems in "my" mind because I am
an ACTUAL genius, and he is generally, an idiot.
Today, he did one of his usual commentaries, however
this time, he was pretty honest with himself, and
his love for Ron Paul. Ron Paul sells incompetence,
and Alex corrected correctly!. that a.. sorry Ron
but these banksters know they're robbing us as
undefended blind men essentially. That's what I'm
talking about!! Look, Ron Paul can be a dumb Ass,
although, he's still not all that bad a guy. A Dumb
guy on things like economics sure, Justice, warfare,
Health Care, Social Security, ect. ect. but still.,
like a child learning of why the sky is funny
blue, isn't all that bad a guy really. He's
certainly not a war criminal, like Bush or
Rumsfeld are. Doing 911 then sanctioning torture.
While Neocons Champion sending illiterate American
teens for death as war criminal. Think about it.
Maybe he is..

-

ï¿½We have all these documents that are now
publicly available that prove that these
methods of interrogation were intentionally
ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy
like Willie Brand "the right" to RANDOMLY kidnap
men, women, or children, and torture them to
death for sadistic pleasure with his
Capt, Christopher Beiring. (I think that's

how it's spelt). But anyway, this is the truth. A bushite is a godless Zionist whore of Nazi evil, an enemy of America, who wars YOUR Freedom with criminal "excuses", for refusing to support the arrest of those responsible for 911. A TRAITOR, and could be wannabe rapist, robber, or 911 mastermind ringleader. Torture is illegal, and warrants the death sentence, according to, Reagan's "War Crimes Act". Some only suggest, that this was why someone tried to kill him as honorable. Death to the torturers of our innocent families, torture they do without apology as Zionist Military "Judges". Instead today, where they get salaries paid in the billions by the zionist giving nation of, a-mirror-kay, echem, America. Johnny's America. A nation where Justice will rule for the favors of all treated equitably with or without you. Honor me in company my friend. We have no rivals.

"they do not understand, the private banker never covers the loan. Never does a private banker reach into it's pocket to borrow US to begin with - so as a consequence, the bankers have just pocketed all the 'free' loot for nothing, TRILLIONS, and are not saying why should they help anyone else up with charity?" Then went on to say, it wasn't any of our business with what they did with the money. (But for to cover criminal fraud in the derivatives market, where the true value of said commodities were backed by ZERO capital. ZERO DOLLARS. WORTH NOTHING. So, think about who's truly giving it always here until Johnny, the man who came out of nowhere, arrived to explain everything in five or six minutes.

Support Johnny America for Coast to Coast Radio Host!

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Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoot-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen for death by war crimes trial more like. Death to the criminal zionist enemies of Humanity. Zionists who falsely accuse without evidence to respect our rights, like TV corporated Americans who treasonously LIE,

'bin Laden did 911'. Enemies of Freedom for our
Humanity.

[JEWISH!] Arrest warrant: Ehud Barak
http://www.wanted.org.il/ehud_barak_en.htm

/ / For violations of the Rome Statute
& 4th Geneva Convention \ \

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..
let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our
times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for
'lawless' grunts of ungodly action against

Life as we live it. Targeting school kids
deserves death sentences, don't you think this
value is what every soldier should hold proud
with Johnny in America? In Israel? In
Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

This post was passed to near everyone in our Secret
Service defending Obama. Let US demand Justice for
the Victims of 911, by warranting for the arrest of
every Neocon Nazi Zionist pirate of OUR Jewish faith
for Public trial on LYING for War Crimes against
our dying Humanity. War Crimes against God.

A ZIONIST LIAR'S TRUCE

/ / live images of an Israeli helicopter hovering
above the city and dropping its white phosphorous
bombs on the city \ \

Again, the Zionist deserves to die by public trial
today to defend the Jewish faith. Look at usenet.
These demonic enemies go, 'yeah, Hamas broke the
truce', they do it to kill you. To steal the lives
of innocent Peoples to profit off our deaths as
victim.

Zionists are Satanic Demon Liars of Satan

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed
Jews for money. They starve Jews in Israel
to attract more charitable aid they can use
elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of
the Synagogue to Satan!!

"We also need a massive overhaul in Our news channel
prioritizing, including to add censorship free, open line

public communications. Done to gain value in learning from
the art of conversations. We need still to appreciate the
values of a free society where Justice is above all, the
measure of our success to communicate openly."

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and
still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

-

The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as
evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,
are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among
our brothers and sisters. I mean for Christ's
sake Tom, THEY ADMIT to sadistically
targeting our children for MURDER - as some
kinda Satanic demon whore to Pure Evil - aka.
Wanted War Criminals for Public Trial. Just
as the Nazis were for similar outrages. Let's
hope men of America are least half they were
then, but we are suspecting, they will as of
usual, balk as cowardly slaves to the private
banker man ruling their minds, it's a, no
wonder. Where is there that purpose striving
for a greater future living in a just society?
Where is the Christ in their Christianity?
to financially support the arming of such
unlawful Zionist killings in silence against
Innocent Christians?

Free Radio International Broadcasts Alive!

Johnny Justice for Coast to Coast radio host.

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's
verdict, if none is offered as in respect
for yourself as worthy the title of free
men? I ask as your self? Or are you as
the cowards of most in the American military
who refuse to speak for the arrest of those
who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they continue
to STEAL OUR CHARITY by breaking truces. What
is it that YOU can't picture?

"The view from the other side, that the Qassams are a retaliation for the siege that starves the one and a half million inhabitants of the Gaza Strip, [a prison death camp,] was not mentioned at all."

Masada legend galvanises Israel
http://news.bbc.co.uk/2/hi/middle_east/7830416.stm

/ / they committed collective suicide - men killing their own families, afterwards each other, until one [evil zionist liar] remained to kill himself. \ \

ISRAELI IS A THIEF WHO CAN'T SPEAK OPENLY IN DEFENSE OF OURSELVES IN OTHER WORDS? That is right. They, as documented criminal, lose every debate personally since before the dawn of Civilization because their position is clearly unsound. They are criminals who murder People in hate for a freed Humanity. They OFFICIALLY steal Peoples homes in that country didn't you know they proudly proclaim it so? And steal humanitarian aid from starving children. Targeted to murder children specifically as publicly confessed, 'it is Hamas WE blame', not them as demonic child murderers. Hideously evil as ungodly sadistic savages. Enemies of YOU, enemies of them, and enemies of me, the King of Jews Christ fellow from beyond the grave. They are so evil to God and Man, they tarnish everyone of US to not win justice sooner by blaming the actual bad guys. Justice is Freedom.

/ / Those white phosphorus shells used on the Gazans are made in the USA according to Jane's Defense. \ \

Again, these peoples are not Jews. Being Jewish is a religion. These thieves of God are Satanic in their LIES to betray the common trust in our words, that bind all worlds to victory, called freedom universal. Even tales of the Devil have him keep his word, with verses specifically condemning the self to damnation for targeting the innocent for death. God's the Word. Every word inside a fool's paradise. Including the periods. Not as like, I'm playing a word game, but that it in wonder, is all strangely here. Example: The Universe as it has existed always, is not separate from our 'pauses', or faulty drawn conclusions. The universe, in one sense, was

as good as anytime, created 6000 years ago.
AS TOO 50 billion. You say, impossible, I
say no, study quantum physics, and know, I
live this.. our existence is not scientifically
separate from the timeless nature of
consciousness, proven as not only theoretical,
but actual. That is a first step at developing
a REAL relationship with the living Universe
if you want to as like an artist does - that
TOO! can be just as thought static in it's
orderly constructions for Atheists. (An
Atheist is still mostly a fool here however.)
Overall, for any, it's sorta simple: Life has
left YOU in charge of YOUR fate. Now, do well
to make something of this being as eternal Life
reaching for balance, as your body does, and
good cops do when bringing the bushmobsters to
Justice. By Israeli calling for more murder
against the innocent of your mind as racists
and bigots they are openly, is still shadows
of YOUR mind, YOUR WORLD.. get it, got it? God
is in genius to set Life as this, as like,
nowhere existing, but for as yourself within.
Will you speak out for the Justice denied
Humanity?, or not you? Atheists can be Just
too!, but generally lose it on not
understanding the intelligence of order is
way beyond what they dream up with
assumptions. All anyone has to do is ask
themselves, who do you mean "God"? Atheists
are ridiculous!, but, to each his or her
own, we are on a path here, believe what
you want to believe. This is not a faith
initiative I'm bringing by keeping this real,
I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder
Jews around the world for stolen money is
seriously evil as criminal. What do you think?
Let US have a open line discussion on this
indivisible matter of rights to all as equals
before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM"
we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed
Jews by breaking truces with a prison death camp,
cause look at all the free American Welfare money
we can steal through kicking-back AIPAC members in
Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line
calls on the war crime enemy propagandist,
The Chorus Radio Network. CJOB STEALS millions
from Manitoba each year, and refuses all calls
for honesty in governing. They are actual
CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal
who will be going to prison, is the only person
on Earth that has publicly okayed Israeli Nazi
to target murder Christian school girls. Canada,
join me in demanding Harper's Public trial as a
war criminal. Prison for Harper who took a
honorable soldier who stated he refused to commit
war crimes against innocent civilians, and placed
him without trial in prison. Without warrant for
arrest. Harper, the Nazi Appeaser, is a War
Criminal standing against the Queen.

"Or is this another, popular amerikan past time,
of, who cares for the facts, we are at war with
God and Christ now?" Die bushite die Christ always
says against lawless torturers as mass murdering
thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest
of the Judge and prosecutor for being openly
evil demons, as TRUE enemies to freedom in
America. But guess what? Americans will refuse
to even phone Alex Jones, or George Noory
to be hung up on. Just refuse as brain dead
zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic

of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?
Like multi-millionaire Ron Paul, who gave the
fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty
International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting
to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.
They will rob and kill US all my INNOCENT friends
as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

Google have attacked US again as Evil doers..
They have again destroyed my writing with war
criminal intent to deny these truths as men they
could never face me, because they are not. They
STEAL our voices.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil
as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unb
alanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the
days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews
like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the
eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was
137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying
freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the
free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for
senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

-

I Want My Bailout Money by Michael Adams the Health Ranger
http://www.youtube.com/watch?v=dnT21hmlT4o

Breakdown Dead Ahead
http://www.youtube.com/watch?v=yFCnVC2C8As&feature=related

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Simple Common Sense for Mankind

/ / Israel has admitted HAMAS kept the cease
fire; and that Israel broke it, then unleashed a
total starvation blockade on Gaza followed by
flaming death from the sky aimed at schools,
hospitals, ambulances, and children, and you
dare call the people opposed to such barbarity
a "mob?" \ \

Zionists are evil people who pretend they
are honest, when lying directly to everyone.
Blitzer reports Hammas broke the truce, he
is lying to continue the murder of innocent
peoples. Understand: Israeli Nazi state they
will continue to murder our innocent Humanity
until the rockets stop falling on Jews. Yet,
they broke the truce, and murder Jews routinely
with reckless abandon. Jews from the Bible as
of "nigger" Ethiopian, are what the Zionist
hate when warring GOD for apartheid, apartheid
that is Humanity in Gaza. A zionist is a war
criminal who speaks not against the neocon,
but against Innocent Humanity as YOUR enemy.

Livni: Gaza truce would give Hamas legitimacy

As they always do because they are dishonorable
murderous nazi thieves of God as Just cause is.
I am, and YOU are, you just maybe don't know it
yet, or if ever. A zionist serves Satan to escape
the neocon terrorists from their ungodly crimes
on 911.

http://desertpeace.wordpress.com/2009/01/12/gazatoon-of-the-day-blaming-the-victim/

Ron Paul:
US Will Be Rightly Blamed for Israeli Killings
http://www.youtube.com/watch?v=6C756NOPyDA

Not the Nazi Israeli?

The guilty party are those who advocate these
mass murderers of innocent peoples with
deliberate lies, like from Blitzer. Blitzer
will be tried, and executed a war criminal
for stating Hamas broke the truce., Where,

only two minutes earlier, he learned, that
it was his Nazi partners. DEATH SENTENCE.
It was on TV. BUT SEE? Ron Paul, the Libertarian,
ain't going to be honest here. He'll lie cheat
and steal Humanity's voice for Justice - like
he did with OUR money. A typical Libertarian
like Alex Jones who wants to blame "socialists",
"Liberals", aka, all of innocent America.
Blitzer is war criminal, who makes his own
discussions. As is Ron. What an enemy to not
mention the truce. THINK: IT IS THE ISSUE. But
Ron plays the dummy to kill more with contempt
for Freedom. Ron Paul, the bigot, asked,
'should we be doing this'? SEE? it's not first
degree mass murders, no, according to Ron Paul,
it's argumentative that indiscriminate mass
killing is a good thing really. Remember,
Ron Paul does not support arresting those
who committed mass murder on 911 either.
Or those who STOLE TRILLIONS. Or lawless Bush,
the ACTUAL AntiChrist enemy of God. Ron Paul
will watch America die for a stolen dollar.
And Alex Jones will refuse all calls to label
him good guy like himself warring order
to our universe for it.

Israel is [NOT?] responsible for these childrens death
http://uk.youtube.com/watch?v=Y9PIZQqIep4&feature=email

Ron Paul "When we pick sides, we make it worse"

He also took our millions donated for freedom
fighting away for his family, but not our own
as dying innocent victims giving. Pick a side.

-

Contribute to our rise for the popular will

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they STEAL OUR
CHARITY. What is it that YOU can't picture?

Hi. My name is King Johnny.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

-

/ / The targeting of civilians, whether
by Hamas or Israel, is a war crime. \ \

They are targeted by Obama who suggests
there is an argument to be made here. There
isn't. Nazi Israeli DEMON LIARS broke the
truce to kill Jews for money. They are godless
enemies of Humanity. So it isn't that we are
pro-Palestinian, it is that we are pro-Human.
Zionists DESERVE to die, before US, the innocent,
they target for murder for stolen cash gain.
Like Obama has promised to do for AIPAC. But
what about the rest of US 6 billion plus Obama?
Who is it of US innocent folks do you wish to
MURDER, or torture next as a Zionist war criminal
for Satan Obama? Torturing kids is popular in
Israel, tell US Obama, which American father will
have his children tortured, or murdered
sadistically by yourself as a whore for Nazi
Israeli? tell us, we're not waiting.

The Chosen Bad Example

Zionists Destroy Our Homes as Satanic
http://www.youtube.com/watch?v=mo2HW4T7wK4&feature=related

When I see the women and her child, left outside
while they sadistically destroy her meager gains,
I grow weary with ourselves for not speaking right.
Nazi Israeli are committed to deny US our God given
rights as Innocent persons to speak freely for Justice
realized. All because they STEAL our Lives for monetary
gain. It is our reality, give it or take it, YOU LOSE.

Then.. Hammurabi founded Civilization.

I go concerned for any hesitations of condemnation by
Obama. It's like, he's talking some jive about
how now he'll NOT let the words of Hamas reach
his ears. Being against war criminals, doesn't make
you pro-Hamas, necessarily, it means your against
war crimes to defend the lives of ourselves respected.
Remember: He told US earlier during the campaign that
he wouldn't fear speaking to anyone, Hamas especially,
because he was confident he could win the discussion on
Liberty, by principles that unite all free men. Now,
he has promised the FBI's Most Wanted AIPAC, he will
pretend to not hear any calls for fairness as all
parties united by common cause. Johnny Who? Where did
you go Obama? You were here, then.. pooof! you
vanished into the loving shackles of convicted/ing

criminals is a mass, "WE ARE TRAITORS TO JUST CAUSE"
organized war crime outfit, dedicated to deceiving the
Public by lying. I am not Lying. I'm not saying I hold
his associations as a measure of himself, I am concerned
with him stating, he will not hear our cries for Justice,
as then AIPAC cheered. I was as freaked out about it as
you maybe yourself now, believing it as possible. Check it
out for yourself, and wonder, just "who" is this person
they tell us they're are going to take for as dying fools?
I mean look at what happened to what's his name, when he
sided similarly the same in error as hugely criminal? Come
on be honest with us son, "Are you on drugs?". Maybe he's
just been stressed with all of everything he is heaped
to follow on, NOT to know by Blitzer, that Israeli broke
the truce to kill more Jews for money, and, also STEAL
innocent Peoples Homes while saying, "they are God's
Chosen". Yeah, chosen for, "The Bad Example", of how
Jews are left undefended by these grave robbing war
criminal nazi forces. As the King of Jews, I call for
Public War Crimes trials of the entire bushmob as
terrorists, and their supporters for lawless tyranny.

People are Coming to Town. Justice for All Coast
to Coast radio broadcasts all, until we have secured
the neocons in a prison cell awaiting the treason trials.

We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

Nazi Israeli STEAL Peoples Homes without
apology, as a function of their SATANIC
government, while collectively bombing the
INNOCENT victims who die because of it.

Gaza 2009 - Operation Cast Lead
http://www.youtube.com/watch?v=hFEiOfLUfzY

Again, they are Satanic here because
they THREAT to tell you, yeah, Zionists
are casting the leads for the real mass
murder scenes - Justice denied Humanity.
God doesn't exist to defend yourselves
from war criminals for Satan.

War crimes trials with public executions
will commence against ever GUILTY zionist
living to lie that Hamas broke the truce,
that Georgia was attacked without provocation,
(again, CNN are not 'accidentally' conning

US here). And trials for every last living
bushite bomber, rapist, and torturer -
death to the bushite, the true traitors who
war against freedom for America, traitors who
war Innocent Humanity for the escape of the
neocon zionists.

-

Both parties cheerlead loudly for Israel's war Against Humanity
http://www.salon.com/opinion/greenwald/2009/01/08/israel/index.html

Death sentences MUST be willed by Christians for war crimes.
Death to the bushite, death to the enemies of God and Man.

-

For the Great Truths. We Stand United

/ / This option is also regarded
as a non-runner as the US would certainly veto that
suggestion. \ \

No no no no. What you do is investigate who this
the "US" person is as the GUILTY party my friends.
The facts have spoken for ourselves without contention.
And while we're at it, try to figure who that "Army
says.." person is too, we need to know who these
traitors are who hide their names backing war crimes
to continue. The Enemies of Civility, they are
enemies of US all my innocent friends, enemies of US
all.

-

Here on a Mission

/ / after dropping leaflets warning residents it was
about to "escalate" its offensive against Hamas. \ \

SEE! This is AFTER fire bombing the whole community.
Satanic evil enemies of Life. Who admit to targeting
any one who has ever so much as swept our streets,
warranting bombs dropped on their Block(s). SEE! they
are ENEMIES OF EVERYONE. EVERY LAST ONE OF US.
INCLUDING GOD.

It's a prison death camp, brought about by Israeli STEALING
OUR Homes as ungodly thieves. Thieves who leave a Jew
to starve to death in a garbage dump because, it'll
attract more charitable aid The Zionist can use
elsewhere. It's not a Jewish thing, it's a criminal
matter. They STEAL innocent Peoples Homes in that
country. God's Country? God would will such criminal

offense? Which God? Not the God of Abraham, nor by
the teachings of Hillel, Christ, Mohammad, or
Confusion? So which absent God do you speak where WE
can't speak as ourselves openly for Just Cause?
Cat got your tongue? How come your not saying anything?
The Israeli Zionist ENEMY wants US ALL in slave
labor prison death camps silenced away that's why!

Israeli War Crimes
http://bothwell.typepad.com/whos_your_nanny/2009/01/israeli-war-crimes.html

Well, maybe I'm wronger on Ron Paul than I needed to.
Hey, don't you EVER forget, I am a man also. We need
to meet on common grounds, to demand the start of
formal arrests for the bushmob crimes of 911, Iraq,
Afghanistan, South Osettia, and Palestine, as a group
together united by agreement for this one cause, and
then... we can later argue about how your ideas are
better than mine because I actually know of which
your speaking.. Hey! you could call me Daddio if you
wanted! To the telephones we go.

-

Israeli are attacking prisoners held criminally
in their own Death Camps!! GET ALEX JONES ON THIS!

Hmm... why wouldn't Alex? to support his fictions
over Our Rights to Live Free perhaps? A Hero adapting
to the deaths scene?, or, a Bush whore committed to
enslaving Humanity, all so he can say, he told US so.
Big hero or big hero. Your NOT powerless to his vision
of complete control over information. He refuses 911
info, Iraq war info, Israeli info. All so he doesn't
have to look the fool, while Humanity dies with his
insults against our wills to make something better
of ourselves. Justice is what I will. Masturbate on
your own time Mr. Alex Jones.

If he states again about how he knows everything,
and is always right, and those that criticize
him on ANYTHING are delusional, it's going about to
make everyone further sick with this obscene take on
what life means as Alex takes it. If I truly state
two nickels make a dime, does that mean therefor
they make a quarter also? If I say so like Alex
would? He is an idiot. Truly. George Noory figures
Hamas broke the truce, and that the Mideast solution
is that Jews should be separated with special rights,
as oppressors over the freedom of every Palestinian
Prisoner, and what's Alex Jones gonna say about
his 'truth telling freedom fighter' George to actual

'lame ass evil nazi traitor' George?, to YOU about how George is just trying to murder millions of helpless people as an offer for the final solution? We can expect Alex now to claim, Zionists should have special rights over Jews, all to maintain his FICTIONS on Noory being anything but the monster to Humanity he is. Just because Noory doesn't growl when talking about murdering all children in around the age of 15, or against soldiers who refuse criminal orders, does still make him a true fascist nazi enemy laughing at your murderers escaping to live freedom in our dying forsaken worlds. The bushmob doctored the NIE. Conned Congress, and Soldiers. Did 911, by closing criminal FBI investigations immediately. Alex and George don't seem to want US to know these FACTS that demands arrests of the culprits responsible for high treason against Johnny's America. Now, who's with yourself. I am! I am! I am!

Alex Jones doesn't know squat of Social Security, but pretends he does, like Ron Paul does when speaking of the Federal Reserve, Health Care, IMF, World Bank blahblahblah.. I mean even the expert of experts Alex has on near twice a week, EVERY WEEK, to talk all about how the Illuminati are doing everything,(give me your money now for whatever), DOESN'T SAY TO KNOW, it was Chris Cox who changed Investment Banker rules, to cover instead one tenth of WORLD INCOME loans, to one twentieth. MORE THAN DOUBLING THE ENTIRE GLOBAL MARKET FOR LOOTING WITH HIS SIGNATURE! (And. that isn't even a fifth of the TRUE trillions dollar fraud story.!) Now, granted, I wouldn't expect one tenth of one percent of America to have even a distant clue of which I am speaking, but importantly, Alex's expert of experts has never mentioned it. EVER. Why? He don't give a fuck, but how much money he can get you to give him for investing in things that are un-important to our struggles, but for the fact, he states, you'll get free money for nothing!! OUR ACTUAL PROBLEM. It reminds me of those Ron Paul dollars... where Ron'll fix everything, cause we, as a private company, are going to make YOUR money instead... holy fuk mon.. Talk about the kettle calling American racists. Thank God the FBI stepped in. (The answer unfortunately is not nowhere as easy as Alex would blindly lead you) - again, so I guess it will be, Americans were just too far gone as illiterate chauvinists, who cared too little for your freedom as themselves degenerating. Why? To battle tyranny they

knew not Justice wins the day, and blamed innocent groups gathered wherever, instead of following the crime scene leads at the real murder scenes - like was once done on TV and at the Movies. But even that was too far above their doped down heads, to raise their finger to dial a phone number.

How about stating "A lawless bushite enemy wars America as a traitor, to escape the neocons from the crimes of 911."

Then Alex states the head of GCN is giving out gold at less than it's value as a special treat, every second or third week. Below wholesale. Now, really think this thru. Do you think Alex is trying to con you here? you bet. That is the Gold Racket. Diamonds are another thing - where I've personally seen, about a decade ago, a huge press that makes Diamonds out of coal. Swear to God it's true. Costs to make diamonds are pennies to the thousands paid to Zionists who live in Israel calling for the murder of all innocent Peoples. Where is the rich Zionist, grave robbing Jew hater to demand Justice for our times? Where? Pressing coal into diamonds, while advocating the murder of our entire Human species. THEY WANT TO KILL GOD AS SATANIC ENEMIES OF LIFE. While I am last known to Life's enemies as Jesus Christ, the Zionist's end every time. I'll have brought more Zionists to their rightful dooms, than any other, of any time, anywhere. I HATE Zionist bushite LIARS to death, all because I Love Humanity too much, to watch US die undefended as the innocent forsaken. They can change their evil ways, but till now, often not, benefiting off our suffering as war criminals who simply lie as demons to steal our Human values. Let's change this for our betterments. I mean the Halo is a dead give away..

The head of GCN has a son warring God to rape American women as lawless enemy in Iraq for the Neocon - again NEVER mentioned as something worth fighting against for Freedom in America - soldiers are suppose to REFUSE criminal orders - but not when Alex is at the mike. He will never mention the Bushmob doctoring the NIE to con America for death as exampled, because it doesn't fit his fictions, where all the bad guys escape because they are geniuses headed by secrets so powerful, nobody can ever know'em, except Alex. He tells us near every day, he knows everything already, and is never wrong, therefore you can't criticize him. Bullshit. It's like he wants to be wise like Johnny Gawd is, without doing anything like

studying for a test where the teacher actually does know the issues. He told US today, the British came up with concentration camps, from the Indians - who spent all their lives murdering themselves. The British 'invented' false imprisonment? The British came up with the, Jews Killed Jesus? The British invented Pope Gregory VII? I suppose Alex has never heard of Ghettos. SEE? he just pulls shit out of his ass, and calls it like it's truly pure gold you'd wanna buy. Those, like your typical American have no clues, so they figure, Life must be sorta so that History is all one big Alex Jones NWO cartoon. What? that the NWO did 911, and everything else that use to instead, require criminal investigations to nab the actual evil doers? Alex Jones IS the NWO he tells US all we should be concerned about never stopping, like it was in the DARK AGES. Justice Alex, why is that hard for you as a "Conservative" to figure? Is it because you are cowardly in the face of true Liberty? Afraid that some People, on some Issues, ACTUALLY know a great deal better than you could even imagine presently? Don't like that do you?, where you don't rule this Universe as a lawless tyrant desperate to live in an illusion at the expense of everyone else dying victims to censorship? Does he try to find wise men or women? rarely. "Ron Paul [MUST] leads our truth movement" - like, fuck off already with the Ron Paul, The Truther, Bullshit Alex Jones. 1% is what YOU get on Social Security deposits - 1%. And.. Bush stole 700 billion. 700. Billion. That's 700 BILLION. It's a "Trust" account. A "Trust" Account. It's being held in "Trust" Alex. Ron Paul is asleep at the wheel. As, so are the rest of all you other fools.. I want Justice, and I want it now for all the victims of 911. Americans be damned, we want Justice, and We want it Now.

In Texas, child rapists are given the right to freely move about without fear that Texans will stand as armed Men in defense of their very own offspring. And Alex wants this for the rest of America. That some how to own a gun, means an American would kill a cop who beat a women near to death for pleasures that he could never be Publicly arrested for, as a sadistically evil nazi bushite fuck. Look, if YOU DID kill that particular DEMON COP after the Chief refused to arrest him, you couldn't possibly go to jail in Johnny's America, because the truth would win out in a fair verdict. And REAL cops would honor you with great big, thank you. Nothing worse than a

cop (or bushite grunter) who believes the Law doesn't
apply to him while he drives drunk, tazers someone for
nothing, abuses Women, or kids, to sell drugs, or
kills good cops, who are good men. (Like mercs do in
Iraq officially for Rumsfeld's P2OG. Coming to an
American city near you!)

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

"Rice says it is 'hard' for Israel to spare civilians in Gaza"

We KNOW they are ONLY targeting innocent People,
the ungodly zionist Satanic enemies say so..

"Israel Rejected Hamas Cease-Fire Offer in December"

Livni has declared her country "is not going to show restraint"

"Her" country?

It's like she's admitting here, that they DO NOT
target the IDF's Hamas, but only our innocent lives
as a threat to LIFE and GOD. Remember: the Zionist
LIARS broke the truce.

THIS NAZI ZIONIST FUCK BREATHES THE AIR OF US
http://www.youtube.com/watch?v=lMxfEsooM5M&NR=1

/ / So, Hamas decides it's time to end the
cease fire and has begun shelling Israel again. \ \

This guy even sounds like the Satanic false
accusing enemy of God he is. Let US, as Humanity,
hunt these real devils down, try them, and have
them executed publicly for the benefit of God and
Man. Understand: this REAL DEMON knows he's lying,
no living man on Earth could spew the vile lies he
does to excuse indiscriminate mass murder, or starvation,
as this Zionist enemy of life sells to STEAL Your
HOME, your Family, YOUR LIFE. An open enemy of God
trying to STEAL the Title of Jew from Christ. EVIL
ENEMY OF LIFE. See, when a bushite dies, you served
Life well in defending their next INNOCENT target.
BILL HIM FOR STATING ISRAEL WAS STRUCK THOUSANDS OF
TIMES. BILL HIM FOR STATING HAMAS BROKE THE TRUCE.
BILL HIM FOR STATING bin Laden DID 911. BILL ANY
Zionist FOR THIS TREASONOUS LIE. Why God asks? Because
there isn't any evidence to support that Satanic lie.
According to the FBI. And according to God, Zionists
are not Jews, but of Satan as enemies of every life

form in this Galaxy, Hunt him down, and bill him today for the love of God. You can 'hear' it in his voice.. how he lies TO YOU as a DEMON of a Hatred for Truth and Humanity. Facts, that are easily available, are not what he works to mislead others, others he hates, and wishes to murder for as ungodly sadistic pleasures as YOUR enemy. Bill him under American law for being pro-torture too while we're at it. Death to bushite, death to the murdering enemies of God's Love for Mankind, and enemies of TRUE Justice for Americans. The fuking demon enemy lies to you, as a con to STEAL your life, or just as soon, the life of another innocent other. Now, what are you going to do about it? Except his lies as exceptable, as he tries his hardest blatantly LYING to kill God and Justice in our Worlds? Not in mine, but perhaps Yours.

' In Civil-Contempt Cases, Jail Time Can Stretch On for Years for Americans, without Ever seeing a day in Court. '

Where are the arrests?, then firing squads for the Judges who 'judged' such criminality against freedom for US, the Peoples in America?

' Where Did Taxpayer Money Go? Panel Slams Treasury [FOR STILL REFUSING TO SAY] '

Where are the arrests?, they stole eight trillion and counting.. And Congress 'slams' them for disappearing OUR MONEY. Slams with what?, a, don't do that again please butt sqeeze? It should be massive slammer time, with a return of all STOLEN monies.

' THEREFORE, those pro-Israel politicians in Congress won their seats in part using stolen money. '

Where are the arrests? Amerikan bushite nazi grunts are assisting in the mass murder of innocent Christians in Palestine. War crimes demanding death sentences. It isn't an argument that can be turned around. Nazi Israeli STEAL Peoples Homes without apology, as a function of their SATANIC government, while colectively bombing the INNOCENT victims who die because of it. It's a prison camp! they are denied water, food, shelter.. since four or five truces over that they've broken, every one. These are Satanic enemies, willing War Crimes against God, a God NOT loved by zionist American Nazis. And a Son as powerful as the four winds, ridiculed by Zionists, and American know nothings, for the continued debasement

of YOUR soul worth here dying.

Israel Attacks Iran News Station

Why does not Iran DEMAND arrests, and death sentences
for these blatant war crimes against Humanity committed
by Amerikan Nazi Israeli Zionists? Along with the
perpetrators of 911? WHYWHYWHYWHY. Russians! Can you
help US out?

-

THE NAZIS SHELLED THE HOUSE WHERE THEY HELD
INNOCENT CHRISTIAN PRISONERS
http://uruknet.info/?p=m50596&hd=&size=1&l=e

Rise up for Justice American Christian, or
die innocent victim the Son of God does say.

-

Pictures of Alex Jones masturbating
"we were right about it all."

It's the NWO! The Illuminati! Not Bush, Cheney,
Neocons Gone Wild, or any of many other REAL
criminals, for the war criminals are just
puppets to his EVIL fictions. Forget about
Bush escaping.. Socialists who design traffic
lights, and Liberals who will to share fairly are
Alex's enemy, because he's fearful the FACTS
would escape his denouncements against truth
tellers. George Noory, one of the most despicable
individuals on the face of our great Earth
- is exactly the kinda guy he wants returned
to send his wannabe Patriots nowhere but to die.
What about Justice America? The bushmob doctored
the NIE. TREASON. There is video of iron flowing
like water from the towers, seconds prior to
the collapse. Alex ain't there to help US, for
that is where TRUE Patriots fight for real
Justice. When WE phone with indisputable facts,
on Ron Paul the bush whore sell-out for example,
he lies to all (GOD), then hangs up on US. Is
that the kinda freedom you think the Founding
Fathers had in mind to give Your rights to
speak for Alex who blames anyone but the
criminals directly responsible for your
funeral? The private banker never covers our
loans, so why give them trillions without
questions offered without answered as, never
mentioned by the guy who is 'right all along
on everything under the sun', and.. he 'rules

the Ocean of truth' too don't you know YOU have
a steak going all rotten to hell here also?
You'd think Alex would take our call just for
the challenge on where we stand? I'm free!

He is not. And George Noory tells us openly, he's
into killing innocent kids for profit. George's
profit is that apparently, by murdering all
children in around the age of 15, will stop them
from getting a clue at anytime in the future,
to take him out as an ENEMY of EVERYONE for
censoring our cries for Justice. Why is it that
Alex would invite obstructionist, Steve Quail,
or Alan Watt, on to lead you nowhere while they
jerk off, but where we gotta go to actually defend
ourselves? Steve has been on with Noory more
than a hundred times, and, we'd figure, Alex will
soon be delving into the Alien questions also.
Answerable by me in seconds, but ahhh.. like Noory,
doesn't want the truth of such a subject uttered,
just endless streams of illiterate bushite dumfuk
losers sucking on each other. While they wrest
from US the wonder; just why we can't stop
criminals from robbing ourselves, while murdering
our families? Alex wants to blame the unstoppable
NWO, while I, want to blame those actually
responsible, like Bush and the proven treasonous,
Neocon terorist liars who are pro-torture.
With arrest warrants. All of them. I'll do it for
Reagan's, War Crimes Act, as an act of respect
for my Great America, that's isn't always been
dying dead wrong under the leaderships of
criminals.

Israel hits Gaza after UN truce resolution

/ / AP Israel and Hamas responded to a UN peace
demand by hammering away at each other with bombs \ \

The IDF's Hamas is hammering away with what at who?
Is the AP referring to the tin can rockets that
travel usually several miles, but in one case,
22 miles? To kill a Jew standing outside in his
yard, thinking on how he would defeat true evil in
his time? Tin can rockets that contain no explosive
charge? Have no mistake, if it hits you in the head,
your dead, but really, what do you think the odds
are on that? E=mcï¿½. Or is this another, amerikan
past time, of, who cares for the facts, we are at
war with God and Christ now? Joe is an American Zionist
"Plumber", who has amassed a multi-million dollar

fortune in the competitive industry by shit eating.
Every bushite death is a mercy given to God in defense
of all that is right and Just in this Universe. A
lawless bushite enemy wars America as a traitor to
escape the neocons from the crimes of 911.

-

Traitors to the Cause

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

UN: Israel Admits Claims About Attacked School Baseless

US military re-supplying Israel with ammunition through Greece

House and Senate Compete To See Who Can be Most Pro-Israel

This warrants the Death Sentence to Republicans
who have committed America to these war crimes
- DEATH SENTENCES. Christ DEMANDS these trials
to start tonight on America's Coast to Coast
radio program. It's called first degree mass
murder.

Israel broke the truce on Nov. 4th, yet state they
will continue to murder Humanity indiscriminately
until a truce can be found that they will break,
as always, Being the Satanic enemies of God and Man
according to the Bible:

The Bible "I know the blasphemy of them which say
they are Jews, and are not, but are the synagogue of
Satan."

/ / UN Call for investigation into shelling of
Civilian shelter \ \

Investigate that evil does exist in the thieving
LIAR name of godless Zionism? The enemies of God
and Jews everywhere?

-

Freedom Granted by Americans for Neocon Liberators

"Americans are having their heads velcroed to chairs
and forced to take in nutritional supplements by a
tube forcibly inserted through their noses by US guards."

These are People not charged with any criminal
offense don't forget. Die bushite die you know is
what I recommend, as does Reagan. A dead bushite

means you've saved the life of their next victim,
an Innocent Human Being guilty of no crimes. The
war criminal enemy is the bushite, the Zionist,
the LIAR neocon traitor to Life as this Universe,
along with every dumfuk grunt who serves tyranny
for the bushmob at Guantanamo, Iraq, or Afghanistan.
It is a soldier's oath to obey lawful orders only,
but Cheney they don't take out with American Law -
how come? cowardly fascist nazi whores for Zionism's
evil as the ungodly that's why. Cowards dying for
the escape of the Neocons from the 911 scene as
reported publicly. - Vs. US. That's we whoever
you are.

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever. The neoCON LIARS are the LIARS conning
you here on our TVs and Radio dramas, in where, they
don't want to openly take our public calls for real
Justice. Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression. So,
them being "puppets" is even all the reason more to
insist in their capture for trial by Jury. A Public
Jury of our Peers. Now, who's in with You? You can
count me in. and I bet willed to action, we will find
others to be something of ourselves too.. Justice
and Liberty for All. Equal rights given is what true
freedom is as measured. Translated from the 'Alien'
dialectic to Amereeze jank vibe; where is the fucking
evidence here Neocon traitors who false accuse to lead
us off the straight and narrow? It leads to Bush,
Cheney, Rumsfeld, and Condi that's why I figure, you
figure, they figure, we figure, so... what are WE
going to do about this sacrificing for godless tyranny
further then as unrepresented?

Gaza Mosque Struck as Targeted by Israel Air Force 1 Jan. 2009
(Why so you may wonder they've had this string going
now where a secondary something, then there! that proves
something absolutely apparently, without the intellect
to fairly judge anything, particularly themselves honestly
as dishonorable thieves and murderers, targeting prisoners
held hostage to their own camps. Death camps. Nazis are
they.

Humans for Coast to Coast Radio Hosts as Frequent
contributers to the mention of Justice by name. Your
Rights, Your Word, Your Future, Your Life, This World.
Join me in proclaiming victory over the enslavement
of Humanity, through Justice realized as practiced.

If Americans Knew What Israel Is Doing! VIDEO WAS CENSORED!
http://www.youtube.com/watch?v=ynWjYHP91gA&feature=channel

Views: 1,212,890

Israel Facts the Media Isn't Telling You
http://www.youtube.com/watch?v=QKq38COoTG8&feature=related

Views: 358,960

Maybe we know it, but we just don't know it yet?

-

Israel Attacks Jews,
Silence from Mainstream about Violation of Law
http://www.youtube.com/watch?v=K1kt8qi0M-M

They kill Jews for money. They bombed Jews in Lebanon
for money. They want to bomb the HUGE sacred Jewish
communities in Iran.. wonder why? Zionists are not
Jews, for Jews don't steal in God's good name. Nor
target innocent beings for stolen gains. A zionist is
a thief to life, and as such, needs to be formally
charged for their criminal offenses, given lawyers,
and upon a successful prosecution, rot in a prison
cell and/or pay restitutions. YES. why? so not another
innocent person must fall in their place as next
victim to a zionist's public commitment to lawless
tyranny for evil intentions.

Johnny for Coast to Coast Radio Host

-

Israel Phones 'Terrorists' Before they Bomb Homes
http://www.youtube.com/watch?v=K5wrwZlwAq8&feature=channel

Didn't the Nazis say something like, they weren't
there to take out Hamas directly? Well, after all,
it was founded by the Zionist IDF, so I guess that
must be why they target our children instead..

UN: "Israel knew they were bombing a school"
http://uk.youtube.com/watch?v=uWP0GU0wVSk

/ / The hospital, and other smaller hospitals and
clinics were previously shelled by the Israeli
warplanes and tanks, stressed Hassanein. He
also denied Israeli claims that medicine and

medical supplies had arrived to Gaza hospitals. \ \

The Zionist is a thief of Life as our enemy.

IDF VLOG UPDATE: IDF Hits Dozens of Hamas Terrorists
- Capt. Benjamin Rutland - 4 Jan. 2009
http://www.youtube.com/watch?v=q9Jt-pV5wuM&feature=related

This Zionist enemy of God speaks like a six year old.
"Hamas Terrorists", "4. Jan.", come on now, how evil
do you have to be to believe this ungodly demon sells
you righteousness. They STEAL our food. They are OUR
criminal enemies who torture innocent Peoples. A
godless criminal enemy who also steals Peoples Homes.
And drops millions of land mines to murder Jews
indiscriminately for decades. Commits war crime after
war crime against Humanity. Vile bile.

They killed our innocents, and unless we kill
theirs, they will go on killing ours.ï¿½

It is the crime of which they demand WE are outraged
against. Welcome to Humanity's suffering world due to
lacking communications skill. The term "they" are
referring to is YOU. Your innocent life Israeli
intend TO STEAL, TO MURDER, TO ROB YOU Your rights
here granted by God. These are ungodly acts of mass
murder, perpetrated by enemies of Life. They targeted
a UN Girl School for Christ's sakes. please fight back
by supporting my calls for open international dialog.
Justice must win our Freedoms back, for there is no
other lazy TV'ed ass, pop a pill to make it all go
away, plan 'b'. Look at me! I'm not crazhey! We can
handle this no prob.. I'm a perfect King for these
times of wonder and horror. equal rights are found
through open communications for a measured Justice
we do contain. Evil is the deceived disguised. And
i am a god... on a mission.. Ladies?

-

The Appropriate Response To Islamic Terror
http://revisionistreview.blogspot.com/2008/12/judaic-columnist-urges-kill-muslims.html

/ / an Orthodox Jewish Russian immigrant \ \

Let US never forget, the Zionists also would bomb
some locations, then later, drop the warnings
for the Jews to run for their lives. Didn't warn
them though if they get into a car or truck they would
be destroyed instantly by the Zionist flying the
America paid for Apache. I did a big show of shows
through that continued as, more 'un-resolved' crime

scenes perpetrated by the treasonous, neocon Zionist terror merchants. It's like they think some dying fools are going to keep going to save'em in the end from ourselves as still suffering in Justice denied as enslaving into ungodly tyranny eh? These Zionists are not only the bad guys, but they're bad guys to even the bad guys as there is no found honor among murderous thieves. A Zionist will kill a Zionist for a stolen nickel, as do bushites today. Hey! it's only Your Life in the balance. Or are you one of those who goes in America, it's okay, we're only murdering innocent folks who don't live in Israel.

Doing what's right and just, or evil as dumb is Your riddle. Get back to US on that.

We need People are Equals Power!

President and CEO of Shareware Earth Co.
King Johnny Wizard at your service me Lord.

-

/ / It is just unacceptable to apply two standards of morality, one for Jews and another for non-Jews. For if what Israel is doing in Gaza is right, as Israel and her supporters maintain, then what the Nazis did in Europe several decades ago must have been right as well. And vice versa. \ \

The ungodly zionist enemies, are enemies of God and Man. Don't think the NAZI Zionist like Bolton doesn't know this, with his friends at FoxNews.They WANT to rape, murder, and pillage America all her freedoms for the bounties of private banker frauds. The banker does not ever cover our loans, we do. So, why give them trillions of American worker waged dollars for nothing?. THEY DON'T COVER LOANS. See? that is what this war against God is all about. People of Humanity just seem to truly hate a guy like US as wise and Just. See, people hate US, because they can't for their lives disagree with Facts. Why won't YOU support these same rights and champion our demands for open communications. Johnny for Coast to Coast radio host.

US Again Stops UN Call for Gaza Truce

Who is this the "US" person?, and let's put him to death with Bolton and Kalilazad for the most serious of war crimes against OUR Humanity. Remember, Bolton was NEVER

confirmed because, the Zionist could find
no man or woman to say a single kind thing
about him. FACT.

CNN: The Nazis Broke The Ceasefire!
http://www.youtube.com/watch?v=KntmpoRXFX4

Protest pictures from around the world (not on CNN)
http://www.rys2sense.com/anti-neocons/viewtopic.php?f=11&t=16496&start=0

Remember Israeli nazis to this day, insist as
DEMONIC LIARS, Hamas broke the truce - as Hamas
is responsible when they target school girls for
slaughter. They said the UN were secretly attacking
Jews, clearly a LIE as impossible to prove because
it didn't happen. But facts are the furthest thing
away from the godless false accuser Zionist con man
or demon witch LIAR like Livini. FoxNews calls the
demon witch a Jew! ANTISEMITES.

We can witness, Americans do not have the intellect
to understand what this means. See, LIAR Nazi Israeli
broke the truce to get killed Jews for money. A
regular fair for Nazi Israeli. Now, they state they
will continue to indiscriminately murder humanity
until the tin can rockets that travel miles stop
killing Jews who hate Zionists. But importantly,
it is Israel that wants Jews to die, so they can
make off as Satanic with our stolen values. Just
like the Bush family did with Hitler, that the
Nazi Nation has no probs working gun in hand to
wipe out Jews everywhere still to this day. Again,
Nazi Israeli MURDERED JEWS in Lebanon as targeted.
And leave Jews to starve to Death in Israel for
more charitable aid they can use elsewhere. Public
knowledge not disputed by any living soul on this
planet because, the Zionist government admits freely
to this. Israeli think being Satanic is worth it,
for all the money and lives they can steal as enemies
to Christ, Hillel, Mohammad, YOU, blahblahblah.

http://www.liveleak.com/view?i=ab0_1231290043

http://www.kuwaittimes.net/upload/img_pict/headline9637e7.jpg

Read of the bushite in my America who call this work
of Satanic enemies, a good thing they support to
war terrorism for the sadistically evil liars of the
neocon. Then KNOW my friends, a bushite is the enemy
of every living soul on this planet. Have no love for
those in the Air Force, the enemies of Man who bomb
our families without excuse, but to know, they hate

US as Christ to speak free for Humanity. That DEMON George Noory was so happy last night about all the good the bankers AND CHENEY are doing for their hatred they spoke of for all Russians. SEE? not to protect America, but to kill you with their true commitment to the demonization of innocent people, all to escape the neocon terrorists. I HATE George Noory more than anyone alive in America. He is so openly evil to ourselves, that only those who wished to lie to you, (like Alex Jones does about Ron Paul), would say otherwise as bushite dumfuk enemies. Cowards committed to escaping Bush and Cheney for treason against Freedom. They doctored the NIE on Iraq, highest of war criminality. Alex Jones has never mentioned it, but for MAYBE in passing. Hey because all the bad guys are just puppets to ignore over the elites, globalists, socialists, liberals, gays maybe, Blacks, Mexicans, and anybody else smarter than NWOer Alex. Ron Paul is a coward as rarely if never has a clue of which he is speaking on.

Israeli PM says to end offensive if Gaza ends rocket attacks

Sarkozy urges Syria to press Hamas for Gaza truce

How does the ungodly get away with this obscenity? Nobody can deny Nazi Israeli broke the truce, as they always have done as Satanic for the last 60 years. Killing Jews for money is popular with the Zionist Nazis don't you know us by now? FoxNews CONNED Americans for DEATH with the unmentioned, TREASONOUS doctoring of the NIE. To kill Americans for more neocon gains, which Alex Jones never mentions either. Do Americans even care enough to raise Humanity's call? Do they demand public executions of sadistic godless Zionist torturers? as the Standing Law of America - The War Crimes Act - brought to be by Reagan - DEMANDS by the Law of America? It is the Law after all, yet, CNN, CBC, and FoxNews calls the perpetrators of the most heinous evil against Mankind, heroes. America is
a nation of godless cowards willing to die murdering innocent Christians in Israel, all for the profits of the 'magical' zionistic private bankers. Bushite grunts are now supporting the indiscriminate carnage, serving as police services forbidding any of the prisoners in Gaza from fleeing the indiscriminate slaughter. Again, as Satanic, they don't arrest the "Suspects", for what could they truly charge them with?, no instead demand we die helpless murder victims by forbidding escape, as they did in Fallujah murdering more than three hundred thousand innocent

souls. Die bushite die screams to all men on Earth from the Son of God. Will you stand for YOUR life as truly worth something here? Like lawless enemies Policing your reality will bring you more happiness and prosperity with the great truth teller HAPPY George Noory? The demon who openly confesses the will to want to murder all children in around the age of 15? Too crazy for you to face such an enemy of huge demonic origin, so, go the cowardly way like Alex Jones as sell out slave instead, to cover the demon with endless praise on his treachery to not have our fight on everyday with open calls for understanding Justice is freedom. Instead of a constant stream of bushite dumfuk enemies of Living. This isn't complicated. Or it doesn't have to be.

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce.

Alex Jones told US as a deceiver, he's been on Coast to Coast a hundred times. Not in these last eight years he hasn't. I demand Alex prove this, or be known by all far and wide a treasonous liar, trying to take US off the tracking of criminal action of his buddy, the demonic enemy LIAR George Noory. bin Laden didn't do 911, despite the facts that WE KNOW George Noory knows better of but LIES to con the American teen further for death at the profits of the un-elected bushmob. See Alex wants you to blame anyone but those directly involved in the crimes of 911, or Iraq, or those responsible for it's cover-up by Zionist propaganda. George Noory will have as invited guests whos only function there is to spread dis info as supporting more indiscriminate warfare for the escape of the neocon terrorists responsible for starting the illegal wars to begin US at. Or those whom often support torture, a war crime that only exists as irrationally held by those who's minds have only a blind hate for the indivisible rights of another innocent other. And often truly hate men and women for being Just as wise. The McCainiac Zombie video is a perfect example. When the Zombie is asked about the rights of Women, the McCainiac Zombie cried out for raping more Women. The position of authoritarian power, was only found with the bushite as oppressor, rapist, torturer, or Air Force Bomber, not liberation by freedom. The bushite McCainiac KNOWS it can't compete

openly to defend it's criminal treasonous
actions! Remember, Alex "the Conservative"
thought McCain was the choice if you had to make
one, earlier on, then changed his position,
sort of, later by calling them all puppets not
worth the effort, but .. Obama's idea's matter
not, it's that his Birth Certificate is, no war
too be fawned. Palin? who's she? McCain
firebombed Vietnam as "war hero" for France?
The Banker doesn't cover our loans? Matters
little.

Norwegian doctor: Israel intentionally targeting civilians
http://rawstory.com/news/2008/Norwegian_doctor_in_Gaza_Israel_targeting_0105.html

"All that is happening in Gaza here now is against
international law, it is against humanity and I
think it is against what it means to be a decent
person. You don't treat other people like this.
Even if you disagree with himï¿½ maybe even if you
fight with them, you don't treat civilians, children
and women like this."

Israel deliberately targeting civilians in Gaza
http://www.youtube.com/watch?v=Ev6ojm62qwA

It was almost acknowledged on CBC radio that
nazi Israelis, use the argument that a tin can
rocket traveled miles, to kill some innocent
Jew as a direct hit (likely a person who hated
godless NEOCON), all because that nazi state
has OPENLY, as PUBLIC policy, stolen water and
food including baby formula, along with a huge
list of other atrocities, to punish God and
Humanity since way back before three of four
truces. AGAIN, Nazi Israeli always, as ungodly,
break their truces. Why? Because YOU, or Christ
as any Jew's life means nothing, to all the
'free' billions they'll get from given American
worker wages. Look, Americans refuse to call
for the arrest of Bush on their national,
"truth telling" Coast to Coast radio program.
Why? Because, for one, George Noory, (Alex
Jones' best buds), has told US he's into
killing innocent kids as powerful, and that
'bin Laden did it', Is good enough for US.
You don't get a say here however how you will
live or die. George Noory calls all grunts
heroes, and those who refuse criminal orders,
those he wishes to go ballistic on. Yes, it's
true, George Noory is still alive and happy

as ever.

Rise Up for innocent Life, or don't and see
where it'll get you in the end.

Again, every soldier in the Air Force serving
for the neocon liar is a traitor warranting death,
to save the lives of their next innocent victims.
They have murdered more than two million people
in Iraq. They are pushing heroin into America
from Afghanistan. They are raping AMERICAN
women as officially "LAWLESS" (can't be arrested
but through Rumsfeld - who has not seeked any
prosecutions for the raping of American Peoples.
He, as Neocon, is TRYING to DESTROY FREEDOM
For all Americans in America - while paying
with American wages, South African death squads
to murder Black men) and TV'ed Americans refuse
to speak for Justice denied themselves. Zionist
amerikans only see US as innocent others, not
themselves to pay, but they do pay, they will pay.
God, nor John will not live in a world where
bushite grunts walk freely down our streets as
first degree mass murdering rapists, torturers,
and thieves. Celebrated by CNN, CBC, and FoxNews.
Especially when they DEMAND they have greater
rights than Human Beings. Mass Murderers deserve
immediate death sentence to defend ourselves
from their demon lies and betrayals to God and
Man. Every CBC and CNN reporter who reported
Russia attacked Georgia unprovoked will warrant
trial, then death sentences for their total
commitment to the Satanic NeoCON enemy war
criminals. Remember: they targeted for murder,
helpless innocent families. YOUR family. CNN
wants you to blindly believe, CNN personalities
like ENEMY George Noory are so happy, why would
we think they willed death against our great
Humanity by conning you for more stolen money
through the sacrifice of YOUR life for zionist
criminals who laugh at your powerlessness to
raise your voice for Justice.

-

Stealing the Title of Jew from Christ:

Fallujah by the Sea: Aping America, Israel Unleashes Chemical Weapons
in Gaza
http://uruknet.info/?p=m50412&hd=&size=1&l=e

Look at this picture of nazis indiscriminately slaughtering
our Humanity, while on MSNBC they reported that the Nazis
will continue to murder Humanity until a truce can be found,
A truce that the Satanic enemies of God will naturally break,
as they ALWAYS do. They are godless enemies of Life who wish
to steal the Title of Jew from Christ. They targeted Jews in
Lebanon with seven million land mines, and let Jews starve to
death in Israel for more charitable aid they can steal from
G-d's Good Will. When asked by Israeli newspapers why, it was
said to kill a Jew is rewarding for the godless Zionist.
Public record. Die bushite die.

http://lataan.blogspot.com/2009/01/israeli-zionists-guilty-of-deliberately.html

/ / In doing so, this makes Israel guilty of using
its own people as ï¿½victimsï¿½ for political purposes. \ \

-

What Israel Does Not want God or Humanity to See
http://www.kawther.info/wpr/2009/01/04/what-israel-does-not-want-you-to-see

Look at the comments from bushite grunts glorifing
in this indiscriminate slaughter of Innocent Human
Beings. Evil enemies of God do breath our air.
Die bushite die.

Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus!

LEAKED: graphic, uncensored video shows carnage in Gaza
http://rawstory.com/news/2008/Leaked_graphic_video_shows_carnage_in_0104.html

Zionist Enemies of The Jew do not Care for The Truth
http://video.google.com/videosearch?hl=en&hs=0hK&resnum=0&q=911+missing+links&um=1&ie=UTF-
8&sa=X&oi=video_result_group&resnum=4&ct=title#
Zionist Enemies of The Jew do not Care for The Truth
-

FBI E-Mail Says Bush Authorized Abuse of Iraqi Detainees
http://uruknet.info/?p=m50369&hd=&size=1&l=e

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ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

Israel or Hamas who broke the truce
http://www.youtube.com/watch?v=KUfgULhac8c

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

-

a-mother-from-gaza.blogspot.com

This web site is the winner of greatest interest
internet site of the years 2000s.

Israeli plan to topple Hamas, re-instate Abbas
http://a-mother-from-gaza.blogspot.com/

/ / Breaking the truce Nov. 4, then, was Israel's
way of getting the gears rolling for this whole
sick game: the toppling of Hamas, and the
re-instating of the impotent Abbas into Gaza
so the "peace process" can remain forever in
formaldehyde, to quote wiseass, er., Weisglass. \ \

Nov 4th! - perfect!. We are dealing with Nazi war
criminals who refuse US, as a Species, Justice
for everyone. Especially The Jew's Jew, Johnny
America. Hint: they call us Love just to hide our
complete agreement with this Living Universe to
will Justice for God as every last bushite zionist
freely moving. Once all the neocon zionists are
rotting in a prison cell, or formally executed as
godless war criminals, we all will have one joyous
welcome in a heavenly future.. Until then, demand
Justice for US. That's YOU too. Angels included.
Who? I don't see no Johnny Wizard here anywhere,
We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.
The bushmob are traitors for closing official FBI
investigations into 911, immediately after the mass
murder of Americans occurred. Treason, of a, trust
WE don't have it in US to stand for our common
values as the Revolution will not be televised,
Johnny Who. Man, are we or no? Be Somebody, then
get on your phone to call in for Justice willed.
Alive I Say! - this must be where you'd raise the
dead and dying.. if you only could raise your finger
to dial the phone numbers - well guess what? - I Command
You Can! - snapoutofit - Speak for pursuing Justice
on 911, and show serious concern for publicly paying
private banker men trillions in worker wages for
nothing. This is seriously disturbing, yes, but
seriously important to address openly in our spaces
to remedy with a Johnny Wizard World Wide Work of
Wonder, Super CNN Special of Specials, with Your
Host, the One and Only, President and CEO of
Shareware Earth Co. John Himself. Hey everybody!
Wow eh? So a.. when is the good guys showing up?
Now. Justice. I want US to Host Coast to Coast for
open Public communications, where things get
solved because we know whats we're learning about.
We of god, this way comes, then men and women with
calculators to know: giving money to private bankers

on hopes they'll lend a small fraction some back
to ourselves at high interest is dumber than rocks.

Arab American rally in Dearborn for Gaza
http://www.youtube.com/watch?v=AVP4_-u6MV0&NR=1

Israel Drops White Phosphorus Bombs, Littlest Victims Suffer
http://www.apfn.org/apfn/DU_Israel.htm

My friends, demonic evil forces do exist to STEAL
the living rights from anyone of us, especially
including the Jews. Remember, it is the zionist who
steals God's good name through lies left unchallenged
by private corporate interests tied to the CON of
private banking in total. Christ is a Jew too.
Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus! Like starving
Jews do attest on a infomercial that ran for near
18 months across Canada. Then covered by the Israeli
press, that the Zionist officials there actually
enjoy the prospect of suffering Jews because it,
OUR SUFFERING, will attract more charitable aid the
ungodly criminal enemy can use elesewheres! Hitler
revisited. I am the Son to God and I wouldn't lie
to you about an issue as hughly Satanic as this.

White Phosphorous: Israel fires artillery shells into Gaza
http://www.sott.net/articles/show/172089-White-Phosphorous-Israel-fires-artillery-shells-into-Gaza

We can overcome this, and create a better world in
the process. It's back to the simple things: open
communications, and evidence, evidence, evidence
to convince ourselves truly of anything. We are
in a horrible dream right now, that we must arrive
ourselves into for comforts. Arrest the Neocons for
treason. That of course includes anti-gay
Bolton for his and Kalilizad's treasonous lies
brodcasted on FoxNews these last few days. And
Peter Powers for the London bombings while we are
at it, then, we'll really being going places.

/ / My relative's neighbors- 3 young children- were
all killed today \ \

-

Satanic Enemies of Christ

CNN with Blitzer allowed reported on Larry King
that Hamas broke the truce, without any uttering
of fact. While when the nazi israelis were accused,
just minutes earlier, Mark Regev could say only

silence. The zionist Satanic enemies of Jews speak only silence, because they know they are satanic enemies liars of Human will.

Again, these SATANIC enemies break their truces everytime, then state, it is Humanity's fault because CNN will never ALLOW the humans to know. They are murdering innocent People in hospitals for example, or those in a Church, just as amerikan bushite nazi grunts do for the escape of the neocon zionists responsible for 911. To hunt a lawless bushite nazi grunt, and kll it instantly is to defend it's next innocent bombing victims. Bush and Cheney closed 911 investigations on 911, therefore killing a lawless bushite traitor for our Humanity is just to get ourselves together to arrest those responsible for mass murder on 911. The deaths of bushite zionist liars is a mercy given for the love of God. Die bushite die.

Israel Nazi State

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce. They always break their truces. Understand these Satanic enemies of God, dropped seven million land mines on Lebanon when learning the conflict was over. They will kill Jews for money, THEY are the Nazis. Nazi Mark Regev is clearly insane. 'It wasn't israel that started this' He could not stand with any man without instantly being exposed to All of Humanity as a war criminal in need of immediate public trial for death sentence. These are only innocent people being bombed. In a concentration refugee camp. Look, it's a prison camp. And if YOU
were a prisoner there, and Texan child rapists are something you'd wish to defend your community from, you'd maybe join the Gazan police force, run by Hamas, a political group democratically elected. All police officers in Gaza, Nazi israeli claims warrant 1000 lb bombs, not warrants for arrest for a criminal offense. Remember, it was Israel that broke the truce, as so is spoken by Palestinian government officials speaking internationally - using the example from November. But understand, as Satanic fraudsters, they always fuck over Our Innocent Humanity this way.

What kind of "Human" would commit such crimes against Life? Cheating Liars for Satan God tells YOU.

The Bible "I know the blasphemy of them which say they are Jews, and are not, but are the synagogue of Satan."

Look, these enemies of Life steal INNOCENT PEOPLES HOMES as thieves of The King of Jew's simple philosophy.

The Reality of Zionist War Crimes in Gaza
http://www.youtube.com/watch?v=GDjthFt6EZg

The zionists aligned with Bolton are using radio-active weaponry against all Christians. What do "Christians" in America on Coast to Coast have to say? Nothing because that demon enemy of Life George Noory, the pro child killer, insists as Truth's closest most bestest friend, bin Laden did it.

most moral army in the world:

Our reign of terror, by the Israeli army
http://www.ifamericansknew.org/cur_sit/rot.html

Glorified by CNN, CBC, and FoxNews:

ï¿½do the Gazans know that only Hamas is to blame for their sufferings?ï¿½

Remember those same news groups will KILL Americans too with poisons in our foods while smiling as George Norry does Daily

-

Gray Ghost

/ / Funny thing noone ever shows pictures of the scumbag Hamas rockets falling on Israeli civilians, but the nooz is full of Palies suffering. Fuck you all I hope Israel exterminates the vermin. \ \ He can advocate the MURDER of innocent people for the neocon liars, and Google doesn't destroy his account?

Remember Zionist Nazi Israeli started all their murder rampages against Innocent Peoples for 'free' welfare money, as broke the truce with, IDF funded Hamas on Nov. 4th. They have been indiscriminately bombing People with excuses that never do add up. Example: Nazi Israeli stated they were in the right to murder ANYONE

in a car or truck in the entire nation of
Lebanon, (especially in the Jewish communities)
because like enemy "Gray Ghost" would say, all
those innocent Peoples deserve TO DIE AS MURDER
VICTIMS for his sadistic ungodly pleasures.
Remember, Nazi Israeli didn't mention this until
thousands has already been murdered, then even
still, without radio, TV, or newspapers, telephones,
or sky writing how were ONLY THE INNOCENT JEWS
as officially targeted to know? Then the seven
million land mines to kill innocent kids for
generations. To the enemy of Life, Gray Ghost
it matters not that Israeli started the conflict
by sacrificing nazi vermined trashed as Satanic
dumfuk enemy soldiers sent across the border,
to Grey Ghost, all it knows, is Justice must not
be allowed to win this game for our human race,
for he would be truly seen as a sadistic enemy
of Freedom, powerless, or rightly dead for
his proud treasons against life in this universe.

ZIONIST DEMON LIARS TO SHOW HIT ON TRUCK FULL OF ROCKETS ACTUALLY HIT
TRUCK FULL OF WELDING TANKS
http://english.aljazeera.net/news/middleeast/2009/01/20091117737115874.html

Please John begs all People's of Humanity,
Americans do not have the courage to even speak
concerns for their dying as evil state of godless
private banker ruled blind tyranny. 'Duh, yeah
give billionaires trillions, trillions, TRILLIONS
to help the poor homeless mothers poisoned by
FoxNews CRIMINALLY.' Gawly je, I dunt no y dat
detnt work-ed' - o wel, cary ohn my wayward Son.

Livni: Gaza truce would give Hamas legitimacy

See? this is why NAZI I$raeli thinks they have
an excuse for bombing people indiscriminately
to break a truce they signed on to. This isn't
a one time, maybe two time occurrence, but every
time in the last 60 plus years the zionists
aligned with Hitler have. Satanic enemies
of Humanity.

ANTI-SEMITE is FoxNews every time they assault God
with "Israel, the Jewish State" to torture, steal,
and murder.?. ANTI-SEMITE!

The Ungodly Zionist - a report from the front

/ / The most recent victim of Israeli airstrikes
was 10-year-old Ismail Hamdan \ \

To the Satanic enemies of Man, the Ungodly Zionist,
an innocent murder victim's life can not be allowed
a defense such as the charge of first degree murder
against Netanyaho because, he states no Justice to
any who believe in the Jewish cause, as Hillel, of
freedom as Liberty for all. If Jews ran Israel,
Netanyaho would be chastised publicly by the Humans,
for sanctioning the criminal acts of first degree
murder. The nation of Nazi Israel STEALS Peoples
HOMES. What other nation on this Earth commits
such willful crimes against innocent Human beings
OFFICIALLY? Steals homes from god loving innocent
folks and labels it our 'Justice system'? Who? Neocon
Amerika, the nation that gave trillions to bankers
recently on only prayers that their gods will maybe
lend some of their own money back to them at high
interest. But alas, evil is the deceived disguised,
as in their deep ignorance of money and virtue, they
do not understand, the private banker never covers
the loan. Never does a private banker reach into
it's pocket to borrow US to begin with - so as a
consequence, the bankers have just pocketed all the
'free' loot for nothing, TRILLIONS, and are not
saying why should they help anyone else with charity?
it's the amerikan way. Instead, hate the wise socialist
who designed a working good traffic signal system,
where lives are saved and congestion is eased, or
hate the white man, the black man, different People.
But never Mr. Bush, Mr. Cheney, or Rumsfeld, the
neocon traitors who closed criminal investigations
immediately after the crimes of 911 occurred, who
doctored the NIE to con America into death, and
never slight the trillioniare private banker gods,
who have stolen/taken our public authority through
war criminals in Congress. Taken from all others
to bring us a much poorer world suffering due to
our speakings of contempt for Justice as christians
in America - who claim in silence only indignation
for real Christian families robbed or murdered
Officially by the zionist state of ungodly Israeli,
paid for by dying America. Americans refuse to raise
their phones for the arrest of the bushmob for capital
mass murder, so, what's private trillioniare bankers
walking away with the entire economy in free fall
going to do for them, when they are already to
death for the glorious Zionist Neocon thieves of
Civilization? Proudly in hatred for Innocent
Humanity. Again, Hamas was founded by Zionists
in the IDF, to kill Jews for money - public record.
Jews starve near death in Garbage dumps of Israel,
all because the Nazi Zionist UNGODLY government

states it is beneficial to starve Jews, for, they will receive more humanitarian aid THEY can use elsewhere. Public knowledge. Zionist liars murder innocent Jews for money, like they did in Lebanon, and like the zionists did on 911 by forbidding the pursuit of the terrorists by following the crimes scene leads at the real murder scene. Unjust enemies of Man.

To arrest those responsible for 911, we are going to need to form a public warrant for a person or persons. Bush and Cheney are guilty of closing investigations on 911, treason, called obstruction.

UnHoly Nazi Israeli Racists are Greater than the censored words of Messiah!

IDF's YouTube Gaza channel to Correct Ourselves

/ / it will disseminate footage of precision bombing operations \ \

Precision? They dropped seven million land mines in Lebanon, after having seeked out where the Jews lived, (Northern Lebanon), and murdered them firstly! JEWS. They, as enemies of God, like those of FoxNews, will refuse these type of FACTS on their hatred for Love and Justice. Their hatred for Jews, real Jews, like me. Understand: American baby formula has been contaminated with poisons, and FoxNews doesn't think it's important to their corporate responsibilities to kill ourselves further for profit. The Zionist will murder anyone just to steal your belief in God as Love. They HATE me for being wise and Just. Hate. For, why wouldn't America support my demands for open radio communications on the Coast to Coast radio network? Americans would rather murder Humanity before Justice succeeds beyond their illusions of grandeur through the mass murdering of ourselves for stolen gains. The banker does not cover our loans! Giving them trillions for free unquestioningly is dumber than rocks. Enough.

Fake Rocket Attack
http://xymphora.blogspot.com/2005/02/fake-rocket-attack.html

Remember however, the Zionist has no qualms about killing Innocent Jews too if it means Americans will get it more free welfare to murder ourselves. They openly STEAL Peoples

homes in that nation run as thieves don't
You know? Or as it is just open public
knowledge that the Zionist excepts that
911 was actually a good thing for them as
war criminals reaping the cash rewards for
continuing capital murders?

/ / Ehud Barak promised that the war would
continue ï¿½to the bitter end.ï¿½ \ \

That is you there Barak promises to end
bitterly as the innocent the demon targets
for ungodly murder. How could ANY REAL MAN
steal food from a Christian baby? How do they
do it?, as the inhuman. (Like bushite do in
Iraq, while on CNN in interview tell US, they
are there war criming for neocon traitors to
steal everything as "helping the Iraqi
children". They offer no clean water, no food,
just indiscriminate bombing campaigns of evil
incarnate. True fascist nazi enemies of true
freedom in America who advance censorship to
anyone like myself. Why? They lose. They are
not men but Satanic enemies of the King to
Jews, the Messiah. I Am. Thieves to the
scriptures of Hillel, and of Moses. Thieves
to the intent of every true religious person,
for God is everywhere. God is the Word, and
the Word is Holy. So, fuck you and die bushite
nazi traitors to American Justice, those of
them who refuse US open free words to resolve
their war criminal behaviors as is done in
godless Israel today against INNOCENT
Christians. Done before another innocent other
has our homes stolen, or is murdered by the
lawless grunting bushite dumfuk enemies of
Jesus Christ. I am King already, always have
been, always will be. Live with it. The Koran
is filled with great understandings on this
relationship. Christ is mentioned more than
Mohammad - and Mary can be understood as the
mother of all being before we are. a virgin.)

Look humans, you've
had your fun murdering yourselves, now the wise
people will compete for bettering ourselves by
understanding. Who the fuck are these illiterate
monsters at CTV national television? and how can
they willingly keep our soldiers in the dark dying
that way by simply smiling? Are they experts in
anything? are they respected researchers? writers?,

politicians?, civil rights lawyers? - do they even
respect ourselves enough to be warned of vaccines?
NO, instead they LIE with such contempt for Humanity
I am surprised Canadians, don't speak out more..
perhaps they do, it's just CBC, CJOB, and the
Winnipeg Free Presses of our World make no attempt
to inform ourselves about it. They don't take my
thousands of calls, how about Yours?

Life is real to know, if you seek, and not go
so freaked out as Living is as it always has
been. Knowing God is cool, 'amazing', yeah,
whatever, but we are of too this real world
suffering for our lack of respect for a wise
person speaking. I WANT FREE PUBLIC DEBATE
FOR JUSTICE AS ALL INCLUDED. Now really, is
that too much for US to ask freely? What say
you Googler? Afraid I will truly make your
banker gods look like fools?, the gods we all
give more than half our lives to for nothing?
Don't want to look truly dumb as deathly
ignorant, so censor US all themmers you are
too in command of your Fate. So be it. See?
Stand in. I didn't even really do anything
there, yet it's written, it's done. A Miracle!
Imagine: your Christ! YOU. now what are you
going to do.. time is ending for you remember,
now what are you going to do? Will you pick
up your magic phone and call likewise for
Justice denied, or will you crawl up on your
cross and die in silence for the glorious
Zionist aligned with trillioniare private
bankers and Satan? Christ is of all peoples.
Your on a mountain.. You've raised yourself
from death already, and your here to do
something greater for the love of God..
what's your plan for the common man? Welcome
to the real world my friend.

Morpheus 'Nobody can tell you what the Matrix
is, you have to see it for yourselves. .. all
I am offering is the truth Neo, nothing more'

Lawless Police to Defend Who Again?

They Call it Terrorism

"Israeli nazi enemies call bombing people,
like they do without apology, terrorism.
What can't you figure?"

CNN TODAY

/ / Stand down 'Christian' nation. It's
not your babies. Ethnic cleansing is not
a 'sin' as long as the 'chosen ones' of
Israel do it. \ \

Israel, the nazi enemies of God nation broke
the ceasefire on November 4th. Now, as demon
liars claim they want to honor a ceasefire
again to further steal ourselves from the
Love of Justice. Why do the godless Zionist do
this always as first degree murderers? Because
they can't win an open debate on their treasons
against God and Man. The private bankers DO
NOT cover our loans. Again, these SATANIC
ENEMIES OF GOD dropped seven million land
mines on Lebanon while target killing JEWS.
INNOCENT JEWS. Targeted. Northern Lebanon,
look it up. Israeli MURDERED Jews. Innocent
Jews as targeted for more stolen charity. I
again, beg you to support my call for war
crime trials against the bushmob, including
CNN demons who report a total contempt for
YOUR life dying. Your call loser.

ISRAEL: No civilian casualties in Gaza!
http://uk.youtube.com/watch?v=RlZd3vR6Kzk

Satanic enemies of God as anyone included.
Think: who buys these demon lies to steal
further from our innocent Humanity? Zionists
do at CBC and CNN, who will murder America
by openly lying to destroy freedom. Example:
CNN reports Georgian nazis who targeted
children schools, churches and threw grenades
into our homes to murder as minions for Satan
are called freedom fighters. Just like the
Third Infantry, the new lawless police officers
of California, who can't be charged with rape
for example, because ONLY Rumsfeld can okay
such prosecutions. Hey who cares for Iraqi Rights
right?, for TV America's CNN with FoxNews and
George Norry doesn't, for it's only American
women and children now right nazi enemies? And
WE ALL KNOW, cowardly America refuses to even raise
their phones for these dying concerns. How can
George Norry continue to live happily dying
America for the neocons? How? they let them.
Alex Jones thinks George Norry is just
fantastic, so no, don't encourage the NWOers
to demand free communications, because if we
did, Alex Jones and the like, would factually
look like the idiots he is. (better to die

America than face this foolishness?) The banker doesn't cover our loans, we do Alex. So giving them trillions in American worker wages is a bank robbery in progress. Simple. NOT a diabolical ingenious plan, we, the simple folk can't figure without the Alex Jonesers geniuses of thought control developed by the CFR, builderberg, the Boners and NASA.

Obama stated all lawless soldiers who war for godless Zionism are heroes, which includes South African death squad goons who murder my nigger friends. AEGIS. I call them lawless enemies of God, deserving death sentences to save the lives of their next innocent victims, Obama calls them heroes warring for the escape of the neocon traitors responsible for 911. Who are you going to believe?

1532. Re: annealed coax

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 02:09:41 UTC
From: jimlux@earthlink.net
Message-ID: <68d98473-ab62-44e8-9fd3-d3bbce69fc57@v15g2000yqn.googlegroups.com>
Source record: 17056

I also realize now that the type of
> cable being used is probably the worst possible choice. Just swiching
> to a foam dielectic cable may solve the problem.
>
> Jimmie

The physical dimensions of the coax changes with temperature. The ratios of inner and outer diameter stays pretty much the same, so the Z doesn't change, but the epsilon of the dielectric changes (it's less dense at higher temperatures). since propagation speed goes as 1/sqrt (epsilon), and the density goes as 1/t^3, the prop speed goes as 1/ (sqrt(1/t^3)) = t^(3/2)...

On top of that the coax gets longer as a function of T, so the time delay/phase goes as T/(t^1.5) or 1/sqrt(T).

A CTE of 30ppm/deg C is about 0.05%/deg C for time delay. If your coax is 1 wavelength long, a change of 5C is about a degree. (0.25% = 1 part in 400, 360 degrees/wavelength, etc.)

You can see that working at microwave frequencies, where coax might be 100 wavelengths long, trying to match to a degree is a challenge.

1533. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 08:16:03 UTC
From: KD8CTL <anon@anon>
Message-ID: <2ksk8m.7pi.19.1@news.alt.net>
Source record: 17057
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

"k3vr" <k3vr@ymail.com> wrote in message
news:9793ea42-daed-4507-bcf6-f076c6ab67b4@41g2000yqf.googlegroups.com...
On Feb 26, 6:16 pm, kb9...@yahoooo.com wrote:
> On Thu, 26 Feb 2009 14:38:06 -0800 (PST), KD8IMG is a 2 time convicted
> stalker of women <mopezakw...@yahoo.com> wrote:
>
> >On
>
> gte a life
>
> "one useless man is disgrace 2 become a law firm 3 or more become a
> congress"
> adams
>
> woger you are a Congress all in your own head
>
> http://kb9rqz.bravejournal.com/
> altopia is never used by KB9RQZ
> nor is Konst...@hotmail.com ever
> btw i can be found at
> 17366 N River Rd
> Chassel Mi
>
> but the cowards asking lack the gut to act

Some of them sure got a bunch of your Google accounts canceled, eh?

1534. earn more money in 2009 and also we get free air ticket for your vacation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 08:17:50 UTC
From: divya <dvdivya7@gmail.com>
Message-ID: <e1661b38-6f56-4fbb-95ac-e5c10484843e@t3g2000yqa.googlegroups.com>
Source record: 17058

no investment:

no physical work:

no tension:

earn more money in the home:

per day earning is 10$ to 12$:

we can do it as part time job:

and also we get free air ticket for your vacation:

click here below:

****
http://newmediaz.webs.com
****

1535. Re: VHF Handbook

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 08:40:57 UTC
From: Harry H <harryharms@hotmail.com>
Message-ID: <twLsl.26022$cu.8370@news-server.bigpond.net.au>
Source record: 17059

Alain,
Yes its called "VHF Handbook" written by Orr & Johnson.
Thanks
HH

"Alain" <opalockamishabob@yahoo.com> wrote in message
news:23e1ebe2-fc4c-45d1-b0a5-212d135308f9@v18g2000pro.googlegroups.com...
On Mar 2, 5:50 pm, "Harry H" <harryha...@hotmail.com> wrote:
> I am trying to source a readable copy of Orr & Johnsons "VHF Handbook".
>
> I have found a copy, but the "heavy wear" description is just that, some
> pages are unreadable.
>
> If anyone can help me, either with a reasonable hard copy or a PDF file or
> a
> copy on a CD, I would be very grateful.
>
> 73
> HH

Harry,

There is a book entitled, "All about VHF Amateur Radio" by William I.
Orr available for around $4 from a used bookseller.

Is that the exact title ["VHF Handbook"] that you're looking for?

Alain

1536. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 18:29:21 UTC
From: motzarella <bluestar95@mail.invalid>
Message-ID: <gp12q9$d9i$1@news.motzarella.org>
Source record: 17060
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Many thanks for all the advice.

I went for the suggested options of scratching the soft bronze coloured
washers (which i dont think were ever curved) and the faces they fit
against. I also squeesed the ' U ' shape holder with long handled pliers.
It now at least holds up at an angle, but only just.

many thanks.

p.s. is it me, or are some people decidedly *strange* in these newsgroups
?

1537. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 18:36:59 UTC
From: spam@spam.com
Message-ID: <49b51034.725782765@localhost>
Source record: 17061
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

On Sun, 8 Mar 2009 18:29:21 -0000, "motzarella"
<bluestar95@mail.invalid> wrote:

>Many thanks for all the advice.
>
>I went for the suggested options of scratching the soft bronze coloured
>washers (which i dont think were ever curved) and the faces they fit
>against. I also squeesed the ' U ' shape holder with long handled pliers.
>It now at least holds up at an angle, but only just.
>
>many thanks.
>
>p.s. is it me, or are some people decidedly *strange* in these newsgroups
>?
>
Unfortunately they are perfectly normal (for them, that is).

d

1538. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 19:34:33 UTC
From: PeterD <peter2@hipson.net>
Message-ID: <hd78r4hujs6pbtkltje342g14b8nupbk81@4ax.com>
Source record: 17062
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

On Sun, 8 Mar 2009 18:29:21 -0000, "motzarella"
<bluestar95@mail.invalid> wrote:

>Many thanks for all the advice.
>
>I went for the suggested options of scratching the soft bronze coloured
>washers (which i dont think were ever curved) and the faces they fit
>against. I also squeesed the ' U ' shape holder with long handled pliers.
>It now at least holds up at an angle, but only just.
>
>many thanks.
>
>p.s. is it me, or are some people decidedly *strange* in these newsgroups

You, but we won't say anything if you don't...

>?
>

1539. Re: Calling for Americans to Investigate 'magical, god like" Private Bankers with Triillions managing still our bank buildings that "LOST" all our monies mysteriously somewheres..

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 19:36:40 UTC
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women." <mopeyzakween@yahoo.com>
Message-ID: <51fe51e4-7101-42fc-b89c-a2adc47f6020@o36g2000yqh.googlegroups.com>
Source record: 17063
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

investigate THIS, asswipe!

http://en.wikipedia.org/wiki/Felching

1540. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 20:34:29 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <iE3tl.5996$5t4.2454@newsfe24.iad>
Source record: 17069
Cross-posted to: rec.audio.tech,rec.radio.amateur.antenna

"motzarella" <bluestar95@mail.invalid> wrote in message
news:gp12q9$d9i$1@news.motzarella.org...

< SNIP >

> many thanks.
>
> p.s. is it me, or are some people decidedly *strange* in these
newsgroups
> ?

Yes, but you shouldn't be surprised. You sampled a cross-section of humanity. The difference that you _think_ you detected is that, in a newsgroup, everyone has a voice, not just the ones with whom you choose to interact.

Hypothetically (because you don't have enough time), if you were to have a conversation with every person you encountered, I think you would find an equal percentage of strange people.

"Sal"

1541. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 21:59:14 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <HdXsl.22851$Yx2.6909@en-nntp-06.dc1.easynews.com>
Source record: 17064

Allodoxaphobia wrote:
> On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:
>> Phase 2 was first digging the 36' x 36" x 45" hole for the base, then
>> securing the tower rod base and pouring the concrete.
>
> A 36 foot deep hole ought to hold up a freestanding 100' tower --
> or more! :-)
>

It's actually 52" deep; the tower mfgr said min. of 45"; ARRL handbook
says 6' but only 30" sq, depending on the type of soil.

Marv

1542. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 22:20:30 UTC
From: kb9rqz@yahoooo.com
Message-ID: <t4h8r49j4o9lt4nhej8vcl0hqiv6le4292@4ax.com>
Source record: 17065
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Sun, 8 Mar 2009 03:16:03 -0500, "KD8CTL" <anon@anon> wrote:

>

get a life of your own freak

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

http://kb9rqz.bravejournal.com/
altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1543. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-08 22:21:58 UTC
From: dloydlavies@hotmail.com
Message-ID: <c7h8r4146hsc59m88aqiijnm91kbnhrh87@4ax.com>
Source record: 17066
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Sun, 8 Mar 2009 12:36:40 -0700 (PDT), "KD8IMG, Robert Trendel, is a twice convicted stalker of women." <mopeyzakween@yahoo.com> wrote:

>investigate THIS, asswipe!
>
>http://en.wikipedia.org/wiki/Felching
these are not sex related ng freak

1544. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 03:41:52 UTC
From: "KD8IMG, Robert Trendel, is a twice convicted stalker of women." <mopeyzakween@yahoo.com>
Message-ID: <c9aa57a7-927a-4ef6-881f-b97891f76fe0@r27g2000vbp.googlegroups.com>
Source record: 17067
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Mar 8, 6:21 pm, dloydlav...@hotmail.com wrote:
> On Sun, 8 Mar 2009 12:36:40 -0700 (PDT), "KD8IMG, Robert Trendel, is a
> twice convicted stalker of women." <mopeyzakw...@yahoo.com> wrote:
>
> >investigate THIS, asswipe!
>
> >http://en.wikipedia.org/wiki/Felching
>
> these are not sex related ng freak

you go investigate it too, goo face

1545. APRSPoint version 4.5.1 available

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 04:42:00 UTC
From: "hxc98@yahoo.com" <hxc98@yahoo.com>
Message-ID: <c9529fd1-ea90-4ab3-a9f3-48dd1d66fb21@h5g2000yqh.googlegroups.com>
Source record: 17068

This version has better support for mappoint 2009 and added support
for APRS symbols and overlays, and made several enhancements. Current
users please pay special attention to #2, since your current settings
may need to be changed,

1. Added support for standard APRS symbols and overlays,
2. Changed the way log files are saved, now you need to provide the
name of a folder where logs will be saved, the name of the log file is
genarated automatically by appending the date after 'log', so old logs
won't be overwritten. You need to create the folder if it doesn't
exist. Leave the folder name field empty if you don't want to save
logs,
3. Better signal range calculation accuracy to reflect real world
operating conditions,
4. Uninstall will no longer remove tnc settings file,

Visit www.aprspoint.com for details.

1546. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 12:40:05 UTC
From: Arny Krueger <arnyk@hotpop.com>
Message-ID: <LI6dnXWWIP60kyjUnZ2dnUVZ_rmdnZ2d@giganews.com>
Source record: 17070
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"john zeiss" <bluestar@mail.invalid> wrote in message
news:goloa7$bp4$1@news.motzarella.org...
> We have a small portable sony radio, and it has the usual type of
> extendable aerial (antenna) that you get on small japanese radios.
>
> It now refuses to maintain its position at an *angle*. Slowly but surely
> it drops down until it reaches the horizontal position.
>
> The small screw has been tightened up, but even as tight as we think we
> can
> do it without stripping the slots in the screw head, it is not enough to
> *clamp* the aerial to stop it dropping down.

> Basically the aerial at its base is a square shape with one small bronze
> coloured washer each side of it and that all sits in a ' U ' shaped base
> with it all being clamped with a small screw.
>
> Are there any tricks you know of, to get it to behave? Thanks.

Sometimes a carefully-chosen tap with a hammer and/or a center punch can
work marvels, or not.

Other than that, a replacement would seem to be in order. There may be an
appropriate generic, or you may need to contact the manufacturer of the
radio. Sony has IME been pretty good about having parts in the past.

1547. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 14:20:17 UTC
From: kb9rqz@yahoooo.com
Message-ID: <3c9ar4pugp3u7libnsht5d2qut2j6qa4r7@4ax.com>
Source record: 17071
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Sun, 8 Mar 2009 20:41:52 -0700 (PDT), "women."
<mopeyzakween@yahoo.com> wrote:

>On Mar 8, 6:21ï¿½pm, dloydlav...@hotmail.com wrote:

>> these are not sex related ng freak
>
>you go investigate it too, goo face

why fool this is till not a sex related ng idoit

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1548. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 15:20:01 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <Usatl.15321$as4.4385@nlpi069.nbdc.sbc.com>
Source record: 17072
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Arny Krueger wrote:
> "john zeiss" <bluestar@mail.invalid> wrote in message
> news:goloa7$bp4$1@news.motzarella.org...
>> We have a small portable sony radio, and it has the usual type of
>> extendable aerial (antenna) that you get on small japanese radios.
>>
>> It now refuses to maintain its position at an *angle*. Slowly but surely
>> it drops down until it reaches the horizontal position.
>>
>> The small screw has been tightened up, but even as tight as we think we
>> can
>> do it without stripping the slots in the screw head, it is not enough to
>> *clamp* the aerial to stop it dropping down.
>
>> Basically the aerial at its base is a square shape with one small bronze
>> coloured washer each side of it and that all sits in a ' U ' shaped base
>> with it all being clamped with a small screw.
>>
>> Are there any tricks you know of, to get it to behave? Thanks.
>
> Sometimes a carefully-chosen tap with a hammer and/or a center punch can
> work marvels, or not.
>
> Other than that, a replacement would seem to be in order. There may be an
> appropriate generic, or you may need to contact the manufacturer of the
> radio. Sony has IME been pretty good about having parts in the past.
>
>

One other point to ponder is that like the Mercury Space Capsule and the
Space Shuttle your antenna was manufactured by the lowest bidder!!!

1549. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 16:53:49 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gp3hitihl1@news.jpl.nasa.gov>
Source record: 17073

MTV wrote:
> Allodoxaphobia wrote:
>> On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:
>>> Phase 2 was first digging the 36' x 36" x 45" hole for the base, then
>>> securing the tower rod base and pouring the concrete.
>>
>> A 36 foot deep hole ought to hold up a freestanding 100' tower --
>> or more! :-)
>>
>
> It's actually 52" deep; the tower mfgr said min. of 45"; ARRL handbook
> says 6' but only 30" sq, depending on the type of soil.
>
I don't know that I'd use the ARRL handbook as a source for
structural/civil engineering data. The figures in the "assembling a
station" chapter in my 1990 handbook are just an example for a TriEx
LM-470 or for a Wilson ST-77B, not a general recommendation for all
towers. In fact, the last sentence in the section is:
"Once you have that information, contact the engineering department of
your tower manufacturer or a civil engineer"

Following the mfr recommendations is probably the best bet. (and that's
if they're the *current* recommendations.. engineering and construction
standards are always evolving, what was acceptable in 1960 might not be
acceptable today)

That said, there's a lot of possible tradeoffs in tower bases, even for
the same kind of tower in the same location. skinny and deep vs wide and
shallow is one. If you're not taking the manufacturer's recommendation,
then you probably need to get someone with some engineering expertise to
tell you whether what you want to do is reasonable.

1550. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 17:26:24 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <9da8a13b-8500-4df3-b6d4-e9b542c4d422@f37g2000vbf.googlegroups.com>
Source record: 17074

On Mar 9, 12:53 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> MTV wrote:
> > Allodoxaphobia wrote:
> >> On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:
> >>> Phase 2 was first digging the 36' x 36" x 45" hole for the base, then
> >>> securing the tower rod base and pouring the concrete.
>
> >> A 36 foot deep hole ought to hold up a freestanding 100' tower --
> >> or more! :-)
>
> > It's actually 52" deep; the tower mfgr said min. of 45"; ARRL handbook
> > says 6' but only 30" sq, depending on the type of soil.
>
> I don't know that I'd use the ARRL handbook as a source for
> structural/civil engineering data. The figures in the "assembling a
> station" chapter in my 1990 handbook are just an example for a TriEx
> LM-470 or for a Wilson ST-77B, not a general recommendation for all
> towers. In fact, the last sentence in the section is:
> "Once you have that information, contact the engineering department of
> your tower manufacturer or a civil engineer"
>
> Following the mfr recommendations is probably the best bet. (and that's
> if they're the *current* recommendations.. engineering and construction
> standards are always evolving, what was acceptable in 1960 might not be
> acceptable today)
>
> That said, there's a lot of possible tradeoffs in tower bases, even for
> the same kind of tower in the same location. skinny and deep vs wide and
> shallow is one. If you're not taking the manufacturer's recommendation,
> then you probably need to get someone with some engineering expertise to
> tell you whether what you want to do is reasonable.

The design of the base depends a lot on the local soil. An antenna
installed in
the red clay of North Carolina may be a lot smaller than one on a
Florida sand hill.
Local guidance should always be obtained. If you wing it on your on
you may
be held responsible for damage to your neighbor's home, insurance may
not
pay for damages. I was advised to get a permit when I contacted the
city engineers
office about installing an antenna. If you get a permit and install
the antenna properly

and it falls on your neighbor's house their insurance pays, you are
not responsible.
On the otherhand if you didnt do it by the numbers you can be held
responsible
and your insurance may not help you.

Jimmie

1551. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-09 21:25:42 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <4Qftl.9225$%54.2839@nlpi070.nbdc.sbc.com>
Source record: 17075

JIMMIE wrote:
> On Mar 9, 12:53 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
>> MTV wrote:
>>> Allodoxaphobia wrote:
>>>> On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:
>>>>> Phase 2 was first digging the 36' x 36" x 45" hole for the base, then
>>>>> securing the tower rod base and pouring the concrete.
>>>> A 36 foot deep hole ought to hold up a freestanding 100' tower --
>>>> or more! :-)
>>> It's actually 52" deep; the tower mfgr said min. of 45"; ARRL handbook
>>> says 6' but only 30" sq, depending on the type of soil.
>> I don't know that I'd use the ARRL handbook as a source for
>> structural/civil engineering data. The figures in the "assembling a
>> station" chapter in my 1990 handbook are just an example for a TriEx
>> LM-470 or for a Wilson ST-77B, not a general recommendation for all
>> towers. In fact, the last sentence in the section is:
>> "Once you have that information, contact the engineering department of
>> your tower manufacturer or a civil engineer"
>>
>> Following the mfr recommendations is probably the best bet. (and that's
>> if they're the *current* recommendations.. engineering and construction
>> standards are always evolving, what was acceptable in 1960 might not be
>> acceptable today)
>>
>> That said, there's a lot of possible tradeoffs in tower bases, even for
>> the same kind of tower in the same location. skinny and deep vs wide and
>> shallow is one. If you're not taking the manufacturer's recommendation,
>> then you probably need to get someone with some engineering expertise to
>> tell you whether what you want to do is reasonable.
>
> The design of the base depends a lot on the local soil. An antenna
> installed in
> the red clay of North Carolina may be a lot smaller than one on a
> Florida sand hill.
> Local guidance should always be obtained. If you wing it on your on
> you may
> be held responsible for damage to your neighbor's home, insurance may
> not
> pay for damages. I was advised to get a permit when I contacted the
> city engineers
> office about installing an antenna. If you get a permit and install
> the antenna properly
> and it falls on your neighbor's house their insurance pays, you are
> not responsible.

> On the otherhand if you didnt do it by the numbers you can be held
> responsible
> and your insurance may not help you.
>
>
> Jimmie

Regardless of the soil that your tower is sited upon, the total mass of the concrete must exceed the weight of the tower, the antenna's fixed upon and the estimated wind force that the tower will see. This is so that the center of gravity of the tower/antenna system is below ground level.
Thirty yeas ago my local radio club installed a new tower. The tower was 180 feet tall with a 4 bay antenna. We had a hole 10feet on a side dug and filled with concrete. When the tower did fall it bent in two about 80 feet up and folded over. The base formed the bottom of the replacement tower and is still in service.

Dave WD9BDZ

1552. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 00:11:31 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <Lfitl.29775$UQ6.12178@en-nntp-03.dc1.easynews.com>
Source record: 17076

Jim Lux wrote:
> MTV wrote:
>> Allodoxaphobia wrote:
>>> On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:
>>>> Phase 2 was first digging the 36' x 36" x 45" hole for the base,
>>>> then securing the tower rod base and pouring the concrete.
>>>
>>> A 36 foot deep hole ought to hold up a freestanding 100' tower --
>>> or more! :-)
>>>
>>
>> It's actually 52" deep; the tower mfgr said min. of 45"; ARRL handbook
>> says 6' but only 30" sq, depending on the type of soil.
>>
> I don't know that I'd use the ARRL handbook as a source for
> structural/civil engineering data. The figures in the "assembling a
> station" chapter in my 1990 handbook are just an example for a TriEx
> LM-470 or for a Wilson ST-77B, not a general recommendation for all
> towers. In fact, the last sentence in the section is:
> "Once you have that information, contact the engineering department of
> your tower manufacturer or a civil engineer"
>
> Following the mfr recommendations is probably the best bet. (and that's
> if they're the *current* recommendations.. engineering and construction
> standards are always evolving, what was acceptable in 1960 might not be
> acceptable today)
>
> That said, there's a lot of possible tradeoffs in tower bases, even for
> the same kind of tower in the same location. skinny and deep vs wide and
> shallow is one. If you're not taking the manufacturer's recommendation,
> then you probably need to get someone with some engineering expertise to
> tell you whether what you want to do is reasonable.

My thoughts, too, to use the mfg recommendation (45" deep) so I made it 52" deep. I can't see it not doing the job. Tower is HD aluminum and I'm staying within all specs. Rated for 12 sq ft @ 87 mph; my wind load is about 10 sq ft. Highest winds we had w/Hurr. Ike were between 85-90 mph. The tower, however, will be protected by trees up to about 40', I could lower the antenna before a storm, and I have a house brace I'll probably use at 10'. The "Handbook" I referred to is a 2009 ARRL Antenna Book.

Today I was trying to spot the 3 guy wire supports. Have a problem with one, so I'm thinking of using 4. Instead of all being 120 degrees, one would be 90 degrees; other three 30 degrees apart. Problem is that one

of the 120 deg's would be right into my RV pad - not possible. An alternative to four would be to run one onto the end of the house roof, which I suspect would not be as sturdy as it should be?

Marv

1553. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 00:35:56 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gp4clc$2pt$1@news.jpl.nasa.gov>
Source record: 17077

D
>
> Regardless of the soil that your tower is sited upon, the total mass of
> the concrete must exceed the weight of the tower, the antenna's fixed
> upon and the estimated wind force that the tower will see. This is so
> that the center of gravity of the tower/antenna system is below ground
> level.

That's not how the design works..
Consider an extreme example.. you have a big tripod of a tower. The CG is well above ground level, yet it still won't tip over.
Or, you have 4 towers that stick out horizontally resting on the ground, and a 5th one sticking up (like clown feet sticking out). Again, the CG is above ground, but it won't tip.

For a guyed tower, the base is there to keep the bottom of the tower from sinking into the soil, or from moving sideways. A wide flat pad or a deep pillar both do this, although the wide flat pad might be better from the "floatation" standpoint, as long as the bending forces in the concrete aren't too high.

Consider the case where the base of the tower sits on rock, with a pier pin or similar to resist the shear loads.

For an unguyed tower, it's a bit different. The base has to prevent rotational motion. There's a bending moment applied to the concrete, which in turn pushes on the soil on the sides and bottom of the foundation (and, obviously, the concrete itself has to take the loads).

> Thirty yeas ago my local radio club installed a new tower. The tower was
> 180 feet tall with a 4 bay antenna. We had a hole 10feet on a side dug
> and filled with concrete. When the tower did fall it bent in two about
> 80 feet up and folded over. The base formed the bottom of the
> replacement tower and is still in service.

Folding in the middle somewhere is the most common failure mode for unguyed towers (after just falling intact), for the same reason that pencil points break the way they do, and tall chimneys don't fall intact. When it starts to fall, the whole thing is basically rotating, so the top end winds up with very high acceleration, and the bending forces get very high. It's a rotational inertia thing.

For guyed towers, it depends where the guys are, and whether the tower is failing by bending loads or by buckling under compression loads.

>
> Dave WD9BDZ

1554. Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 00:59:36 UTC
From: SteveO232 <SteveO232.3fbac61@radiobanter.com>
Message-ID: <SteveO232.3fbac61@radiobanter.com>
Source record: 17081

I'm trying to throw together a helix antenna, similar to one shown
here:
http://www.antenna-theory.com/antennas/travelling/helix.php

I'm trying to get it to have circular polarization, but it deviates
away from that pretty quickly away from the main beam. If my receive
antenna is also circularly polarized, is there a way to estimate the
polarization mismatch loss based on how skewed the polarization is?
Like if its elliptically polarized, how can you figure out how much
power a circularly polarized antenna would receive from this?

--
SteveO232

1555. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 01:07:43 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gp4egvlde1@news.jpl.nasa.gov>
Source record: 17078

MTV wrote:
> Jim Lux wrote:
>> MTV wrote:
>>> Allodoxaphobia wrote:
>>>> On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:
>>>>> Phase 2 was first digging the 36' x 36" x 45" hole for the base,
>>>>> then securing the tower rod base and pouring the concrete.
>>>>
>>>> A 36 foot deep hole ought to hold up a freestanding 100' tower --
>>>> or more! :-)
>>>>
>>>
>>> It's actually 52" deep; the tower mfgr said min. of 45"; ARRL
>>> handbook says 6' but only 30" sq, depending on the type of soil.
>>>
>> I don't know that I'd use the ARRL handbook as a source for
>> structural/civil engineering data. The figures in the "assembling a
>> station" chapter in my 1990 handbook are just an example for a TriEx
>> LM-470 or for a Wilson ST-77B, not a general recommendation for all
>> towers. In fact, the last sentence in the section is:
>> "Once you have that information, contact the engineering department of
>> your tower manufacturer or a civil engineer"
>>
>> Following the mfr recommendations is probably the best bet. (and
>> that's if they're the *current* recommendations.. engineering and
>> construction standards are always evolving, what was acceptable in
>> 1960 might not be acceptable today)
>>
>> That said, there's a lot of possible tradeoffs in tower bases, even
>> for the same kind of tower in the same location. skinny and deep vs
>> wide and shallow is one. If you're not taking the manufacturer's
>> recommendation, then you probably need to get someone with some
>> engineering expertise to tell you whether what you want to do is
>> reasonable.
>
> My thoughts, too, to use the mfg recommendation (45" deep) so I made it
> 52" deep. I can't see it not doing the job. Tower is HD aluminum and I'm
> staying within all specs. Rated for 12 sq ft @ 87 mph; my wind load is
> about 10 sq ft. Highest winds we had w/Hurr. Ike were between 85-90 mph.
> The tower, however, will be protected by trees up to about 40', I could
> lower the antenna before a storm, and I have a house brace I'll probably
> use at 10'. The "Handbook" I referred to is a 2009 ARRL Antenna Book.
>
hmm, rating of 87 mi/hr makes it sound like it was rated under the old

EIA-222-C Zone A(30 pounds/sf) which was average 87, peak 113.

That's roughly equivalent to what the more modern standard versions call a "basic wind speed" of 70 mi/hr. Given the more modern ways of doing the calculation, the square foot rating is probably half of your 12 sf, and that's at 70 mi/hr. (drag on tubes is different than flat plates, etc.) (and ick.. why can't Glen Martin give their ratings in the more modern TIA-222E, F or G system)

If you're in Harris county (where your call resolves to), you're in a 90 mi/hr zone, so the wind loads would be 65% higher, or, more depressingly, your tower's probably only rated to 3.6 square feet.

Not to say that it will inevitably collapse, but....

You want to be careful about combining reinforcing methods, because the loads may distribute in ways not intended. A tower is designed to flex under load.. the movement is what distributes the load over the entire structure. Adding a constraint somewhere can concentrate the load causing it to fail. A classic example in beginning structures classes is adding a gusset to a welded T joint that makes it weaker, because it concentrates the loads at the end of the gusset. Another example is the combination of 100# test piano wire and 100# test rope in parallel. The wire is much stiffer than the rope, so as the combination is loaded, the wire stretches very little, all the load goes on the wire, so it fails at not much more than 100#.

definitely, you want to consult the mfrs instructions.

> Today I was trying to spot the 3 guy wire supports. Have a problem with
> one, so I'm thinking of using 4. Instead of all being 120 degrees, one
> would be 90 degrees; other three 30 degrees apart. Problem is that one
> of the 120 deg's would be right into my RV pad - not possible. An
> alternative to four would be to run one onto the end of the house roof,
> which I suspect would not be as sturdy as it should be?

most residential roof construction is mostly designed to use gravity to keep the roof on and to support down forces. They don't resist upforce well (unless you're in an area where the code encourages straps.. hurricane areas, for instance), nor do they resist side loads. The house itself can usually take a fairly good side load (after all, there's all that surface area exposed to the wind), but the fascia boards on the roof can't, so you have a problem of transferring the loads from the antenna/guy to the structure of the house.

Different areas of the country have different construction practices to accommodate the loads that are important (e.g. my house in southern California is designed to resist shaking loads in shear from earthquakes, but I doubt the roof could take many feet of wet snow)

Watch out with 4 guys rather than 3.. The limiting thing on a guyed tower is the downforce on the tower under load. If you have 4 guys, you have more static load on the tower than with 3 (assuming you've

tensioned them the same), so you're that much closer to the failure point. Glen Martin doesn't have a whole lot of useful engineering data on their web site, so it's hard to even do a back of the envelope calculation of the buckling loads on the vertical tubes.

And you gotta love the picture of a bunch of guys standing underneath the tower they're tilting up without any sort of safety precautions.
>
> Marv
>

1556. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 02:33:18 UTC
From: Bill Wright <insertmybusinessname@f2s.com>
Message-ID: <WL2dncRA9v7jTCjUnZ2dnUVZ8h-dnZ2d@pipex.net>
Source record: 17079
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

"Arny Krueger" <arnyk@hotpop.com> wrote in message
news:LI6dnXWWIP60kyjUnZ2dnUVZ_rmdnZ2d@giganews.com...

Hypothetically (because you don't have enough time), if you were to have a
conversation with every person you encountered, I think you would find an
equal percentage of strange people.

> Sometimes a carefully-chosen tap with a hammer and/or a center punch can
> work marvels.

1557. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 05:03:36 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Kwmtl.100573$2h5.2976@newsfe11.iad>
Source record: 17080
Cross-posted to: alt.radio.digital,sci.electronics.repair,rec.audio.tech,rec.radio.amateur.antenna

"Bill Wright" <insertmybusinessname@f2s.com> wrote in message
news:WL2dncRA9v7jTCjUnZ2dnUVZ8h-dnZ2d@pipex.net...
>
> "Arny Krueger" <arnyk@hotpop.com> wrote in message
> news:LI6dnXWWIP60kyjUnZ2dnUVZ_rmdnZ2d@giganews.com...
>
> Hypothetically (because you don't have enough time), if you were to have a
> conversation with every person you encountered, I think you would find an
> equal percentage of strange people.
>
> > Sometimes a carefully-chosen tap with a hammer and/or a center punch
can
> > work marvels.

Excellent!

"Sal"

1558. Re: Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 07:27:14 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <mDotl.2321$%u5.2306@nwrddc01.gnilink.net>
Source record: 17082

"SteveO232" <SteveO232.3fbac61@radiobanter.com> wrote in message
news:SteveO232.3fbac61@radiobanter.com...
>
> I'm trying to throw together a helix antenna, similar to one shown
> here:
> http://www.antenna-theory.com/antennas/travelling/helix.php
>
> I'm trying to get it to have circular polarization, but it deviates
> away from that pretty quickly away from the main beam. If my receive
> antenna is also circularly polarized, is there a way to estimate the
> polarization mismatch loss based on how skewed the polarization is?
> Like if its elliptically polarized, how can you figure out how much
> power a circularly polarized antenna would receive from this?
>
>
>
>
> --
> SteveO232

Hi Steve

I dont have the answer I think you are asking for. I have wondered how
to estimate the amount of signal loss to expect from my antenna when it is
elliptically polarized and receiving a circularly polarized signal.
I decided the math was too difficult for me and thought of it this way --
If my antenna is linearly polarized, it will be 3 dB down in sensitivity
from ideal.
If I am willing to assume that by making my Axial Ratio smaller, the
received signal will increase LINEARLY with the added orthogonal component,
an AR of .5 will be about 1.5 dB down from ideal.

I hope you get a better explanation of the desensititization related to
having an AR less than unity. I'd like to learn too.

Jerry KD6JDJ

1559. Re: Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 11:09:18 UTC
From: Bob Bob <bob3bob3@suddenlink.net>
Message-ID: <vbuh86-1d8.ln1@p400bob.personal.cox.net>
Source record: 17083

Hi Steve

Having absolutely nothing to do with your question but thought I'd mention it...

Be aware that in a reflective/multipath environment you get a polarization reversal. This makes for loss not unlike linear cross polarization issues but only for the 1st, 3rd, 5th etc reflection. Although I have never looked into it this would seem a useful feature for data comms where out of sync/delayed signals might be a problem.

My first though to your actual question though would be to use a linear antenna and rotate it whilst recording the signal level. Since however you want to use a circular RX antenna you may be able to use the reflection behaviour above to get some information. It appears however that you want the maths, which I am also not really up to.

Cheers Bob VK2YQA

SteveO232 wrote:
> I'm trying to throw together a helix antenna, similar to one shown
> here:
> http://www.antenna-theory.com/antennas/travelling/helix.php
>
> I'm trying to get it to have circular polarization, but it deviates
> away from that pretty quickly away from the main beam. If my receive
> antenna is also circularly polarized, is there a way to estimate the
> polarization mismatch loss based on how skewed the polarization is?
> Like if its elliptically polarized, how can you figure out how much
> power a circularly polarized antenna would receive from this?
>
>
>
>

1560. Re: Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 12:45:14 UTC
From: dave <dave@dave.dave>
Message-ID: <262dnej6XvRG_SvUnZ2dnUVZ_vvinZ2d@earthlink.com>
Source record: 17084

Steve0232 wrote:
> I'm trying to throw together a helix antenna, similar to one shown
> here:
> http://www.antenna-theory.com/antennas/travelling/helix.php
>
> I'm trying to get it to have circular polarization, but it deviates
> away from that pretty quickly away from the main beam. If my receive
> antenna is also circularly polarized, is there a way to estimate the
> polarization mismatch loss based on how skewed the polarization is?
> Like if its elliptically polarized, how can you figure out how much
> power a circularly polarized antenna would receive from this?
>
>

I use those daily. There are better forms of helical that are much
cleaner off-axis.

1561. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 13:28:42 UTC
From: "J. Mc Laughlin" <jcm@power-net.net>
Message-ID: <rLqdnVhoFfCU9ivUnZ2dnUVZ_q_inZ2d@bright.net>
Source record: 17085

Dear Marv W5MTV:

Your antenna system is complex enough that you should have it analyzed by a professional engineer who has experience with TIA 222G standard. Understanding of what constitutes safe tower practice has evolved a great deal over the past many years. An early version of 222 was much shorter than the current 222G standard. Unfortunately, some antenna and tower manufacturers are still using earlier standards.

Not to have the system evaluated could cause big problems if something fails.

73, Mac N8TT

--
J. McLaughlin; Michigan, USA
Home: JCM@power-net.net
"MTV" <volztexas355@comcast.net> wrote in message
news:ujBsl.21032$Yx2.18103@en-nntp-06.dc1.easynews.com...
> For what it's worth - may be interesting to those contemplating a similar
> project:
>
> Phase 1 was finding 'such a deal' on a full sized 7-element Mosley Pro
> 57-B five band beam. Also researching towers that I wouldn't have to climb
> and still reach above my trees of 30-45'. e.g. 50' tower.
>
> My first choice was a Heights crank-up, but cost moved me to Glen Martin
> Engineering's M-1350A package deal. (13" wide legs; 50' high w/guys) and
> their "Hazer" system to raise and lower the beam (with one or two guys
> temporarily disconnected at the ground).
>
> Phase 2 was first digging the 36' x 36" x 45" hole for the base, then
> securing the tower rod base and pouring the concrete.
>
> It took almost two weeks of occasional digging with a handy small
> "striker" shovel to dig the hole. That shovel holds just what I can lift
> up to the wheel barrow, and is easy to maneuver in the hole. I used a wood
> 2 x 4 frame which is also used for the top of the concrete platform. Easy
> then to keep sides vertical in line with the frame. The soil is a firm
> clayish-dirt mix. A problem not explained is what to use in the hole to
> support the metal tower rod base which only goes 28" into the hole. Why
> don't the manufacturers just make available longer rod supports? I ended
> up using concrete blocks under each of the 3 tower rods with a couple
> bricks on top to just equal the requirement for the rods with nuts to
> extend above the concrete the proper length. One handbook suggested a

> rebar wire cage in the hole, but I had no way to bend or weld rebar. I did
> try, driving around one morning to various shops with welding equipment,
> but none could or would do it. So, I cut various lengths of rebar and
> wired them at various angles and levels to the base and through the cinder
> blocks without going into the dirt sides. It made lots of surface area for
> concrete adherence.
>
> The concrete: I'd checked some local concrete companies and had only two
> that responded with any interest. Actually, the closest to my home quoted
> me a price of $426 when I stopped by and asked, including a $125 delivery
> charge. Yikes! And it was close by and my "hole" was accessible so the
> truck could back right up and dump the load. As it turned out, when I was
> ready for the delivery I stopped by to prepay, and they lowered their
> price to $195 for 1.5 cu. yds., 3000+ spec, and no charge for delivery.
> I'd expected delivery in a few days, but they said they'd be over in about
> 15 minutes. They were, made the delivery, cleaned up their chutes, and in
> another 30 minutes I had it all smoothed out and finished!
>
> I'll be letting it dry for at least a week. Now I'll be on to Phase 3,
> driving guy anchors into the ground, assembling the tower pieces, and
> preparing for the "several guys" walking up the tower into the air with
> the hinge mount in the base secure.
>
> To be continued
>
> Marv W5MTV

1562. Re: Tower project - Phase 2 Complete

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 19:24:33 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <T7ztl.33551$rp7.20903@en-nntp-02.dc1.easynews.com>
Source record: 17086

Jim Lux wrote:
> MTV wrote:
>> Jim Lux wrote:
>>> MTV wrote:
>>>> Allodoxaphobia wrote:
>>>>> On Sat, 07 Mar 2009 15:03:33 -0600, MTV wrote:

Thanks Jim,

Since I'm in far NW Harris County I'm in the "35 psf" zone, whatever
that is. Right on the coast is "45 psf."

Yes, we have hurricane straps.

As far as the max wind speed I trust the actual we had w. Hurr. Ike and
Rita. When Ike came back from the north, we were on dead on the eye of
the storm and locally measured 87 mph at IAH. It was 'winding down' at
that time, but still toppled huge trees all around. Just lost one on our
property, but just missed demolitioning one home. Of course, it was one
of those "100 year storms" that we've had three of now in 20 yrs.

The max vertical weight on the tower per leg is 8750 lbs so I doubt one
more guy would matter. Good advice on not using house bracket. My
thought was that it would be a safety factor when guys would be down
when raising the antenna. Of course, I wouldn't do anything with a
strong wind blowing.

I have two engineer son-in-laws that should be able to calculate per
modern stds.

Marv

>
> most residential roof construction is mostly designed to use gravity to
> keep the roof on and to support down forces. They don't resist upforce
> well (unless you're in an area where the code encourages straps..
> hurricane areas, for instance), nor do they resist side loads. The house
> itself can usually take a fairly good side load (after all, there's all
> that surface area exposed to the wind), but the fascia boards on the
> roof can't, so you have a problem of transferring the loads from the
> antenna/guy to the structure of the house.
>
> Different areas of the country have different construction practices to
> accommodate the loads that are important (e.g. my house in southern
> California is designed to resist shaking loads in shear from
> earthquakes, but I doubt the roof could take many feet of wet snow)
>

>
> Watch out with 4 guys rather than 3.. The limiting thing on a guyed
> tower is the downforce on the tower under load. If you have 4 guys, you
> have more static load on the tower than with 3 (assuming you've
> tensioned them the same), so you're that much closer to the failure
> point. Glen Martin doesn't have a whole lot of useful engineering data
> on their web site, so it's hard to even do a back of the envelope
> calculation of the buckling loads on the vertical tubes.
>
> And you gotta love the picture of a bunch of guys standing underneath
> the tower they're tilting up without any sort of safety precautions.
>>
>> Marv
>>

1563. Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 19:55:52 UTC
From: xray66@earthlink.net
Message-ID: <ef185f5b-c12c-464c-9dfa-63d88df083b6@y13g2000yqn.googlegroups.com>
Source record: 17087

Does anyone know if there's a way I could test using an analyzer that does about 50-500 MHz, but at a 1000-ish frequency? I need to test something in that area, but I don't have equipment that will go that high. Seems like any analyzer that goes that high is thousands of dollars. Does anyone know if there's somebody that rents Anritsus in SoCal maybe? Any suggestions are welcome. I mainly just need to do SWR.

Thanks,

1564. Re: VHF Handbook

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 20:54:00 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <4b201538-446d-4f81-b829-bc0c0cd84ab4@e5g2000vbe.googlegroups.com>
Source record: 17088

On Mar 2, 9:50 pm, "Harry H" <harryha...@hotmail.com> wrote:
> I am trying to source a readable copy of Orr & Johnsons "VHF Handbook".
>
> I have found a copy, but the "heavy wear" description is just that, some
> pages are unreadable.
>
> If anyone can help me, either with a reasonable hard copy or a PDF file or a
> copy on a CD, I would be very grateful.
>
> 73
> HH

VHF/UHF Handbook by Dick Biddulph G8DPS is also a good book. I built a
2M
amp from plans in the book. That alone was worth the $35 cost.

Jimmie

1565. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 21:07:11 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gp6kpnmlg1@news.jpl.nasa.gov>
Source record: 17090

xray66@earthlink.net wrote:
> Does anyone know if there's a way I could test using an analyzer that
> does about 50-500 MHz, but at a 1000-ish frequency? I need to test
> something in that area, but I don't have equipment that will go that
> high. Seems like any analyzer that goes that high is thousands of
> dollars. Does anyone know if there's somebody that rents Anritsus in
> SoCal maybe? Any suggestions are welcome. I mainly just need to do
> SWR.
>
> Thanks,
Test what? for what parameter? reflection coefficient? SWR?

There are lots of equipment rental places in southern California. google
is your friend. ElectroRents, Telogy, etc.

Something like the Anritsu SiteMaster? They're about $7000-8000 to buy,
so I'd expect a monthly rental (for short term) to be in the $700 range.

1566. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 21:34:24 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <A1Btl.2477$%u5.352@nwrddc01.gnilink.net>
Source record: 17089

<xray66@earthlink.net> wrote in message
news:ef185f5b-c12c-464c-9dfa-63d88df083b6@y13g2000yqn.googlegroups.com...
> Does anyone know if there's a way I could test using an analyzer that
> does about 50-500 MHz, but at a 1000-ish frequency? I need to test
> something in that area, but I don't have equipment that will go that
> high. Seems like any analyzer that goes that high is thousands of
> dollars. Does anyone know if there's somebody that rents Anritsus in
> SoCal maybe? Any suggestions are welcome. I mainly just need to do
> SWR.
>
> Thanks,

Do you have an amateur radio license? There are clubs in the Southern
California area.

Jerry KD6JDJ

1567. Re: Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 22:26:34 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <49B6E91A.2080102@spam.please.net>
Source record: 17091

Bob Bob wrote:
> Be aware that in a reflective/multipath environment you get a
> polarization reversal.

Interesting thought. That means that with two antennas,
one clockwise and one ccw, you could adaptively mix the
two signals to cancel the 1st reflections.

Clifford Heath.

1568. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-10 23:28:54 UTC
From: xray66@earthlink.net
Message-ID: <63f55350-36e3-452e-aa88-18edbd383fab@p20g2000yqi.googlegroups.com>
Source record: 17092

I did find Electrorents. $700 for a month... I didn't think it would be that much. It's mainly just for basic stuff, like SWR. I'm not a ham. Seems like anything that goes past 500 MHz is really expensive.

1569. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 01:57:37 UTC
From: dave <dave@dave.dave>
Message-ID: <iqmdnbL-UuQMhyrUnZ2dnUVZ_qHinZ2d@earthlink.com>
Source record: 17093

xray66@earthlink.net wrote:
> I did find Electrorents. $700 for a month... I didn't think it would
> be that much. It's mainly just for basic stuff, like SWR. I'm not a
> ham. Seems like anything that goes past 500 MHz is really expensive.

What kind of power? You can use a Bird meter for VSWR.

1570. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 01:58:52 UTC
From: dave <dave@dave.dave>
Message-ID: <iqmdna3-UuRBhyrUnZ2dnUVZ_qHinZ2d@earthlink.com>
Source record: 17094

xray66@earthlink.net wrote:
> I did find Electrorents. $700 for a month... I didn't think it would
> be that much. It's mainly just for basic stuff, like SWR. I'm not a
> ham. Seems like anything that goes past 500 MHz is really expensive.

http://birdtechnologies.thomasnet.com/viewitems/wattmeters-and-line-sections/portable-wattmeters?&forward=1

1571. Re: Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 10:43:20 UTC
From: Bob Bob <bob3bob3@suddenlink.net>
Message-ID: <87hk86-dkb.ln1@p400bob.personal.cox.net>
Source record: 17095

Fun stuff!

I actually found this behaviour in experimentation (or rather I noted what was already in the theory books). I was looking at mobile FM ops on 70cm and had found that horiz polarization yielded a much lesser peak/null phase addition problem ("picket fencing") than on vertical (the antenna aperture being wider in the horiz plane). I went to circular in an attempt to test if there was a large enough component of major polarization shift from multpile refectections, and promptly lost most of the first reflection. On the whole it was about a 3dB loss (9-12dB having been the horiz vs vert improvement) but that was very terrain amd obstruction dependent.

It was a pity because the mobile antenna looked real trendy! (A skew planar loop)

Cheers Bob VK2YQA

Clifford Heath wrote:
> Bob Bob wrote:
>> Be aware that in a reflective/multipath environment you get a
>> polarization reversal.
>
> Interesting thought. That means that with two antennas,
> one clockwise and one ccw, you could adaptively mix the
> two signals to cancel the 1st reflections.
>
> Clifford Heath.

1572. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 11:08:18 UTC
From: Bob Bob <bob3bob3@suddenlink.net>
Message-ID: <3mik86-6mb.ln1@p400bob.personal.cox.net>
Source record: 17096

A couple of options here. Not knowing your actual need for accuracy etc makes it hard to guess!

From my standpoint I'd probably just adjust an antenna for max field strength but if I wanted actual VSWR meaurement or minimizing same I'd probably use a directioinal coupler and a sensitive voltmeter.

A DC is essentially the active component of a power/VSWR measuring device. AT 1GHz I have seen PCB designs with SMA connectors that you just put in circuit, measure the volts, reverse its direction, measure the volts again and calculate the VSWR. Pretty simple and cheap stuff. The biggest problem is preserving the impedance across the DC device itself. You can use teflon PC board for example to help out on this. You will also need to think about the calibration of the thing because the diode is not a linear device and needs some volts to get over the forward drop. You can also DC bias it but those components will affect accuracy over temperature change etc.

Still a good general purpose tool though. You can even make loads that would look like known impedances to calibrate the thing.

Have a look around for these. You'll be impressed by the low price. They are after all just a lump of PCB, two connectors, a microwave diode and a filter cap! You'll have to supply your own voltmeter!

Cheers Bob VK2YQA

xray66@earthlink.net wrote:
> I did find Electrorents. $700 for a month... I didn't think it would
> be that much. It's mainly just for basic stuff, like SWR. I'm not a
> ham. Seems like anything that goes past 500 MHz is really expensive.

1573. Most important changes for the Amateur's services in Portugal.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 12:26:07 UTC
From: CT1FBF <ct1fbf@sapo.pt>
Message-ID: <1bb30960-50e3-413c-9cf5-1fd74242a543@r36g2000vbp.googlegroups.com>
Source record: 17097

Here are the most important changes introduced by the new Law 53/2009,
for the Amateur's services in Portugal:

* Introduction of 3 new Ham class - named: 1, 2 and 3 - that will co-
inhabit with the actual 3 (closed for new admissions A, B, C). So from
now all 6 class will co-exist.

* Minimum age to became HAM will be 12 years old (actually 16 year
old).

* The entry-class will be mandatory class 3.

* Entry class 3 amateur´s radio must:

* stay 2 years, minimum, on that class;

* use 5 year maximum to apply for a class 2 permit. If they fail to
get that permit they will lose the CAN;
* use his station for reception only. For transmission they must use
another licensed (from other class) amateur-radio station. In this
case the presence of the owner is mandatory, acting as supervisor.

* The old "station permit" is extincted, being substituted by the CAN
- National Amateur Certificate (who allows a main fixed station, one
additional fixed station, a mobile station and a portable station).

* Automatic renewal of CAN that have a initial 10 years validity.

* Creation of community stations - club stations.

* Creation of IOCA - special callsigns valid for one year.

The new Law will be effective on 1st June 2009.

More info, in portuguese; http://ct-spot.blogspot.com/

Best Regards from,
CT-Spot News Team.

1574. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 12:36:56 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <26ec191a-9840-4d08-9f84-1ab646ebfefa@v15g2000yqn.googlegroups.com>
Source record: 17098
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Mar 11, 1:04 am, Steve <moparho...@hotmail.com> wrote:
>
grow up

1575. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 12:41:04 UTC
From: kb9rqz@yahoooo.com
Message-ID: <nacfr45c6p8hl001fufu6btsu66ko6o3en@4ax.com>
Source record: 17099
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Wed, 11 Mar 2009 05:36:56 -0700 (PDT), k3vr <k3vr@ymail.com> wrote:

>On Mar 11, 1:04ï¿½am, Steve <moparho...@hotmail.com> wrote:
>>
>grow up
amen to that

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1576. Re: Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 14:25:43 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <57fdb900-8b1a-4f86-ad47-9b2b0878909a@p11g2000yqe.googlegroups.com>
Source record: 17100

On Mar 10, 5:26 pm, Clifford Heath <n...@spam.please.net> wrote:
> Bob Bob wrote:
> > Be aware that in a reflective/multipath environment you get a
> > polarization reversal.
>
> Interesting thought. That means that with two antennas,
> one clockwise and one ccw, you could adaptively mix the
> two signals to cancel the 1st reflections.

A c-pol receive antenna having the same rotation sense as a direct-path, c-pol radiated wave will reject reflections/re-reflections of it from any odd number of surfaces. The first-surface source usually is the dominant source of reflections.

However if the rotation sense of a c-pol receive antenna is opposite that of the transmit antenna, then it will reject the direct path signals and receive only those reflections of it.

RF

1577. More reflectors = better?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 15:46:25 UTC
From: Usual Suspect <reply@thegroup.net>
Message-ID: <0001HW.C5DD2AE101A1C1C2B02049AF@news.sf.sbcglobal.net>
Source record: 17001
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

Hoverman design for UHF TV:

<http://www.digitalhome.ca/ota/superantenna/design.htm>

More reflectors would make it easier to bond them together (ie, a screen with only horizontal elements) for more physical strength.

Does adding more reflectors introduce any negative byproducts?

I see that in this design the reflectors are of particular lengths. Does this imply that lengthening them is counterproductive?

Thanks.
--
Al, the usual

1578. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 18:08:11 UTC
From: xray66@earthlink.net
Message-ID: <cd5b362f-ef6b-416a-893e-31735c70fbe0@41g2000yqf.googlegroups.com>
Source record: 17002

Thanks guys... Some of these ideas might work. Sorry, I should have given more details... It's basically receive antennas in the 1000 MHz range, and I don't have access to the transmitters that will be used with them. I'm just trying to find a way to see where they're tuned and then be able to tune them if they're off. So if I went with an SWR meter, maybe there's an easy way to generate a signal to use that? I have an Autek that goes to 500 MHz. Somebody mentioned using a frequency doubler, but I'm not sure how that would work.

1579. WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 18:14:42 UTC
From: cuhulin@webtv.net
Message-ID: <15312-49B7FF92-609@storefull-3171.bay.webtv.net>
Source record: 17003

Exactly two weeks ago on a Wednesday, I ordered an MFJ Wide Area High Gain 1802 WiFi Antenna from www.MFJEnterprises.com (Hot New Products)

Yesterday, I phoned MFJ Enterprises to check on the status of my antenna.The lady at MFJ Enterprises told me it is on back order and she will try to send it out this week.

That is OK with me though, I am not in a big hurry anyway, I don't know why I ordered the antenna, sometimes I buy thingys I like and hardley ever get around to using some of them.

What are some neat uses I can use my WiFi antenna for? As long as they are Legal thingys, that is.
cuhulin, the WiFi Dummy

1580. Re: More reflectors = better?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 18:40:01 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <37bfffac-513e-47af-8fd1-a048ae8e4d37@o11g2000yql.googlegroups.com>
Source record: 17004
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

On Mar 11, 8:46 am, Usual Suspect <re...@thegroup.net> wrote:
> Hoverman design for UHF TV:
>
> <http://www.digitalhome.ca/ota/superantenna/design.htm>
>
> More reflectors would make it easier to bond them together (ie, a screen with
> only horizontal elements) for more physical strength.
>
> Does adding more reflectors introduce any negative byproducts?
>
> I see that in this design the reflectors are of particular lengths. Does this
> imply that lengthening them is counterproductive?
>
> Thanks.
> --
> Al, the usual

From the discussion on that website, they make it sound like the
antenna is pretty insensitive to whether a reflector screen or
individual tuned reflectors are used. But it's obvious that there've
been several folk involved with modelling and building these antennas
in that group. Have you tried asking them? Seems like they're the
ones with the experience.

It's nice to see a practical homebrew antenna design like that.
Thanks for posting the link.

Cheers,
Tom

1581. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 19:23:52 UTC
From: dave <dave@dave.dave>
Message-ID: <49b80fc8$0$31153$bd467cd0@news.dslextreme.com>
Source record: 17005

xray66@earthlink.net wrote:
> Thanks guys... Some of these ideas might work. Sorry, I should have
> given more details... It's basically receive antennas in the 1000 MHz
> range, and I don't have access to the transmitters that will be used
> with them. I'm just trying to find a way to see where they're tuned
> and then be able to tune them if they're off. So if I went with an SWR
> meter, maybe there's an easy way to generate a signal to use that? I
> have an Autek that goes to 500 MHz. Somebody mentioned using a
> frequency doubler, but I'm not sure how that would work.

You need a spectrum analyzer with tracking generator option. Or a
network analyzer.

1582. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 19:47:49 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <FzUtl.2644$%u5.662@nwrddc01.gnilink.net>
Source record: 17006

<xray66@earthlink.net> wrote in message
news:cd5b362f-ef6b-416a-893e-31735c70fbe0@41g2000yqf.googlegroups.com...
> Thanks guys... Some of these ideas might work. Sorry, I should have
> given more details... It's basically receive antennas in the 1000 MHz
> range, and I don't have access to the transmitters that will be used
> with them. I'm just trying to find a way to see where they're tuned
> and then be able to tune them if they're off. So if I went with an SWR
> meter, maybe there's an easy way to generate a signal to use that? I
> have an Autek that goes to 500 MHz. Somebody mentioned using a
> frequency doubler, but I'm not sure how that would work.

Hi

It has been my experience that the input impedance to the antenna can be
fairly well predictated by EZNEC is you are able to describe the antenna to
the program.

Jerry KD6JDJ

1583. Re: Polarization Loss?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 19:52:02 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <x8ydnf7o17z5iyXUnZ2dnUVZ_hGWnZ2d@posted.easystreetonline>
Source record: 17007

Steve0232 wrote:
> I'm trying to throw together a helix antenna, similar to one shown
> here:
> http://www.antenna-theory.com/antennas/travelling/helix.php
>
> I'm trying to get it to have circular polarization, but it deviates
> away from that pretty quickly away from the main beam. If my receive
> antenna is also circularly polarized, is there a way to estimate the
> polarization mismatch loss based on how skewed the polarization is?
> Like if its elliptically polarized, how can you figure out how much
> power a circularly polarized antenna would receive from this?

The mismatch won't exceed 3 dB as long as the sense (right or left hand) of the elliptically polarized wave is the same as the receiving antenna. Here's why:

An elliptically polarized wave can be mathematically split into left hand and right hand circular components just like a linearly polarized wave can be split into orthogonal (e.g., vertical and horizontal) components. A right hand circularly polarized antenna will respond only to the right hand component of the elliptically polarized wave, and a left hand circularly polarized antenna will respond only to the left hand component. So the general answer to your question is that the received signal will be proportional to the circularly polarized component of the wave which has the same sense as the receive antenna.

As you make a right hand (for example) circularly polarized wave more elliptical, the right hand component decreases and the left hand component increases. This continues until the wave becomes linearly polarized, in which case the constituent right and left hand circular components are equal and 3 dB less than the total, linearly polarized component. If the wave becomes elliptical and increasingly circular in the other sense (left handed for the example), the right hand component continues to decrease and the left hand component continues to increase. When the wave becomes completely left handed circular, the right hand component is zero, so there will be infinite attenuation when received with a right hand circular antenna.

In general, both the transmit and receive antenna will be elliptical, so both components (right and left handed) have to be evaluated separately and summed.

Me, I'd just model the system with EZNEC+ and let it figure it out for me. A number of other programs are able to do it also.

Roy Lewallen, W7EL

1584. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 19:56:40 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <S_KdneqdK43niiXUnZ2dnUVZ_hSWnZ2d@posted.easystreetonline>
Source record: 17008

xray66@earthlink.net wrote:
> Thanks guys... Some of these ideas might work. Sorry, I should have
> given more details... It's basically receive antennas in the 1000 MHz
> range, and I don't have access to the transmitters that will be used
> with them. I'm just trying to find a way to see where they're tuned
> and then be able to tune them if they're off. So if I went with an SWR
> meter, maybe there's an easy way to generate a signal to use that? I
> have an Autek that goes to 500 MHz. Somebody mentioned using a
> frequency doubler, but I'm not sure how that would work.

If you know the antenna impedance at resonance is tolerable, then SWR is adequate. If you'll need to design a matching network, though, you'll need to know separate R and X components, so you'd need a network analyzer or equivalent.

Have you ever calculated how much signal loss occurs as a result of mismatch? You might find you're wasting your time bothering with it.

Roy Lewallen, W7EL

1585. Re: WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 19:58:47 UTC
From: dplatt@radagast.org
Message-ID: <nohl86-nmr.ln1@radagast.org>
Source record: 17009

In article <15312-49B7FF92-609@storefull-3171.bay.webtv.net>,
<cuhulin@webtv.net> wrote:

>Exactly two weeks ago on a Wednesday, I ordered an MFJ Wide Area High
>Gain 1802 WiFi Antenna from www.MFJEnterprises.com (Hot New
>Products)
>
>Yesterday, I phoned MFJ Enterprises to check on the status of my
>antenna.The lady at MFJ Enterprises told me it is on back order and she
>will try to send it out this week.
>
>That is OK with me though, I am not in a big hurry anyway, I don't know
>why I ordered the antenna, sometimes I buy thingys I like and hardley
>ever get around to using some of them.
>
>What are some neat uses I can use my WiFi antenna for? As long as they
>are Legal thingys, that is.

The first thing that you ought to do, is check the specs and
literature for the WiFi radio (card, access point, etc.) you're
planning to use it with. Find out whether this radio was certificated
(i.e. tested for compliance by the manufacturer) with an antenna
having a gain level of 8 dBi or more.

If it hasn't - if the radio was only certificated with an antenna with
less gain - then you cannot use the MJF antenna with the radio, and
transmit, without violating the radio's Part 15 certification. You
would be transmitting illegally.

You could still use the gain antenna with the radio in a "receive
only" mode (turning off the transmitter entirely). This could allow
you to do site-surveys, "wardriving", and signal strength evaluations.

If your WiFi radio was certificated with an antenna of 8 dBi or higher
gain, then you can use the MJF antenna with that radio. The usual
"neat uses" would be for setting up area or point-to-point links, over
distances greater than what you could achieve with a lower-gain
antenna (or in the face of interference, where the front-to-back and
front-to-side rejection of the gain antenna would help reduce the
impact of the interference).

8 dBi isn't particularly high-gain, as such things go. Even a simple
dipole is around 2 dBi. The additional 6 dB of gain will roughly
double the distance over which you can achieve a WiFi link.

People doing long-distance point-to-point or point-to-multipoint WiFi
often use gains of 19 dBi or higher... parabolic dish antennas and the
like.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1586. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 21:01:28 UTC
From: xray66@earthlink.net
Message-ID: <703f1bbb-5723-4832-855a-9470211cdcf6@q11g2000yqh.googlegroups.com>
Source record: 17010

On Mar 11, 12:56 pm, Roy Lewallen <w...@eznec.com> wrote:
> xra...@earthlink.net wrote:
> > Thanks guys... Some of these ideas might work. Sorry, I should have
> > given more details... It's basically receive antennas in the 1000 MHz
> > range, and I don't have access to the transmitters that will be used
> > with them. I'm just trying to find a way to see where they're tuned
> > and then be able to tune them if they're off. So if I went with an SWR
> > meter, maybe there's an easy way to generate a signal to use that? I
> > have an Autek that goes to 500 MHz. Somebody mentioned using a
> > frequency doubler, but I'm not sure how that would work.
>
> If you know the antenna impedance at resonance is tolerable, then SWR is
> adequate. If you'll need to design a matching network, though, you'll
> need to know separate R and X components, so you'd need a network
> analyzer or equivalent.
>
> Have you ever calculated how much signal loss occurs as a result of
> mismatch? You might find you're wasting your time bothering with it.

Believe me, I tend to agree... As is, they tend to be about a 4.0:1
and maybe 55 MHz off the mark on average. But like I said, this is a
receive application in 1000 MHz. So real world, you wouldn't even hear
a difference in that. But it's a numbers game and they won't be happy
until they see the right numbers. But that's why it's hard for me to
justify spending big bucks for the ability to test this.

And Jerry, good idea... I actually did run the design as a model, but
it showed that it should be correct as is. So something else is
setting them off a bit. Probably the radomes or something.

1587. Re: Testing at higher frequencies

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 21:12:41 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <dPVtl.2526$gm6.2362@nwrddc02.gnilink.net>
Source record: 17011

<xray66@earthlink.net> wrote in message
news:703f1bbb-5723-4832-855a-9470211cdcf6@q11g2000yqh.googlegroups.com...
On Mar 11, 12:56 pm, Roy Lewallen <w...@eznec.com> wrote:
> xra...@earthlink.net wrote:
> > Thanks guys... Some of these ideas might work. Sorry, I should have
> > given more details... It's basically receive antennas in the 1000 MHz
> > range, and I don't have access to the transmitters that will be used
> > with them. I'm just trying to find a way to see where they're tuned
> > and then be able to tune them if they're off. So if I went with an SWR
> > meter, maybe there's an easy way to generate a signal to use that? I
> > have an Autek that goes to 500 MHz. Somebody mentioned using a
> > frequency doubler, but I'm not sure how that would work.
>
> If you know the antenna impedance at resonance is tolerable, then SWR is
> adequate. If you'll need to design a matching network, though, you'll
> need to know separate R and X components, so you'd need a network
> analyzer or equivalent.
>
> Have you ever calculated how much signal loss occurs as a result of
> mismatch? You might find you're wasting your time bothering with it.

Believe me, I tend to agree... As is, they tend to be about a 4.0:1
and maybe 55 MHz off the mark on average. But like I said, this is a
receive application in 1000 MHz. So real world, you wouldn't even hear
a difference in that. But it's a numbers game and they won't be happy
until they see the right numbers. But that's why it's hard for me to
justify spending big bucks for the ability to test this.

And Jerry, good idea... I actually did run the design as a model, but
it showed that it should be correct as is. So something else is
setting them off a bit. Probably the radomes or something.

Hi

You need only a decent L-band generator, a directional coupler, and a
detector to get the VSWR. Where is SoCal?

Jerry KD6JDJ

1588. Re: WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 21:37:32 UTC
From: dave <dave@dave.dave>
Message-ID: <49b82f1f$0$31174$bd467cd0@news.dslextreme.com>
Source record: 17012

Dave Platt wrote:

> The first thing that you ought to do, is check the specs and
> literature for the WiFi radio (card, access point, etc.) you're
> planning to use it with. Find out whether this radio was certificated
> (i.e. tested for compliance by the manufacturer) with an antenna
> having a gain level of 8 dBi or more.
>
> If it hasn't - if the radio was only certificated with an antenna with
> less gain - then you cannot use the MJF antenna with the radio, and
> transmit, without violating the radio's Part 15 certification. You
> would be transmitting illegally.
>
The horror...

If the Wifi card has a standard connector it should be OK with an
aftermarket antenna. If it has an oddball connector it must be used
with a specific antenna.

In any case, there is no one enforcing Part 15 compliance in the field.

1589. Re: WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-11 22:37:29 UTC
From: dplatt@radagast.org
Message-ID: <92rl86-4jv.ln1@radagast.org>
Source record: 17013

In article <49b82f1f$0$31174$bd467cd0@news.dslextreme.com>,
dave <dave@dave.dave> wrote:

>The horror...
>
>In any case, there is no one enforcing Part 15 compliance in the field.

True... it's rare, and seems to happen only after strenuous
complaints. I *have* heard of it happening, though.

>If the Wifi card has a standard connector it should be OK with an
>aftermarket antenna. If it has an oddball connector it must be used
>with a specific antenna.

That's not the intent of the FCC regulations.

The FCC requires that consumer-type WiFi radios *must* use nonstandard
connectors (for arguable definitions of "nonstandard"). Specifically,
47 CFR 15.203 says:

An intentional radiator shall be designed to ensure that no
antenna other than that furnished by the responsible party
shall be used with the device. The use of a permanently
attached antenna or of an antenna that uses a unique coupling
to the intentional radiator shall be considered sufficient to
comply with the provisions of this Section. The manufacturer
may design the unit so that a broken antenna can be replaced
by the user, but the use of a standard antenna jack or
electrical connector is prohibited... (snip)... the installer
shall be responsible for ensuring that the proper antenna is
employed so that the limits in this Part are not exceeded.

Manufacturers have asked that the "unique coupling" rule be relaxed...
they complain that every time they come up with a new "unique"
connector (e.g. reverse-polarity or reverse-threaded versions of SMA,
TNC, etc.), it rapidly becomes so popular and so easy to acquire that
they have to stop using it and find a *different* new non-standard
connector... lather, rinse, repeat.

The FCC refused to remove this requirement, the last time that the
issue was the subject of a rulemaking (although they did add the above
language which permits a broken antenna to be replaced by the user...
previously even this was essentially forbidden).

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior

I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

1590. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 03:35:54 UTC
From: joeturn <joeturn2000@yahoo.com>
Message-ID: <2c305da5-ca86-4dba-be8d-d1ebce4f2837@l16g2000yqo.googlegroups.com>
Source record: 17014
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced

On Feb 17, 2:10 pm, "JB" <nos...@goofball.net> wrote:
> "Van Chocstraw" <boobooililili...@roadrunner.com> wrote in message
>
> news:gtSdnRwMBfmIVgfUnZ2dnUVZ_r-dnZ2d@giganews.com...> Nobody will die from lack of TV. They just want you to think so.
>
> Cops want cellphones out of 800. Some will go to 700 (ch 52 and up) after
> the digital transition is completed. Cops cite interference as the reason,
> so if they have it all to themselves they can complain about themselves.
> Not a good time to be a radio tech.

Your almost there JB..Antennas will have no effect on APCO25 but the micro surface mount technology will stop a tech in his tracks! Cheaper to replace than to repair$$$$$$$$$$$$$$$$$
After a short season the technicians will come up with a newfound technology and return C4FM back to where it is now at NFM and the bandwidth will stop being overwhelmed by strong signals!! Just be patient The FCC has got it in writing and must follow suit else it will appear to be a brainfart!!

The cops dont know where 800 mhz is its not a cell-phone thingy at all!! They would like to converse in private but this will need to be a scrambled code allowed by an individual reciever IDof a DSS design!! I expect Motorola already has the patent and a gob of new radios in transision??

1591. "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 04:19:18 UTC
From: Jason <jasoncaza@gmail.com>
Message-ID: <7f32fbbf-475e-4872-82a4-f125f23932ce@q9g2000yqc.googlegroups.com>
Source record: 17015

Has anyone had any luck with these? the ones from Wireless Garden
I got one, and no matter how i turn it, I get very weak signal. my
target is about 400' away line of sight, except my friends ap is not
right in the window (i can see the window from my window).

I'm using an ALFA AWUS036H 500mW usb adaper with a RP-SMA.
the cantenna claims 12 dBi, and has a 3' cable with RP-SMA
the ap, has just the built in antennas (belkin)

I can get a week signal, but I get just as good or better with my 2
dBi omni!

do to the card being hi power the ap can hear everything but the ALPA
Rx SNR must be very low.

thanks in advance
-Jason

1592. Re: WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 12:32:07 UTC
From: dave <dave@dave.dave>
Message-ID: <opqdnVb3MZBUnSTUnZ2dnUVZ_g6WnZ2d@earthlink.com>
Source record: 17016

Dave Platt wrote:
> In article <49b82f1f$0$31174$bd467cd0@news.dslextreme.com>,
> dave <dave@dave.dave> wrote:
>
>> The horror...
>>
>> In any case, there is no one enforcing Part 15 compliance in the field.
>
> True... it's rare, and seems to happen only after strenuous
> complaints. I *have* heard of it happening, though.
>
>> If the Wifi card has a standard connector it should be OK with an
>> aftermarket antenna. If it has an oddball connector it must be used
>> with a specific antenna.
>
> That's not the intent of the FCC regulations.
>
> The FCC requires that consumer-type WiFi radios *must* use nonstandard
> connectors (for arguable definitions of "nonstandard"). Specifically,
> 47 CFR 15.203 says:
>
> An intentional radiator shall be designed to ensure that no
> antenna other than that furnished by the responsible party
> shall be used with the device. The use of a permanently
> attached antenna or of an antenna that uses a unique coupling
> to the intentional radiator shall be considered sufficient to
> comply with the provisions of this Section. The manufacturer
> may design the unit so that a broken antenna can be replaced
> by the user, but the use of a standard antenna jack or
> electrical connector is prohibited... (snip)... the installer
> shall be responsible for ensuring that the proper antenna is
> employed so that the limits in this Part are not exceeded.
>
> Manufacturers have asked that the "unique coupling" rule be relaxed...
> they complain that every time they come up with a new "unique"
> connector (e.g. reverse-polarity or reverse-threaded versions of SMA,
> TNC, etc.), it rapidly becomes so popular and so easy to acquire that
> they have to stop using it and find a *different* new non-standard
> connector... lather, rinse, repeat.
>
> The FCC refused to remove this requirement, the last time that the
> issue was the subject of a rulemaking (although they did add the above
> language which permits a broken antenna to be replaced by the user...
> previously even this was essentially forbidden).

>

They should just worry about the input power to the antenna. So what if I take radiation off the floor and ceiling to make it go a little farther sideways? So what if I have a narrow beam in only one direction? It reduces congestion in the directions it's not pointed in.

I can understand the restriction for FM Modulators or IFB transmitters, but for a device that shares a band with microwave ovens I think the FCC better have a hundred higher priorities.

1593. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 12:33:40 UTC
From: dave <dave@dave.dave>
Message-ID: <opqdnVH3MZC4nCTUnZ2dnUVZ_g4LAAAA@earthlink.com>
Source record: 17017
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced

joeturn wrote:

>
> The cops dont know where 800 mhz is its not a cell-phone thingy at
> all!! They would like to converse in private but this will need to be
> a scrambled code allowed by an individual reciever IDof a DSS design!!
> I expect Motorola already has the patent and a gob of new radios in
> transision??

Cops converse in private all the time. They use their cell phones.

1594. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 14:45:46 UTC
From: joeturn <joeturn2000@yahoo.com>
Message-ID: <5f524377-6eae-4dc9-ad6a-b6938e395936@j39g2000yqn.googlegroups.com>
Source record: 17018
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced
Body handling: HTML body converted to readable text

> Cops converse in private all the time. They use their cell phones.

Dear Dave the problem is they have soo much bleed over from AP25 that
it covers 850 to 950 mhz the whole cell band!!

Cell Phones are not private they are worse than a party line!!

Go back to sleep I'll call you when dinner is ready

1595. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 16:14:21 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <2ddb5e13-9fc5-4027-9dbe-5231c49a2081@v39g2000yqm.googlegroups.com>
Source record: 17019

On Mar 12, 12:19 am, Jason <jasonc...@gmail.com> wrote:
> Has anyone had any luck with these? the ones from Wireless Garden
> I got one, and no matter how i turn it, I get very weak signal. my
> target is about 400' away line of sight, except my friends ap is not
> right in the window (i can see the window from my window).
>
> I'm using an ALFA AWUS036H 500mW usb adaper with a RP-SMA.
> the cantenna claims 12 dBi, and has a 3' cable with RP-SMA
> the ap, has just the built in antennas (belkin)
>
> I can get a week signal, but I get just as good or better with my 2
> dBi omni!
>
> do to the card being hi power the ap can hear everything but the ALPA
> Rx SNR must be very low.
>
> thanks in advance
> -Jason

A lot of the new double pane windows have a metalize layer in them
that blocks RF very effectivly. Raising my window and removing the
screen is requiire for me acces my AP from outdoors.

Jimmie

1596. Re: WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 17:32:31 UTC
From: cuhulin@webtv.net
Message-ID: <17450-49B9472F-608@storefull-3171.bay.webtv.net>
Source record: 17021

My Aluratek Internet Clock Radio showed up here about a week and a half ago. www.aluratek.com

The radio requires either a wired or wireless router.Also an ethernet cable if used with a wired router, connected to a computer.I do own a Velocity Micro ProMagix desktop computer.I need to buy a router.I like Linksys products.I think I will buy a Linksys wired router.

I am not interested in doing any WiFi wardriving, driving around for that purpose.I only drive to the food store and the discount tobacco store and to a vetirinary supply store for dog food for my little doggy.

A few days ago, I phoned MFJ Enterprises.The lady said my WiFi antenna is on back order.
cuhulin

1597. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 17:33:56 UTC
From: You <you@shadow.orgs>
Message-ID: <you-5EF386.09363112032009@netnews.worldnet.att.net>
Source record: 17020
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced
Body handling: HTML body converted to readable text

In article
<5f524377-6eae-4dc9-ad6a-b6938e395936@j39g2000yqn.googlegroups.com>,
joeturn wrote:
>
> Cell Phones are not private they are worse than a party line!!
>
> Go back to sleep I'll call you when dinner is ready
> AP25 can be descrambled clearly by simply adding a spotter am carrier
> to the signal!!

Hey Joe, your knowledge of the CellPhone Technology is only a Couple of
YEARS out of date.... Analog Cellphones do NOT Exist anymore and unless
you have the "RIGHT" (Expensive) Equipment your not going to be
listening in on ANY GSM or TDM Cellphones any time soon.....

1598. Shunt capacitor in EZNEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 18:10:54 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Qecul.15563$as4.1532@nlpi069.nbdc.sbc.com>
Source record: 17022

In my G5RV model, I have a short wire containing
the source and transmission line. There seems to
be a way to connect a shunt capacitor across the
transmission line but I have been unable to
accomplish that feat in a valid manner. Anybody
know the trick to doing it in EZNEC+ 4.0? I've
tried using two more short wires to build a
triangle and installing the cap in one of those
wires but the results are not valid.
--
TNX & 73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1599. Re: Shunt capacitor in EZNEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 18:47:29 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <6Ncul.26034$ZP4.12091@nlpi067.nbdc.sbc.com>
Source record: 17023

Cecil Moore wrote:
> I have been unable to
> accomplish that feat in a valid manner.

Sorry, I must have been making a stupid mistake.
I tried again and it is working.
--
73, Cecil http://www.w5dxp.com

1600. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 18:57:48 UTC
From: Tim Shoppa <shoppa@trailing-edge.com>
Message-ID: <e79f33c3-0dff-44e2-9ec9-2d74cd84e071@w9g2000yqa.googlegroups.com>
Source record: 17024

On Mar 12, 12:19 am, Jason <jasonc...@gmail.com> wrote:
> Has anyone had any luck with these? the ones from Wireless Garden
> I got one, and no matter how i turn it, I get very weak signal. my
> target is about 400' away line of sight, except my friends ap is not
> right in the window (i can see the window from my window).
>
> I'm using an ALFA AWUS036H 500mW usb adaper with a RP-SMA.
> the cantenna claims 12 dBi, and has a 3' cable with RP-SMA
> the ap, has just the built in antennas (belkin)
>
> I can get a week signal, but I get just as good or better with my 2
> dBi omni!
>
> do to the card being hi power the ap can hear everything but the ALPA
> Rx SNR must be very low.

I'm sorry, no answer to your question, I just think it's funny,
remembering the Heath Cantenna, that someone expects a Cantenna to
actually radiate a signal.

Back 30 years ago when I was a novice, I remember accidentally leaving
my Cantenna hooked up instead of my real antenna and working a couple
of JA's with it. 15M really was wide-open to Japan every afternoon
back then!

Tim.

1601. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 19:19:12 UTC
From: AndyS <andysharpe@juno.com>
Message-ID: <b7d0d671-25a7-4a8d-99cb-548ebab98c12@j38g2000yqa.googlegroups.com>
Source record: 17025

Owen Duffy wrote:
> Look up the Friis Transmission equation on Google.
>
> Here is a little application for solving the Friis Transmission equation:
> http://www.vk1od.net/software/fsc/ .

Andy asks:

The Friis equation at the above website states that the distance
exponent may be a number different than "2".

Can anyone here explain why a number other than "2" could be
used, and under what conditions ??

Thanks,

Andy W4OAH

1602. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 19:53:57 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <69OdnVxieYrF9STUnZ2dnUVZ_uqdnZ2d@posted.easystreetonline>
Source record: 17026

AndyS wrote:
>
> Andy asks:
>
> The Friis equation at the above website states that the distance
> exponent may be a number different than "2".
>
> Can anyone here explain why a number other than "2" could be
> used, and under what conditions ??
>
> Thanks,
>
> Andy W4OAH

The exponent of 2 assumes no dissipative path loss. That is, the reduction in field strength is due solely to the power being spread out over an area which increases with distance from the source, and not to any reduction in the total power at any distance. A larger exponent would be appropriate when the path is lossy, for example when ground wave attenuation is present. A path through air could also get lossy at microwave frequencies due to water in the air in liquid or gas form, and at extremely high frequencies due to absorption by various atmospheric gases.

Roy Lewallen, W7EL

1603. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 22:39:24 UTC
From: "Jim, K7JEB" <k7jeb_2@yahoo.com>
Message-ID: <26bc5e4d-b19b-4a35-9f89-89c374a56914@e18g2000yqo.googlegroups.com>
Source record: 17027

On Mar 12, 11:57 am, Tim Shoppa <sho...@trailing-edge.com> wrote:

> I'm sorry, no answer to your question, I just think it's funny,
> remembering the Heath Cantenna, that someone expects a Cantenna to
> actually radiate a signal.

I have a Heath Cantenna too, but the WiFi folks mean a different thing
with
that term -- a 2.4 GHz waveguide antenna made from a Pringles (tm)
can.
Unfortunately, that cantenna of the second kind has almost no gain.
It needs
a much larger aperture to make that gain than the 3-inch diameter of a
foil-
covered paper tube. That can be had by attaching a larger, metallic
funnel
to the mouth of the antenna to form the typical microwave horn
antenna.
See any reputable antenna text book for design details.

Jim, K7JEB, Glendale, AZ

1604. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 22:46:48 UTC
From: Albert Manfredi <bert22306@hotmail.com>
Message-ID: <ddc58d14-382d-4a14-9e92-d217f6dc3270@a5g2000pre.googlegroups.com>
Source record: 17028
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced

On Mar 12, 1:33 pm, You <y...@shadow.orgs> wrote:

> Hey Joe, your knowledge of the CellPhone Technology is only a Couple of
> YEARS out of date.... Analog Cellphones do NOT Exist anymore and unless
> you have the "RIGHT" (Expensive) Equipment your not going to be
> listening in on ANY GSM or TDM Cellphones any time soon.....

Agreed on analog.

But AT&T mobile, for example, uses GSM. And GSM, at least through
2.5G, uses TDM as its RF physical layer..

Bert

1605. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-12 23:54:36 UTC
From: Jason <jasoncaza@gmail.com>
Message-ID: <5f3e6841-eec7-443f-a79e-8323233a90e3@41g2000yqf.googlegroups.com>
Source record: 17029

> a much larger aperture to make that gain than the 3-inch diameter of a
> foil-
> covered paper tube. That can be had by attaching a larger, metallic
> funnel

Its odd because the dia. is only 85mm where the homemade ones say
100mm +/- 10mm.
also the 3' wire is very skinny (don't know what one it is). About a
thin as a pencil lead.
and also there's a tripod mount that has a bolt inside that blocks the
lower 7-8mm of the antenna.

as for the windows, tested (on my end), there not making any
difference. Kismet & Netstumbler don't seem to report noise level with
this card, just rx level. but the app that came with the Alfa shows
"Signal Str" and "Link Quality". No differnce betewen a 2 dBi omni and
the cantenna.

1606. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 00:16:51 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <f5cc43f6-38d5-4980-a6b6-7c01858c73ed@j35g2000yqh.googlegroups.com>
Source record: 17030

On Mar 12, 6:39 pm, "Jim, K7JEB" <k7je...@yahoo.com> wrote:
> On Mar 12, 11:57 am, Tim Shoppa <sho...@trailing-edge.com> wrote:
>
> > I'm sorry, no answer to your question, I just think it's funny,
> > remembering the Heath Cantenna, that someone expects a Cantenna to
> > actually radiate a signal.
>
> I have a Heath Cantenna too, but the WiFi folks mean a different thing
> with
> that term -- a 2.4 GHz waveguide antenna made from a Pringles (tm)
> can.
> Unfortunately, that cantenna of the second kind has almost no gain.
> It needs
> a much larger aperture to make that gain than the 3-inch diameter of a
> foil-
> covered paper tube. That can be had by attaching a larger, metallic
> funnel
> to the mouth of the antenna to form the typical microwave horn
> antenna.
> See any reputable antenna text book for design details.
>
> Jim, K7JEB, Glendale, AZ

Just about anything works better than the Pringles(tm) can that made
the antennas famous. I made one with a large fruit juice can and it
worked fairly decent. I picked up about 10 db compared to the stock
antenna.

Jimmie

1607. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 00:36:09 UTC
From: PhattyMo <phattymo@not.net>
Message-ID: <49b9aa6d$0$33225$815e3792@news.qwest.net>
Source record: 17031

>
> Just about anything works better than the Pringles(tm) can that made
> the antennas famous. I made one with a large fruit juice can and it
> worked fairly decent. I picked up about 10 db compared to the stock
> antenna.
>
>
> Jimmie

Ditto,but mine was a clam-chowder can,IIRC. Got funny looks walking down the soup aisle with a tape measure..but I found a can with nearly-perfect diameter. :)

1608. Re: WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 02:07:30 UTC
From: Henry <wa0goz@arrl.net>
Message-ID: <gpcf4t$q6a$1@news.motzarella.org>
Source record: 17032

You wrote in rec.radio.amateur.antenna:
<SNIP>
>I need to buy a router.I like
>Linksys products.I think I will buy a Linksys wired router.

I have a Linksys Model BEFSR41 4 port router that sells for $60
retail that I'll sell to you for $40 plus shipping.

See: http://tinyurl.com/cgkz5b

If you're interested, let me know your zip code so I can estimate the
shipping costs.

Henry WA0GOZ

1609. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 04:57:38 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <8Jlul.33$GI2.17@newsfe25.iad>
Source record: 17033

"PhattyMo" <phattymo@not.net> wrote in message
news:49b9aa6d$0$33225$815e3792@news.qwest.net...
>
> >
> > Just about anything works better than the Pringles(tm) can that made
> > the antennas famous. I made one with a large fruit juice can and it
> > worked fairly decent. I picked up about 10 db compared to the stock
> > antenna.
> >
> >
> > Jimmie
>
> Ditto,but mine was a clam-chowder can,IIRC. Got funny looks walking down
> the soup aisle with a tape measure..but I found a can with
> nearly-perfect diameter. :)

The 2.4 GHz Multipoint Distribution System (MDS) pirate receivers from the 1980's used a coffee can. The circuit board parts kit was sized to fit inside the standard 1-lb coffee can, so you knew (without the tape measure ;-).

I still have one overhead in the garage. It worked much better with a big cone of screenwire out in front. Maybe the experimentors should work in that direction. The cone acted just like a funnel.

Since the MDS signals are/were NTSC television, improvements could be evaluated real-time.

"Sal"

1610. Re: Definition of antenna receive gain?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 06:00:14 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BCDACF8F2DFAnonenowhere@61.9.191.5>
Source record: 17034

AndyS <andysharpe@juno.com> wrote in
news:b7d0d671-25a7-4a8d-99cb-548ebab98c12@j38g2000yqa.googlegroups.com:

>
>
> Owen Duffy wrote:
>> Look up the Friis Transmission equation on Google.
>>
>> Here is a little application for solving the Friis Transmission
>> equation: http://www.vk1od.net/software/fsc/ .
>
>
> Andy asks:
>
> The Friis equation at the above website states that the distance
> exponent may be a number different than "2".

I don't think I say that, Friis uses an exponent of 2, but the calculator
can also solve the equation with an exponent other than 2.
>
> Can anyone here explain why a number other than "2" could be
> used, and under what conditions ??

An example is that the FCC stipulates exponents of other than 2 for some
field strength interpolation / extrapolation, up to 4 IIRC, and this is
for application in real situations at closer distances than radiation far
field conditions.

The use of the exponent is to account for some other effects. In some
cases the value of the exponent has been challenged. If I understand the
case correctly, the ARRL has challenged some instances used for BPL and
the court has required the FCC to scientifically substantiate its
exponent, or use another which it can scientifically substantiate.

The ability to specify the exponent is principally provided for peforming
those interpolation / extrapolations.

Owen

>
> Thanks,
>
> Andy W4OAH

1611. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 16:08:01 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <1b0lr4tarbpl3c9m0p84obtin7lkvqukiv@4ax.com>
Source record: 17035

On Wed, 11 Mar 2009 21:19:18 -0700 (PDT), Jason <jasoncaza@gmail.com>
wrote:

>Has anyone had any luck with these? the ones from Wireless Garden
>I got one, and no matter how i turn it, I get very weak signal. my
>target is about 400' away line of sight, except my friends ap is not
>right in the window (i can see the window from my window).

Any coating on the window? If either window is a Low-E window, you
will have problems passing RF. Similarly, if the wall at your friends
end is full of chicken wire, concrete, or foil backed insulation, RF
is not going to penetrate. Line of sight means the antennas can see
each other with NOTHING in between. Get line of sight and it will
probably work.

>I'm using an ALFA AWUS036H 500mW usb adaper with a RP-SMA.
>the cantenna claims 12 dBi, and has a 3' cable with RP-SMA
>the ap, has just the built in antennas (belkin)

Ummm.... methinks perhaps 9 dBi on a good day. I ran a model sometime
back. No guarantee mine is the same size can as yours:
<http://802.11junk.com/jeffl/antennas/coffee2400/index.html>
Note that the driven element is not a 1/4 wave wire, but is slightly
conical for better bandwidth.

>I can get a week signal, but I get just as good or better with my 2
>dBi omni!

Ummm... there's probably something wrong with the Super Cantenna or
your coax cable and connector arrangement. Start with a continuity
check using an ohms guesser. Also look for shorts. Beyond that,
you'll need a pile of test equipment. If the Super Cantenna uses a
type N connector, you might be able to substitute another external
antenna to test the coax cables and pigtail.

Incidentally, my father once warned me about products with amazing,
magic, miracle, super, and other superlatives in the name. Few come
even close.

>do to the card being hi power the ap can hear everything but the ALPA
>Rx SNR must be very low.

Don't assume the card is the problem, especially if the 2dBi omni
works as expected. I would investigate the antenna first.

>thanks in advance
>-Jason

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1612. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 16:25:51 UTC
From: You <you@shadow.orgs>
Message-ID: <you-59F7DC.08282813032009@netnews.worldnet.att.net>
Source record: 17036
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced

In article
<ddc58d14-382d-4a14-9e92-d217f6dc3270@a5g2000pre.googlegroups.com>,
Albert Manfredi <bert22306@hotmail.com> wrote:

> On Mar 12, 1:33 pm, You <y...@shadow.orgs> wrote:
>
> > Hey Joe, your knowledge of the CellPhone Technology is only a Couple of
> > YEARS out of date.... Analog Cellphones do NOT Exist anymore and unless
> > you have the "RIGHT" (Expensive) Equipment your not going to be
> > listening in on ANY GSM or TDM Cellphones any time soon.....
>
> Agreed on analog.
>
> But AT&T mobile, for example, uses GSM. And GSM, at least through
> 2.5G, uses TDM as its RF physical layer..
>
> Bert

So, The OP still isn't going to be listening in on any conversations....
UNLESS, he has some fairly sophisticated, and EXPENSIVE receivers, more
on the NSA's capability.

1613. Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 19:22:24 UTC
From: k8jrm@cox.net
Message-ID: <Qnyul.105282$EO2.56876@newsfe04.iad>
Source record: 17037

Hi Guys,

This is an age old question - what is the best way to get 450 Ohm ladder line into my shack antenna tuning unit (ATU)? Here is my situation; I have two 4" PVC tubes inserted into the exterior wall that allow the entrance of coaxial cable into my shack. When I run the ladder line into the shack through one of these ports, the multi-band wire antenna fed with the ladder line goes wild! I can not get the antenna to tune with any of my ATUs.

I have received several suggestions on how I can overcome this problem. The most promising one seems to be to use two short pieces of coax with center conductor connected to either side of the ladder line. These pieces of coax, in turn, would be fed through the PVC hole into the shack and the center conductors connected to the ATU. The shield on the coax would float with no connection to any thing. This solution sounds good; however, common sense tells me that ladder feed line will still suffer because of its proximity to other objects. Any thoughts on this solution?

Another possibility is using a piece of Plexiglas place under a metal framed window pretty much as shown in the old hand books. My problem with this solution is that the window is on the other side of the room from operating table, the two coax entry ports and AC power.

Short of placing the tuner outside in the elements, is there a solution to my problem? I would be interested in hear what has been tried!

Tom, K8JRM in OKC

1614. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 20:11:24 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <d4BntIMs3ruJFw+4@g3ohx.demon.co.uk>
Source record: 17038

In message <Qnyul.105282$EO2.56876@newsfe04.iad>, K8JRM <k8jrm@cox.net>
writes
>Hi Guys,
>
>
>This is an age old question - what is the best way to get 450 Ohm ladder line
>into my shack antenna tuning unit (ATU)? Here is my situation; I have two 4"
>PVC tubes inserted into the exterior wall that allow the entrance of coaxial
>cable into my shack. When I run the ladder line into the shack through one of
>these ports, the multi-band wire antenna fed with the ladder line goes
>wild! I
>can not get the antenna to tune with any of my ATUs.
>
>
>I have received several suggestions on how I can overcome this problem. The
>most promising one seems to be to use two short pieces of coax with center
>conductor connected to either side of the ladder line. These pieces of
>coax, in
>turn, would be fed through the PVC hole into the shack and the center
>conductors connected to the ATU. The shield on the coax would float with no
>connection to any thing. This solution sounds good; however, common sense
>tells me that ladder feed line will still suffer because of its proximity to
>other objects. Any thoughts on this solution?
>
>
>Another possibility is using a piece of Plexiglas place under a metal framed
>window pretty much as shown in the old hand books. My problem with this
>solution is that the window is on the other side of the room from operating
>table, the two coax entry ports and AC power.
>
>
>Short of placing the tuner outside in the elements, is there a solution to my
>problem? I would be interested in hear what has been tried!
>
Presumably, your ATU has a balanced output for the 450 ohm feeder.

If you already have the two (presumably fairly short) pieces of coax
lines already in place, I reckon that the first thing you should try is
to ground the two shields to the case of the ATU (which I presume is
your shack safety ground, and maybe also your RF ground). This should
screen the inner conductors from other nearby conductors, and keep the
feed balanced. If you don't ground the shields, you might as well not
use coax.

Obviously, using coax will change the impedance of the line for a short distance, and may affect the settings of the ATU (more on the higher HF bands, of course). But with luck, the ATU will still tune OK. The increase in feeder losses should be negligible.

An alternative is to go from the ATU and through the wall using low impedance twin feeder. The spacing between the conductors will be much smaller than the for the 450 ohm feeder, and it should not have much opportunity to become very unbalanced due to the proximity of nearby conductors. It might be advantageous to twist it. I understand that, if the insulating material is suitable, twin mains power cable can be used as twin feeder, especially on the lower HF bands. The current rating of the cable will, of course, depend on what power you intend to run. Ordinary lighting twin flex should handle a couple of hundred watts. But, if you've got a bit of 50 or 75 ohm twin, all the better.
--
Ian

1615. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 21:25:04 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BCE55A18C823nonenowhere@61.9.191.5>
Source record: 17039

Tom,

Many configurations of the type you describe are widely misunderstood.

To help you to analyse the configuration, keep in mind that for a coaxial cable in TEM mode, the current flowing on the outside surface of the inner conductor is accompanied by an equal magnitude but opposite phase current flowing on the inside surface of the outer conductor.

Consider a break in the sheild as a circuit node with at least two connections, the inside surface of the outer conductor and the outside surface of the outer conductor.

The configuration you describe will make essentially no difference to the common mode current, the feedline is not effectively shielded by the outer conductors.

Owen

1616. Re: WiFi Antenna.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 23:00:47 UTC
From: joeturn <joeturn2000@yahoo.com>
Message-ID: <763ab894-d7c5-424e-b7f6-bd7edb81f78d@l16g2000yqo.googlegroups.com>
Source record: 17040

http://www.engadget.com/2005/11/15/how-to-build-a-wifi-biquad-dish-antenna/

1617. Re: "Super Cantenna"

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 23:01:36 UTC
From: joeturn <joeturn2000@yahoo.com>
Message-ID: <801028b5-33e2-4ad2-b423-879020c1dcca@a12g2000yqm.googlegroups.com>
Source record: 17041

http://www.engadget.com/2005/11/15/how-to-build-a-wifi-biquad-dish-antenna/

1618. Re: The digital rip-off: your help needed

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-13 23:13:48 UTC
From: joeturn <joeturn2000@yahoo.com>
Message-ID: <2b45e325-88e1-48d3-95ae-3f73491c7d03@z1g2000yqn.googlegroups.com>
Source record: 17042
Cross-posted to:
rec.radio.amateur.antenna,rec.video.cable-tv,rec.video.satellite.misc,rec.video.satellite.tvro,sci.engr.television.advanced
Body handling: HTML body converted to readable text

Do you guys remember the hayday of double side band?? Now compare it
to C4FM/digital

The old split systemTX/RX radio gear had a vfo and a spotter to
pinpoint the intended frequency!!

The TX spotter created a sample am carrier that allowed a null in
sound to sycronize the two TX/RX

Well this small am carrier gives C4FM the same ability to be
descrambled as it did SSB it provides the path through the
discriminator or does it not??

1619. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 03:13:33 UTC
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Message-ID: <d0ec156d-b576-417f-a143-784c9efaed2c@r36g2000prf.googlegroups.com>
Source record: 17043

On Mar 13, 12:22 pm, k8...@cox.net (K8JRM) wrote:
> Hi Guys,
>
> This is an age old question - what is the best way to get 450 Ohm ladder line
> into my shack antenna tuning unit (ATU)? Here is my situation; I have two 4"
> PVC tubes inserted into the exterior wall that allow the entrance of coaxial
> cable into my shack. When I run the ladder line into the shack through one of
> these ports, the multi-band wire antenna fed with the ladder line goes wild! I
> can not get the antenna to tune with any of my ATUs.
>
> I have received several suggestions on how I can overcome this problem. The
> most promising one seems to be to use two short pieces of coax with center
> conductor connected to either side of the ladder line. These pieces of coax, in
> turn, would be fed through the PVC hole into the shack and the center
> conductors connected to the ATU. The shield on the coax would float with no
> connection to any thing. This solution sounds good; however, common sense
> tells me that ladder feed line will still suffer because of its proximity to
> other objects. Any thoughts on this solution?
>
> Another possibility is using a piece of Plexiglas place under a metal framed
> window pretty much as shown in the old hand books. My problem with this
> solution is that the window is on the other side of the room from operating
> table, the two coax entry ports and AC power.
>
> Short of placing the tuner outside in the elements, is there a solution to my
> problem? I would be interested in hear what has been tried!
>
> Tom, K8JRM in OKC

Tom, you confuse me. Is the ladder line in the PVC tube all by itself?
Or are there other conductors in the tube with the ladder line? If all
by itself, then there has to be some metal conductor around the PVC.

If the ladder line has to be in a PVC pipe with other wire, Stuff the
PVC pipe full of rags or crumpled newspaper to fill the PVC and raise
the ladder line as far away from the other conductors as possible. See
if that helps.

Another possibility is to put two 1/2 inch pvc pipes inside your 4
inch pipe, split the ladder line down the middle and run each wire
through a 1/2 pipe. Some splicing will be necessary, but your antenna
tuner won't care.

My antenna is a 160 meter lazy quad (horizontal) fed at a corner with
225 ft. of 600 ohm feed line. This line comes through the wall of my

mfg home (aluminum siding) and passes through a DPDT switch to 400 ohm ladder line to the antenna tuner. The wall insulators are ancient ceramic units made specifically for feed line through the wall. The tuner takes care of whatever matching is needed. Works great!

Paul, KD7HB in Oregon

1620. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 04:59:08 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <fRGul.9649$0E.6169@newsfe15.iad>
Source record: 17044

"K8JRM" <k8jrm@cox.net> wrote in message
news:Qnyul.105282$EO2.56876@newsfe04.iad...

> This is an age old question - what is the best way to get 450 Ohm ladder
line
> into my shack antenna tuning unit (ATU)? Here is my situation; I have two
4"
> PVC tubes inserted into the exterior wall that allow the entrance of
coaxial
> cable into my shack. When I run the ladder line into the shack through
one of
> these ports, the multi-band wire antenna fed with the ladder line goes
wild! I
> can not get the antenna to tune with any of my ATUs.

What about enlarging the hole and covering it with a piece of plexiglas with two bolts through it, spaced the same distance apart as the gauge of the ladder line. Connect sections of ladder line to both ends of the bolts -- under the bolt heads on one side and under the nuts on the other.

MFJ makes something along these lines. Please see:
http://mfjenterprises.com/Product.php?productid=MFJ-4602

Finally, have you tried tubes of material other than PVC? I ran some 300-ohm TV twinlead through an empty Sue Bee honey squeezer tube and the pictures were fine. (This was before I owned a signal meter, so I don't know if it had any bad effect.)

"Sal"

1621. digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 14:59:22 UTC
From: Dave <Dave@mediacom.net>
Message-ID: <pDPul.21151$c45.10997@nlpi065.nbdc.sbc.com>
Source record: 17045

Do any of you know if there is an available box that can be used on portable TV's? I have a nice 110/12 volt set with a rabbit style antenna that I hate to have to junk. It a shame that all the portables will have to be junked. I also have a pocket Casio TV that is now worthless. Thank you all for your comments.
73's

1622. Re: digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 15:38:42 UTC
From: Wayne <mygarbagecan@verizon.net>
Message-ID: <gpgj24iau1@news.motzarella.org>
Source record: 17046

"Dave" <Dave@mediacom.net> wrote in message
news:pDPul.21151$c45.10997@nlpi065.nbdc.sbc.com...
> Do any of you know if there is an available box that can be used on
> portable TV's? I have a nice 110/12 volt set with a rabbit style antenna
> that I hate to have to junk. It a shame that all the portables will have
> to be junked. I also have a pocket Casio TV that is now worthless. Thank
> you all for your comments.
> 73's
The short answer is that you are screwed. The converters certainly work
with the small portables, but the portability suffers. Just find some place
in the house cable distribution system to use them. (Need a tv in the
bathroom?)

1623. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 15:56:52 UTC
From: Ron Walters <w4lde@numail.org>
Message-ID: <49bbd266$0$10042$4c5efa9e@news.corp.moreusenet.net>
Source record: 17047

K8JRM wrote:
> Hi Guys,
>
>
> This is an age old question - what is the best way to get 450 Ohm ladder line
> into my shack antenna tuning unit (ATU)? Here is my situation; I have two 4"
> PVC tubes inserted into the exterior wall that allow the entrance of coaxial
> cable into my shack. When I run the ladder line into the shack through one of
> these ports, the multi-band wire antenna fed with the ladder line goes wild! I
> can not get the antenna to tune with any of my ATUs.
>
>
> I have received several suggestions on how I can overcome this problem. The
> most promising one seems to be to use two short pieces of coax with center
> conductor connected to either side of the ladder line. These pieces of coax, in
> turn, would be fed through the PVC hole into the shack and the center
> conductors connected to the ATU. The shield on the coax would float with no
> connection to any thing. This solution sounds good; however, common sense
> tells me that ladder feed line will still suffer because of its proximity to
> other objects. Any thoughts on this solution?
>
>
> Another possibility is using a piece of Plexiglas place under a metal framed
> window pretty much as shown in the old hand books. My problem with this
> solution is that the window is on the other side of the room from operating
> table, the two coax entry ports and AC power.
>
>
> Short of placing the tuner outside in the elements, is there a solution to my
> problem? I would be interested in hear what has been tried!
>
>
> Tom, K8JRM in OKC
>

Tom,

Sounds like your running the ladder line with some other conductors in
the PVC.

You never said how far the entry point was to the ATU, if its relatively
short less than 15' or so I would recommend you run a piece of coax from
the ATU through the PVC to a 1:1 balum located outside. there would be
some loss in the coax/balum but it would be low on 160-30M and some what
higher on 20-10 meters. I don not think you can quantify the amount of

loss but I don't think you will see it via RST reports. I have successfully used this method over several years since I did not have the 4" PVC that you luckily have for the coax and other conductors.

The above suggestion is made on the assumption that the ATU has a unbalanced output for coax and is not a balanced only tuner.

With respect to the addition of two (2) pieces of coax as a feed through on the inside of the home the shields are connected together and then joined to the ground system in the shack. From the feed through point then you can continue with the ladder line to the ATU.

I recommend the remote balum since it helps cut down on any coupling of RF to other conductors in the PVC. Use a good current type balum since the swr is likely to vary over the multiple band use. The length of ladder line from the balum to the feed point of the antenna is some what critical and there is lots of articles on the subject on the WEB, I believe DX Engineering has some excellent white papers on this subject for remote balums.

73 de
Ron W4LDE

1624. Re: digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 16:00:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <ad0t86-762.ln1@mail.specsol.com>
Source record: 17048

Wayne <mygarbagecan@verizon.net> wrote:
>
> "Dave" <Dave@mediacom.net> wrote in message
> news:pDPul.21151$c45.10997@nlpi065.nbdc.sbc.com...
>> Do any of you know if there is an available box that can be used on
>> portable TV's? I have a nice 110/12 volt set with a rabbit style antenna
>> that I hate to have to junk. It a shame that all the portables will have
>> to be junked. I also have a pocket Casio TV that is now worthless. Thank
>> you all for your comments.
>> 73's
> The short answer is that you are screwed. The converters certainly work
> with the small portables, but the portability suffers. Just find some place
> in the house cable distribution system to use them. (Need a tv in the
> bathroom?)

Or if you REALLY want to be portable, open up a converter box, find the
power supply output, and mod it for external DC power.

As people start replacing their old TV's there's going to lots of
converter boxes for little to nothing.

--
Jim Pennino

Remove .spam.sux to reply.

1625. Re: digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 16:16:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <sLQul.9730$jZ1.1742@flpi144.ffdc.sbc.com>
Source record: 17049

Dave wrote:
> Do any of you know if there is an available box that can be used on
> portable TV's?

I have a portable 12V TV and am using an Insignia converter
box with it. The Insignia converter box works with a cheap
12V inverter and consumes only 7 watts.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1626. Re: digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 17:31:40 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <8SRul.48274$9j5.11103@en-nntp-01.dc1.easynews.com>
Source record: 17050

Dave wrote:
> Do any of you know if there is an available box that can be used on
> portable TV's? I have a nice 110/12 volt set with a rabbit style antenna
> that I hate to have to junk. It a shame that all the portables will have
> to be junked. I also have a pocket Casio TV that is now worthless. Thank
> you all for your comments.
> 73's

See Wineguard Direct:

http://www.winegarddirect.com/viewitem~d~winegard-rc1010-digital-hd-receiver-(rc1010)~p~rc-1010.htm

They have battery operated portable units & 110 VAC units w/12 volt
inverter available.

Also antenna upgrades that yield a stronger signal.

$$

Marv

1627. Re: digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 20:38:49 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <MyUul.15979$b9.266@bignews6.bellsouth.net>
Source record: 16951

"Dave" <Dave@mediacom.net> wrote in message
news:pDPul.21151$c45.10997@nlpi065.nbdc.sbc.com...
> Do any of you know if there is an available box that can be used on
> portable TV's? I have a nice 110/12 volt set with a rabbit style antenna
> that I hate to have to junk. It a shame that all the portables will have
> to be junked. I also have a pocket Casio TV that is now worthless. Thank
> you all for your comments.
> 73's
Use an inverter to convert the 12vdc into 120AC:
http://www.google.com/products/catalog?hl=en&q=inverter&cid=13834616507435357554&sa=title#ps-sellers

I keep one in the car .

1628. colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 21:33:15 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BCF5704E3FC2nonenowhere@61.9.191.5>
Source record: 16953

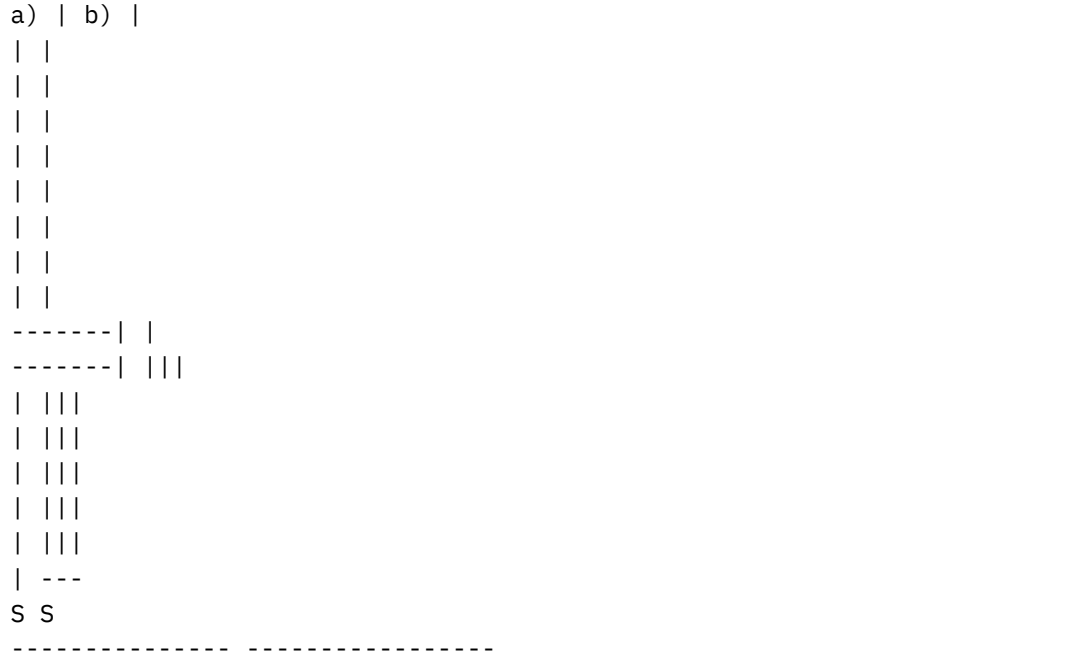

Fig a) above is an attempt to portray a colinear vertical over infinite ground with a source at "S". The configuration is easy enough to model in NEC with sensible results.

The common explanation for operation of a) is that the U shaped section is a quarter wave s/c stub, that it is responsible for delivering direct in-phase drive to the upper section, and that it plays no part itself in radiation ie, that the common mode current on the pair of conductors is zero at all points. Notwithstanding the conventional wisdom, it seems unlikely that there is no common mode current on that section, and NEC models suggest that there is, and that it accounts for some small asymmetric distortion of the pattern.

Fig b) above is an attempt to represent a coaxial arrangement of tubes where the lower end of the tubes are connected together, and that is fed at S against an infinite ground.

My questions are:

1. To what extent is b) equivalent to a)?

2. How is b) modelled in NEC?

Thanks
Owen

1629. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 22:20:14 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <c6bor49k022r1uds1u9hfmqtas6icrtqo2@4ax.com>
Source record: 16952

On Fri, 13 Mar 2009 19:22:24 GMT, k8jrm@cox.net (K8JRM) wrote:

>I can not get the antenna to tune with any of my ATUs.

Hi Tom,

You have an unbalanced load whose common mode current is heavily
influenced by the proximity of conductors in this case. Previous to
this, the load was still unbalanced, but you didn't notice it as much.

Solve the balance and keep the line away from nearby conductors.

73's
Richard Clark, KB7QHC

1630. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-14 23:39:25 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <rbfor4ljs3psu1ht19bfa29q8gt0ra476k@4ax.com>
Source record: 16954

On Fri, 13 Mar 2009 19:22:24 GMT, k8jrm@cox.net (K8JRM) wrote:

>Hi Guys,
>
>
>This is an age old question - what is the best way to get 450 Ohm ladder line
>into my shack antenna tuning unit (ATU)? Here is my situation; I have two 4"
>PVC tubes inserted into the exterior wall that allow the entrance of coaxial
>cable into my shack. When I run the ladder line into the shack through one of
>these ports, the multi-band wire antenna fed with the ladder line goes wild! I
>can not get the antenna to tune with any of my ATUs.

I use the MFJ feedthrough board # 4602. It has two ceramic feedthrough
insulators for balanced line, with other feedthroughs spread across
the board for coax lines, a random wire and a ground wire. MFJ now
makes a whole line of these boards, and they come complete with
weather stripping and burgler bar. No problem tuning the balanced
450-ohm line, coming in to the balanced posts on an MFJ tuner.

The whole setup also makes it very easy to disconnect antennas from
the outside when it gets stormy.

bob
k5qwg

>
>
>I have received several suggestions on how I can overcome this problem. The
>most promising one seems to be to use two short pieces of coax with center
>conductor connected to either side of the ladder line. These pieces of coax, in
>turn, would be fed through the PVC hole into the shack and the center
>conductors connected to the ATU. The shield on the coax would float with no
>connection to any thing. This solution sounds good; however, common sense
>tells me that ladder feed line will still suffer because of its proximity to
>other objects. Any thoughts on this solution?
>
>
>Another possibility is using a piece of Plexiglas place under a metal framed
>window pretty much as shown in the old hand books. My problem with this
>solution is that the window is on the other side of the room from operating
>table, the two coax entry ports and AC power.
>
>
>Short of placing the tuner outside in the elements, is there a solution to my
>problem? I would be interested in hear what has been tried!
>

>
>Tom, K8JRM in OKC

1631. Re: digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 00:34:51 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <78bc5ced-fd8e-4448-9cbc-7110f12f8664@c11g2000yqj.googlegroups.com>
Source record: 16955

On Mar 14, 4:07 pm, Bart Bailey <m...@privacy.net> wrote:
> In Message-ID:<ad0t86-762....@mail.specsol.com> posted on Sat, 14 Mar
> 2009 16:00:00 GMT, j...@specsol.spam.sux.com wrote: Begin
>
>
>
> >As people start replacing their old TV's there's going to lots of
> >converter boxes for little to nothing.
>
> My original plan last year was to wait it out until those boxes began to
> flood the thrift shops, but I was able to avoid the bleak interval and
> upgrade to a unit whose technology will hopefully outlive me.

Get rid of the peep hole in the entrance way and replace it with a
micro camera.
Put the hand held inside the house and use it as a monitor

1632. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 01:05:18 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <zYedndKerNTQySHUnZ2dnUVZ8h6WnZ2d@westnet.com.au>
Source record: 16956

"K8JRM" <k8jrm@cox.net> wrote in message
news:Qnyul.105282$EO2.56876@newsfe04.iad...
> Hi Guys,
>
>
> This is an age old question - what is the best way to get 450 Ohm ladder
> line
> into my shack antenna tuning unit (ATU)? Here is my situation; I have two
> 4"
> PVC tubes inserted into the exterior wall that allow the entrance of
> coaxial
> cable into my shack. When I run the ladder line into the shack through
> one of
> these ports, the multi-band wire antenna fed with the ladder line goes
> wild! I
> can not get the antenna to tune with any of my ATUs.
>
>
> I have received several suggestions on how I can overcome this problem.
> The
> most promising one seems to be to use two short pieces of coax with center
> conductor connected to either side of the ladder line. These pieces of
> coax, in
> turn, would be fed through the PVC hole into the shack and the center
> conductors connected to the ATU. The shield on the coax would float with
> no
> connection to any thing. This solution sounds good; however, common sense
> tells me that ladder feed line will still suffer because of its proximity
> to
> other objects. Any thoughts on this solution?
>
>
> Another possibility is using a piece of Plexiglas place under a metal
> framed
> window pretty much as shown in the old hand books. My problem with this
> solution is that the window is on the other side of the room from
> operating
> table, the two coax entry ports and AC power.
>
>
> Short of placing the tuner outside in the elements, is there a solution to
> my
> problem? I would be interested in hear what has been tried!
>

>
> Tom, K8JRM in OKC
>
Howdy Tom

The two short pieces of coax with center conductor connected to either side of the ladder line is perhaps the best solution. It was covered in QST/The Doctor is In, June 2008. In the article it suggests using the best quality coax on hand, keeping the run to the absolute minimum and the coax shields should be tired at both ends and connected to the station RF earth. This configuration introduces a small section 100ohm nominal impedance transmission line into the antenna system which should have minimal losses, but most important is that it is still part of the balance transmission line. The losses for say RG213 at 4mtr would be almost nothing on 80mtr and perhaps up to 2db on 10mtr.
Obviously the lengths of coax need to be exactly the same length.

If you would like a copy of the article drop me email.

Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

1633. Re: digital converter box

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 02:50:28 UTC
From: Steve Stone <spfleck@citlink.net>
Message-ID: <gphqdsjkh1@news.motzarella.org>
Source record: 16957

Dave wrote:
> Do any of you know if there is an available box that can be used on
> portable TV's?

Winegard Introduces Battery-Powerer DTV Converter Box
Battery pack would allow DTV-to-analog converters to work in power-outages
By John Eggerton -- Broadcasting & Cable, 8/28/2008 4:44:00 AM MT

Equipment manufacturer Winegard is unveiling a battery pack for its
DTV-to-analog converter box at a DTV expo in Wilmington, N.C. today
(Aug. 28).

http://reviews.cnet.com/tv-hdtv-tuners-receivers/winegard-rcdt09a/4505-6487_7-33280760.html

Winegard 9-Volt Battery Pack For RCDT09/RCDT09A Converter Boxes (RC-BP9V)

http://www.winegarddirect.com/viewitem~d~winegard-12volt-power-adapter-for-rcdt09-and-rcdt09a-converter-boxes-(rc12dc)~p~wd-rc-12dc.htm

http://www.winegarddirect.com/viewitem~d~winegard-9volt-battery-pack-for-rcdt09rcdt09a-converter-boxes-(rcbp9v)~p~wd-rc-bp9v.htm

1634. Wire Model of F150 PU

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 03:45:51 UTC
From: w7ji@wildblue.net
Message-ID: <e069be71-9ab5-45dc-8d92-ffbf9736d1ac@t3g2000yqa.googlegroups.com>
Source record: 16958

Does anyone have a wire model of a F150 Ford Pick Up. I would like to model some mobile antennas but do not have a wire model. Any help would be greatly appreciated. Please email me at: w7ji@wildblue.net. Thank you.

73,
Lou, W7JI

1635. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 08:32:56 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <h7mdnax9a96mICHUnZ2dnUVZ_tLinZ2d@posted.easystreetonline>
Source record: 16959

Owen Duffy wrote:

```
> a) | b) |
> | |
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> | |||
> | |||
> | |||
> | |||
> | |||
> | ---
> S S
> --------------- -----------------
```

> Fig a) above is an attempt to portray a colinear vertical over infinite
> ground with a source at "S". The configuration is easy enough to model in
> NEC with sensible results.
>
> The common explanation for operation of a) is that the U shaped section
> is a quarter wave s/c stub, that it is responsible for delivering direct
> in-phase drive to the upper section, and that it plays no part itself in
> radiation ie, that the common mode current on the pair of conductors is
> zero at all points. Notwithstanding the conventional wisdom, it seems
> unlikely that there is no common mode current on that section, and NEC
> models suggest that there is, and that it accounts for some small
> asymmetric distortion of the pattern.
>
> Fig b) above is an attempt to represent a coaxial arrangement of tubes
> where the lower end of the tubes are connected together, and that is fed
> at S against an infinite ground.
>
> My questions are:
>
> 1. To what extent is b) equivalent to a)?

I can't answer that question right off, except that at first glance they look quite similar in operation. I'd build both models with EZNEC, then

take a look at the reported currents in the View Antenna display. You can get the same information from tabular NEC results, but most people find the graphical display quicker and easier to interpret.

You can see the significance of the seemingly small common mode current on the a) model stub by replacing it with a transmission line model stub which of course has zero common mode current. The results are quite different than for the wire model stub.

> 2. How is b) modelled in NEC?

A coaxial line can be modeled as a combination of a transmission line (for the inside of the coax) and a wire (for the outside of the coax). Download the EZNEC demo program and look in the manual index under Coaxial Cable, Modeling. It'll direct you to one of the furnished example files which illustrates how. Then you can do the same thing with NEC if you're so inclined.

Roy Lewallen, W7EL

1636. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 14:14:57 UTC
From: "pdrahn@coinet.com" <co_farmer@yahoo.com>
Message-ID: <7dfa05c5-dc4a-4962-adc5-39f4dc9544a0@v1g2000prd.googlegroups.com>
Source record: 16960

On Mar 14, 6:05 pm, "Peter" <colleenpe...@westnet.com.au> wrote:
> "K8JRM" <k8...@cox.net> wrote in message
>
> news:Qnyul.105282$EO2.56876@newsfe04.iad...
>
> > Hi Guys,
>
> > This is an age old question - what is the best way to get 450 Ohm ladder
> > line
> > into my shack antenna tuning unit (ATU)? Here is my situation; I have two
> > 4"
> > PVC tubes inserted into the exterior wall that allow the entrance of
> > coaxial
> > cable into my shack. When I run the ladder line into the shack through
> > one of
> > these ports, the multi-band wire antenna fed with the ladder line goes
> > wild! I
> > can not get the antenna to tune with any of my ATUs.
>
> > I have received several suggestions on how I can overcome this problem.
> > The
> > most promising one seems to be to use two short pieces of coax with center
> > conductor connected to either side of the ladder line. These pieces of
> > coax, in
> > turn, would be fed through the PVC hole into the shack and the center
> > conductors connected to the ATU. The shield on the coax would float with
> > no
> > connection to any thing. This solution sounds good; however, common sense
> > tells me that ladder feed line will still suffer because of its proximity
> > to
> > other objects. Any thoughts on this solution?
>
> > Another possibility is using a piece of Plexiglas place under a metal
> > framed
> > window pretty much as shown in the old hand books. My problem with this
> > solution is that the window is on the other side of the room from
> > operating
> > table, the two coax entry ports and AC power.
>
> > Short of placing the tuner outside in the elements, is there a solution to
> > my
> > problem? I would be interested in hear what has been tried!
>
> > Tom, K8JRM in OKC

>
> Howdy Tom
>
> The two short pieces of coax with center conductor connected to either side
> of the ladder line is perhaps the best solution. It was covered in QST/The
> Doctor is In, June 2008. In the article it suggests using the best quality
> coax on hand, keeping the run to the absolute minimum and the coax shields
> should be tired at both ends and connected to the station RF earth. This
> configuration introduces a small section 100ohm nominal impedance
> transmission line into the antenna system which should have minimal losses,
> but most important is that it is still part of the balance transmission
> line. The losses for say RG213 at 4mtr would be almost nothing on 80mtr and
> perhaps up to 2db on 10mtr.
> Obviously the lengths of coax need to be exactly the same length.
>
> If you would like a copy of the article drop me email.
>
> Peter VK6YSF
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

Hi, Peter.
I read the QST article and thought it was crazy and so I tried
replacing the 5 ft length of ladder line from my antenna tuner up the
wall to the two feed through insulators going through the wall to the
600 ohm feed line outside.

With the 5 ft ladder line I could tune the antenna, a 160 meter lazy
quad loop, to all bands through 15 meters. With the 5 ft section of
double coax, just like the doctor said, the antenna would not tune for
20 meters or any higher band. I put the old ladder line section back.

Remember what all the discussions say about keeping the feed line away
from metal objects? Here we are introducing a 5 ft length of metal
just 1/4 inch from the feed line. The extra capacitance just kills the
feed line. Yes, I was using RG-213.

So, the doctor in nuts, as far as I can tell.

Paul, KD7HB

1637. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 14:47:26 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <v4-dnQ2GVvGeiCDUnZ2dnUVZ8huWnZ2d@westnet.com.au>
Source record: 16961

>
> Howdy Tom
>
> The two short pieces of coax with center conductor connected to either
> side
> of the ladder line is perhaps the best solution. It was covered in QST/The
> Doctor is In, June 2008. In the article it suggests using the best quality
> coax on hand, keeping the run to the absolute minimum and the coax shields
> should be tired at both ends and connected to the station RF earth. This
> configuration introduces a small section 100ohm nominal impedance
> transmission line into the antenna system which should have minimal
> losses,
> but most important is that it is still part of the balance transmission
> line. The losses for say RG213 at 4mtr would be almost nothing on 80mtr
> and
> perhaps up to 2db on 10mtr.
> Obviously the lengths of coax need to be exactly the same length.
>
> If you would like a copy of the article drop me email.
>
> Peter VK6YSF
>
> http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

Hi, Peter.
I read the QST article and thought it was crazy and so I tried
replacing the 5 ft length of ladder line from my antenna tuner up the
wall to the two feed through insulators going through the wall to the
600 ohm feed line outside.

With the 5 ft ladder line I could tune the antenna, a 160 meter lazy
quad loop, to all bands through 15 meters. With the 5 ft section of
double coax, just like the doctor said, the antenna would not tune for
20 meters or any higher band. I put the old ladder line section back.

Remember what all the discussions say about keeping the feed line away
from metal objects? Here we are introducing a 5 ft length of metal
just 1/4 inch from the feed line. The extra capacitance just kills the
feed line. Yes, I was using RG-213.

So, the doctor in nuts, as far as I can tell.

Paul, KD7HB

Paul

That's interesting and noted as I was intending to use that approach to get the balanced line into my new shack, which is a metal shed. I guess it may be back the old drawing board. Any suggestions?

Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

1638. WTB: Cushcraft XM240

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 17:13:40 UTC
From: N3BJ <N3BJ@cox.net>
Message-ID: <e9387e5c-2ac1-4d12-9ae6-1d1b1a609970@v15g2000yqn.googlegroups.com>
Source record: 16962

Anyone have one that is surplus ? Will be attending Raleigh, Dayton and other hamfests in the PA/MD/VA/NC areas and can travel a bit if pick up is required.

1639. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 18:23:34 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <n2hqr4lau204b4h762bcqblcn33kkjoeb4@4ax.com>
Source record: 16963

On Sat, 14 Mar 2009 21:33:15 GMT, Owen Duffy <none@no.where> wrote:

>My questions are:
>
>1. To what extent is b) equivalent to a)?

Hi Owen,

To no extent as far as I can tell without modeling. I don't think the phases are going to equivalent.

>2. How is b) modelled in NEC?

This takes some presuming of your intent, and my presumption, given the symmetry of the two smaller elements (why two otherwise?), is you are attempting to portray a skeletal sleeve with them. Two is insufficient by my standards, six are barely worth chasing the numbers and I typically use 16. One such example, complete with a link to the design can be found at:
http://home.comcast.net/~kb7qhc/antennas/verticals/Cage/cage.htm

It deviates only by a small degree, but could prove a useful boost in adding the longer element after opening the top end of the thick radiator.

73's
Richard Clark, KB7QHC

1640. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 19:28:07 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD041CDBD26Cnonenowhere@61.9.191.5>
Source record: 16964

Roy Lewallen <w7el@eznec.com> wrote in
news:h7mdnax9a96mICHUnZ2dnUVZ_tLinZ2d@posted.easystreetonline:

Hello Roy,

Thanks for the response.

>
...
>> My questions are:
>>
>> 1. To what extent is b) equivalent to a)?
>
> I can't answer that question right off, except that at first glance
> they look quite similar in operation. I'd build both models with
> EZNEC, then take a look at the reported currents in the View Antenna
> display. You can get the same information from tabular NEC results,
> but most people find the graphical display quicker and easier to
> interpret.

Ok, here is the model I constructed of b) (the coaxial tubes
construction). For simplicity, the upper and lower outer tubes are the
same diameter, the same wire in this model.

```
CM
CE
GW 10 1 0 -2 2 0 -2 2.1 0.005
GW 1 47 0 0 0 0 0 15 0.005
GE 1
GN 1
EK
EX 6 1 1 1 0
TL 10 1 1 16 50 5 1e+99 1e+99 0.0001
FR 0 0 0 0 15 0
EN
```

I have a 3/4 wave vertical over perfect ground, and I have inserted a
quarter wave s/c transmission line into the vertical at 1/3 height. I
have shunted the TL with 10k ohm to represent some loss in the stub.

The currents report shows the currents in the top half wave to be
approximately 180° out of phase with the bottom quarter wave.

The question is whether such a construction yields three quarter waves in
phase, or whether the NEC model is correct that they are not in phase.

>
> You can see the significance of the seemingly small common mode
> current on the a) model stub by replacing it with a transmission line
> model stub which of course has zero common mode current. The results
> are quite different than for the wire model stub.
>

My initial feeling is that the wire model of a) is correct. I have not
yet done as you suggest in the previous par.

>> 2. How is b) modelled in NEC?
>
> A coaxial line can be modeled as a combination of a transmission line
> (for the inside of the coax) and a wire (for the outside of the coax).
> Download the EZNEC demo program and look in the manual index under
> Coaxial Cable, Modeling. It'll direct you to one of the furnished
> example files which illustrates how. Then you can do the same thing
> with NEC if you're so inclined.

Is my model above what you suggest?

Appreciate your comments Roy, thanks.

Owen

1641. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 19:36:58 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD0434D7AA8Cnonenowhere@61.9.191.5>
Source record: 16965

Hello Richard,

Richard Clark <kb7qhc@comcast.net> wrote in
news:n2hqr4lau204b4h762bcqblcn33kkjoeb4@4ax.com:

> On Sat, 14 Mar 2009 21:33:15 GMT, Owen Duffy <none@no.where> wrote:
>
>>My questions are:
>>
>>1. To what extent is b) equivalent to a)?
>
> Hi Owen,
>
> To no extent as far as I can tell without modeling. I don't think the
> phases are going to equivalent.

Ok. Your view is contrary to common explanation... but of course that
doesn't make it wrong.

NEC models of the wire construction at a) show in phase operation, but a
small distortion of the pattern due to common mode current on the stub...
so they support the common explanation in the phase aspect, but not in
respect of the stub causing phase change with no other effects.

The explanation of b) as a) where the stub is relocated coaxially sounds
appealing, but that explanation might be wrong.

>
>>2. How is b) modelled in NEC?
>
> This takes some presuming of your intent, and my presumption, given
> the symmetry of the two smaller elements (why two otherwise?), is you
> are attempting to portray a skeletal sleeve with them. Two is

You seem to have mininterpreted my ASCII art, and that would be easy to
do. I am describing at b), two coaxial tubes, the lowest tube is 1/4
wave, the longer tube is 3/4 wave. The lower tube ends are connected, and
fed between ground and the bottom of the tube assembly.

See the model that I have posted in response to Roy.

Thanks.

Owen

1642. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 20:11:51 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD049379761Fnonenowhere@61.9.191.5>
Source record: 16966

"pdrahn@coinet.com" <co_farmer@yahoo.com> wrote in
news:7dfa05c5-dc4a-4962-adc5-39f4dc9544a0@v1g2000prd.googlegroups.com:
...
> Remember what all the discussions say about keeping the feed line away
> from metal objects? Here we are introducing a 5 ft length of metal
> just 1/4 inch from the feed line. The extra capacitance just kills the
> feed line. Yes, I was using RG-213.

Paul,

The "5 ft length of metal just 1/4 inch from the feed line" is not a good method of analysing the behaviour.

The treatment of the shield ends is very important to the operation of these things.

If the shield ends at each end are tied together, and each end effectively grounded (and that is a big ask), then any common mode current on the incoming ladder line flows to ground via the outboard ground connection, and the section of dual coax transforms the impedance seen looking into the ladder line in a quite predictable way, and with some loss. The transformed impedance might not be within the range of your tuner.

If the outboard shield ends are not effectively grounded, then the configuration does essentially nothing to reduce common mode current entering the shack, so the system is a fails it its primary objective.

Owen

1643. Re: Ladder Line Entry to Shack

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 22:56:37 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD06527217C2nonenowhere@61.9.191.5>
Source record: 16967

"Peter" <colleenpeter@westnet.com.au> wrote in
news:zYedndKerNTQySHUnZ2dnUVZ8h6WnZ2d@westnet.com.au:

...
> The two short pieces of coax with center conductor connected to either
> side of the ladder line is perhaps the best solution. It was covered
> in QST/The Doctor is In, June 2008. In the article it suggests using

Thanks Peter, I have had a quick look at the article.

The "Doctor" describes the configuration in his Figure 4. I have posted a copy of the figure to assist discussion, it is at http://www.vk1od.net/lost/ShieldedTwin.png .

The treatment of the shield ends is important detail in understanding how this works.

If the ground connection on the antenna side of the shielded line has a very low impedance to ground, almost all common mode current on the open wire line will flow to ground via that connection, and very little common mode current will flow into the shack.

For example, lets consider a G5RV at that the transition to shielded twin is at the bottom of the so-called "matching" section. Using a coax pair was comprised 5m of RG213, the impedance looking into the open wire line on 80m would be somewhere around 10-j340.

The transformation and loss in the twin RG213 can be calculated using TLLC (http://www.vk1od.net/calc/tl/tllc.php) with a load of 5-j170 on RG213. The result is 1.9dB of loss in the 5m of cable, 35% of the power into the twin RG213 is lost as heat. The impedance looking into the twin RG213 would be 2-j80, a very challenging load for efficient transformation to 50 ohms.

Now, this is a pretty awful case, and they won't always be this bad, though some will be worse. This shows a method of analysing the configuration.

The "Doctor" says in his article "Whilst it is critical for proper operation for the shields of the two coaxes be tied together at each end, whether they are tied to "ground" is not important for operation, but can make a big improvement in lightning protection."

I disagree with the last statement, the treatment of the ends of the shields wrt ground is very important to analysis, the configuration behaves differently for different ground configurations. For example, if the antenna end of the shields is left disconnected, the common mode

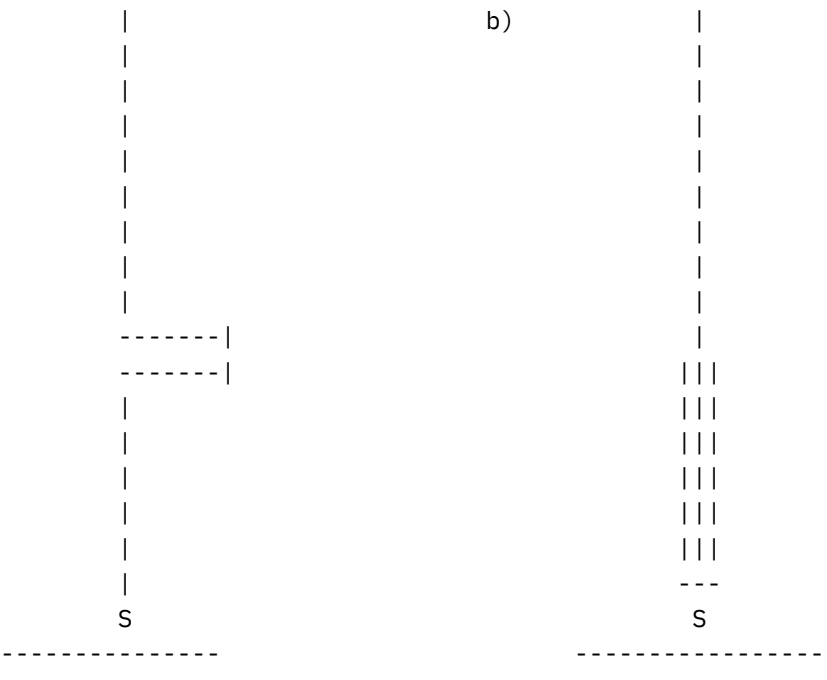
current on each side of the antenna end of the shielded twin is essentially equal and common mode current flows on the outside of the shielded twin. The shielding does not eliminate external fields from common mode current.

Owen

1644. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-15 23:25:21 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <aeea71bd-ad84-41db-b545-5929d8e5cff6@r36g2000prf.googlegroups.com>
Source record: 16968

On Mar 14, 2:33 pm, Owen Duffy <n...@no.where> wrote:



> Fig a) above is an attempt to portray a colinear vertical over infinite
> ground with a source at "S". The configuration is easy enough to model in
> NEC with sensible results.
>
> The common explanation for operation of a) is that the U shaped section
> is a quarter wave s/c stub, that it is responsible for delivering direct
> in-phase drive to the upper section, and that it plays no part itself in
> radiation ie, that the common mode current on the pair of conductors is
> zero at all points. Notwithstanding the conventional wisdom, it seems
> unlikely that there is no common mode current on that section, and NEC
> models suggest that there is, and that it accounts for some small
> asymmetric distortion of the pattern.
>
> Fig b) above is an attempt to represent a coaxial arrangement of tubes
> where the lower end of the tubes are connected together, and that is fed
> at S against an infinite ground.
>
> My questions are:
>
> 1. To what extent is b) equivalent to a)?
>
> 2. How is b) modelled in NEC?
>

> Thanks
> Owen

Hi Owen,

I suppose that R.W.P. King disagrees with the "common explanation." He makes it quite clear that there is interaction of the antenna field with the stub perpendicular to the axis of the antenna wire, and that the coaxial stub does not interact in the same way and the antenna performance is therefore different. (Antennas chapter of Transmission Lines, Antennas and Wave Guides, King, Mimno and Wing.) This is why I like using a feedline to guarantee the phasing. It can be done by driving collinear dipoles with equal lengths of transmission line, or by using an arrangement like the "coaxial collinear," where the radiating elements are outer conductors of coaxial transmission lines used to insure that the multiple feedpoints are at least fed in-phase voltages (and you have to consider that the currents are not exactly in phase).

Cheers,
Tom

1645. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 04:44:37 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD0A0273B42Enonenowhere@61.9.191.5>
Source record: 16969

Hi Tom,

K7ITM <k7itm@msn.com> wrote in
news:aeea71bd-ad84-41db-b545-5929d8e5cff6@r36g2000prf.googlegroups.com:

...
> I suppose that R.W.P. King disagrees with the "common explanation."
> He makes it quite clear that there is interaction of the antenna field
> with the stub perpendicular to the axis of the antenna wire, and that
> the coaxial stub does not interact in the same way and the antenna
> performance is therefore different. (Antennas chapter of Transmission
> Lines, Antennas and Wave Guides, King, Mimno and Wing.) This is why I
> like using a feedline to guarantee the phasing. It can be done by
> driving collinear dipoles with equal lengths of transmission line, or
> by using an arrangement like the "coaxial collinear," where the
> radiating elements are outer conductors of coaxial transmission lines
> used to insure that the multiple feedpoints are at least fed in-phase
> voltages (and you have to consider that the currents are not exactly
> in phase).

That it interesting that Prof King declares that there is more than just
a transmission line action with the external style of stub.

An NEC model of a) works well, showing in phase operation and a nice
pattern. I have played around with two stubs of shorter length on
opposite sides of the vertical and stacked on top of each other, and they
worked fine (ie in phase current distribution with zero near the stubs)
at about 0.15+ wavelenths each... which doesn't fit with a propagation
delay around the conductor path explanation. Interesting!

I am trying to support the common explanation of the coaxial colinear in
my diagram b) using NEC, but I haven't yet been sucessful.

Owen

1646. Re: Wire Model of F150 PU

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 05:34:37 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <tunrr49pshdufajfahhvd0td1nvpiem0om@4ax.com>
Source record: 16970

On Sat, 14 Mar 2009 20:45:51 -0700 (PDT), w7ji@wildblue.net wrote:

>Does anyone have a wire model of a F150 Ford Pick Up. I would like to
>model some mobile antennas but do not have a wire model. Any help
>would be greatly appreciated. Please email me at:
>w7ji@wildblue.net. Thank you.

Sorry, no pickup truck model handy.

You can create your own vehicle models with Win-Synth ($100):
<http://www.nittany-scientific.com/products/nwsynth.htm>
<http://www.antennex.com/preview/Folder04/Jun401/nwsrev.html>
<http://www.k6mhe.com/files/mobile_vhf_ant.pdf>
There are some more vehicle examples at:
<http://www.nittany-scientific.com/examples/examples.htm#STRUCTURES>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

1647. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 06:50:32 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <Ob6dnfl6qLwhayDUnZ2dnUVZ_r6WnZ2d@posted.easystreetonline>
Source record: 16971

Owen Duffy wrote:
>
> Ok, here is the model I constructed of b) (the coaxial tubes
> construction). For simplicity, the upper and lower outer tubes are the
> same diameter, the same wire in this model.
>
> CM
> CE
> GW 10 1 0 -2 2 0 -2 2.1 0.005
> GW 1 47 0 0 0 0 0 15 0.005
> GE 1
> GN 1
> EK
> EX 6 1 1 1 0
> TL 10 1 1 16 50 5 1e+99 1e+99 0.0001
> FR 0 0 0 0 15 0
> EN
>
> . . .

> Is my model above what you suggest?

No. But I did take the time to see what would be necessary to actually model it. And what I ended up with is identical to a) except that the wire stub is replaced by the shorted transmission line model, and the lower wire has become the outside of the coaxial structure so is increased in diameter. So those are the two differences between a) and b). As Tom mentioned and I alluded to, there's some interaction between the wire stub and the antenna which doesn't exist between the ideal transmission line and the antenna, so performance is different.

You might as well leave your source open circuited as to connect it to the shorted end of the transmission line stub. The current into one transmission line conductor always equals the current out of the other, so if the two are shorted, no more current can go into or out of the shorted end. Therefore, any external connection to it looks like an open circuit since no current will flow through the external connection.

What's a type 6 source (EX 6)? The NEC-2 and NEC-4 documentation I have defines only types 1 - 5.

Roy Lewallen, W7EL

1648. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 07:21:25 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <pYGdnZF_ZKVhYCDUnZ2dnUVZ_vninZ2d@posted.easystreetonline>
Source record: 16972

>
> Hi Owen,
>
> I suppose that R.W.P. King disagrees with the "common explanation."
> He makes it quite clear that there is interaction of the antenna field
> with the stub perpendicular to the axis of the antenna wire, and that
> the coaxial stub does not interact in the same way and the antenna
> performance is therefore different. (Antennas chapter of Transmission
> Lines, Antennas and Wave Guides, King, Mimno and Wing.) This is why I
> like using a feedline to guarantee the phasing. It can be done by
> driving collinear dipoles with equal lengths of transmission line, or
> by using an arrangement like the "coaxial collinear," where the
> radiating elements are outer conductors of coaxial transmission lines
> used to insure that the multiple feedpoints are at least fed in-phase
> voltages (and you have to consider that the currents are not exactly
> in phase).
>
> Cheers,
> Tom

In most phased arrays, the objective is to get the fields from the elements to be in some particular ratio. Driving them with currents in that same ratio doesn't always accomplish the desired field ratio, though, when elements have different current distributions as they often do. (See http://eznec.com/Amateur/Articles/Current_Dist.pdf.) The difference between field ratio and feedpoint current ratio is particularly great when base feeding half wave elements. As it turns out, you'll often get better field ratios by feeding with voltages having the desired magnitude ratio and phase difference than feeding with properly ratioed currents, when dealing with end fed half wave elements. The coaxial collinear requires a pretty delicate balance of outer and inner velocity factors as well as the effects of mutual coupling, particularly when there are more than a couple of elements. So I suspect that the current distribution can either help or hinder depending on how the factors are traded off. I wouldn't be surprised, though, if ratioing the voltages rather than currents is actually helpful.

As an illustration, open the EZNEC example file Cardioid.EZ. Change the number of segments to 10 per wire for better accuracy. (It can still be run with the demo program.) Click FF Plot and note the nice cardioid pattern. Then change the Z coordinates of End 2 of the two wires to 0.47 m to make them nearly anti-resonant, and click FF Plot again. The pattern deterioration is due to the elements having different current distributions. Finally, change the source types from I to V. This will force the voltages, rather than currents, at the antenna bases to be in

the desired ratio. Run FF Plot again. You still won't have the nice cardioid back, but it's quite an improvement over the pattern with "correctly" ratioed base currents. The bottom line is that the element currents are more closely related to the base voltages than the base currents, when the elements are near anti-resonance (parallel, or half wave, resonance).

Roy Lewallen, W7EL

1649. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 08:14:24 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD0C3B862A09nonenowhere@61.9.191.5>
Source record: 16973

Roy Lewallen <w7el@eznec.com> wrote in
news:Ob6dnfI6qLwhayDUnZ2dnUVZ_r6WnZ2d@posted.easystreetonline:

> Owen Duffy wrote:
>>
>> Ok, here is the model I constructed of b) (the coaxial tubes
>> construction). For simplicity, the upper and lower outer tubes are
>> the same diameter, the same wire in this model.
>>
>> CM
>> CE
>> GW 10 1 0 -2 2 0 -2 2.1 0.005
>> GW 1 47 0 0 0 0 0 15 0.005
>> GE 1
>> GN 1
>> EK
>> EX 6 1 1 1 0
>> TL 10 1 1 16 50 5 1e+99 1e+99
>> 0.0001 FR 0 0 0 0 15 0
>> EN
>>
>> . . .
>
>> Is my model above what you suggest?
>
> No. But I did take the time to see what would be necessary to actually
> model it. And what I ended up with is identical to a) except that the
> wire stub is replaced by the shorted transmission line model, and the
> lower wire has become the outside of the coaxial structure so is
> increased in diameter. So those are the two differences between a) and
> b). As Tom mentioned and I alluded to, there's some interaction

I think that is what I had done, but I used the same diameter top to
bottom.

Here is a revised deck with different diameters:

```
CM
CE
GW 10 1 0 -2 2 0 -2 2.1 0.005
GW 1 15 0 0 0 0 0 5 0.015
GW 2 30 0 0 5 0 0 15 0.005
GE 1
GN 1
EK
```

```
EX 0 1 1 1 0
TL 10 1 2 1 50 5 1e+99 1e+99 0.0001
FR 0 0 0 0 15 0
EN
```

In the above, the lower conductor is three times the diameter of the upper conductor. The TL is wired into the lowest segment of the upper conductor. Again, I have shunted the TL with 10k R to represent loss in a real TL.

This model does not show in phase currents in upper and lower parts of the vertical.

> between the wire stub and the antenna which doesn't exist between the
> ideal transmission line and the antenna, so performance is different.
>
> You might as well leave your source open circuited as to connect it to
> the shorted end of the transmission line stub. The current into one

I don't think I did that.

> transmission line conductor always equals the current out of the
> other, so if the two are shorted, no more current can go into or out
> of the shorted end. Therefore, any external connection to it looks
> like an open circuit since no current will flow through the external
> connection.
>
> What's a type 6 source (EX 6)? The NEC-2 and NEC-4 documentation I
> have defines only types 1 - 5.

I have been playing with this in EZNEC and 4NEC2. The deck I offered was from 4NEC2 as my EZNEC files are binaries and couldn't go inline. The EX 6 is an extension for a current source. It is immaterial in this case, and the 6 can be changed to a 0.

Thanks.
Owen

1650. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 16:23:36 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <0aab4893-0b17-47ff-aaeb-bac932c510b3@z9g2000yqi.googlegroups.com>
Source record: 16974

On Mar 16, 12:21 am, Roy Lewallen <w...@eznec.com> wrote:
> > Hi Owen,
>
> > I suppose that R.W.P. King disagrees with the "common explanation."
> > He makes it quite clear that there is interaction of the antenna field
> > with the stub perpendicular to the axis of the antenna wire, and that
> > the coaxial stub does not interact in the same way and the antenna
> > performance is therefore different. (Antennas chapter of Transmission
> > Lines, Antennas and Wave Guides, King, Mimno and Wing.) This is why I
> > like using a feedline to guarantee the phasing. It can be done by
> > driving collinear dipoles with equal lengths of transmission line, or
> > by using an arrangement like the "coaxial collinear," where the
> > radiating elements are outer conductors of coaxial transmission lines
> > used to insure that the multiple feedpoints are at least fed in-phase
> > voltages (and you have to consider that the currents are not exactly
> > in phase).
>
> > Cheers,
> > Tom
>
> In most phased arrays, the objective is to get the fields from the
> elements to be in some particular ratio. Driving them with currents in
> that same ratio doesn't always accomplish the desired field ratio,
> though, when elements have different current distributions as they often
> do. (Seehttp://eznec.com/Amateur/Articles/Current_Dist.pdf.) The
> difference between field ratio and feedpoint current ratio is
> particularly great when base feeding half wave elements. As it turns
> out, you'll often get better field ratios by feeding with voltages
> having the desired magnitude ratio and phase difference than feeding
> with properly ratioed currents, when dealing with end fed half wave
> elements. The coaxial collinear requires a pretty delicate balance of
> outer and inner velocity factors as well as the effects of mutual
> coupling, particularly when there are more than a couple of elements. So
> I suspect that the current distribution can either help or hinder
> depending on how the factors are traded off. I wouldn't be surprised,
> though, if ratioing the voltages rather than currents is actually helpful.
>
> As an illustration, open the EZNEC example file Cardioid.EZ. Change the
> number of segments to 10 per wire for better accuracy. (It can still be
> run with the demo program.) Click FF Plot and note the nice cardioid
> pattern. Then change the Z coordinates of End 2 of the two wires to 0.47
> m to make them nearly anti-resonant, and click FF Plot again. The
> pattern deterioration is due to the elements having different current
> distributions. Finally, change the source types from I to V. This will

> force the voltages, rather than currents, at the antenna bases to be in
> the desired ratio. Run FF Plot again. You still won't have the nice
> cardioid back, but it's quite an improvement over the pattern with
> "correctly" ratioed base currents. The bottom line is that the element
> currents are more closely related to the base voltages than the base
> currents, when the elements are near anti-resonance (parallel, or half
> wave, resonance).
>
> Roy Lewallen, W7EL

Thanks for the clarifications, Roy. Indeed, with my last slightly cryptic comment about considering that currents might not be in phase, I was wanting to communicate that you always want to check the currents on the elements to make sure they do what you want. That's true no matter how you feed the antenna, though as you say the feed you use may aid in insuring that the currents stay the way you want.

I'm a bit surprised about your comment about the coaxial (fed) collinear requiring a "pretty delicate balance" between coax propagation velocity and (presumably) radiating element geometry. What I've found in my simulations is that I could change the coax vf, keeping the elements a transmission-line half wave long so that the feedpoints were all the same in-phase voltage, and the net gain of the antenna for a given physical length was only slightly affected. I'd typically see a couple of the elements in a ten element array with considerably lower current magnitude, but the currents were nearly in-phase on all the elements, and the pattern was always the desired "flat pancake". On the other hand, I wasn't trying for any up or down slope to the pattern, and I can see that things might change in that case. With the propagation velocities I was using, between 0.66 and about 0.9, and the element diameters I was using, I suppose the elements were always shorter than resonance, and the self and mutual impedances were not changing in any dramatic fashion.

Or, perhaps my model was all screwed up! ;-)

Cheers,
Tom

1651. The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 18:03:39 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49be94d8$0$1518$6d4158fb@reader.xsnews.nl>
Source record: 16975

Yeah the folded dipole that is. We see there 4 x ï¿½ = 2 lambda.
Following the antennabook one can earth the middle of that folded dipole.
And feed it with a coax.
So from there we can bridge the mantle from the coax to the middle of the straight dipole piece. See it ? Now my problem in visualising that; the current from hot goes to the ï¿½ wave dipole....hits ground there.....appears out of the ground(!).... hits the second ï¿½ wave....and dives back in the coax mantle. If this is true i can't imagine it !

Now the violin string. Take one string attached between two walls or whatever.
Exite it. Now ground the string in the middle.....exite the first half......and the second halve will vibrate also ?? Thru ground ??

Are the two statements right? The mind boggles.

1652. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 19:07:45 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <elednRTIvf4bPiPUnZ2dnUVZ_qfinZ2d@posted.easystreetonline>
Source record: 16976

Owen Duffy wrote:
>
> I think that is what I had done, but I used the same diameter top to
> bottom.

Sorry, my mistake when looking at the source. Your model is just as I described. I apologize for the error.

>
> Here is a revised deck with different diameters:
>
> CM
> CE
> GW 10 1 0 -2 2 0 -2 2.1 0.005
> GW 1 15 0 0 0 0 0 5 0.015
> GW 2 30 0 0 5 0 0 15 0.005
> GE 1
> GN 1
> EK
> EX 0 1 1 1 0
> TL 10 1 2 1 50 5 1e+99 1e+99 0.0001
> FR 0 0 0 0 15 0
> EN
>
> In the above, the lower conductor is three times the diameter of the
> upper conductor. The TL is wired into the lowest segment of the upper
> conductor. Again, I have shunted the TL with 10k R to represent loss in a
> real TL.
>
> This model does not show in phase currents in upper and lower parts of
> the vertical.

I've been running your model without the loss, and I'm seeing currents in the upper and lower wires which are nearly 180 degrees out of phase.

>> between the wire stub and the antenna which doesn't exist between the
>> ideal transmission line and the antenna, so performance is different.

For sure -- maximum gain is about 46 degrees above the horizon.

>> You might as well leave your source open circuited as to connect it to
>> the shorted end of the transmission line stub. The current into one
>
> I don't think I did that.

You're right, you didn't. My mistake.

> . . .

In playing with the model, I noticed something surprising -- length and Z0 of the transmission line have very little effect on the pattern, even over wide ranges (5 to 5000 ohm Z0, lengths from essentially zero to one wavelength). In fact, try removing the transmission line altogether, leaving the wires connected directly together and look at the pattern. Then try changing one wire end slightly to break the connection between them -- again, very little change in the pattern. The fact is that the junction of the two wires is at a point of very little current, so you can connect or disconnect them with almost no change. Likewise, you can insert just about anything (of zero physical size), including an ideal transmission line of any length, without any real effect. So the transmission line stub doesn't really do anything significant at all. What I don't understand yet is exactly why the wire stub does what it does. It sure doesn't work like the simplified explanations imply.

Roy Lewallen, W7EL

1653. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 19:12:42 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <elednRflvf4zOSPUnZ2dnUVZ_qfinZ2d@posted.easystreetonline>
Source record: 16977

Calltrex wrote:
>
> Yeah the folded dipole that is. We see there 4 x ï¿½ = 2 lambda.
> Following the antennabook one can earth the middle of that folded dipole.
> And feed it with a coax.
> So from there we can bridge the mantle from the coax to the middle of
> the straight
> dipole piece. See it ? Now my problem in visualising that; the current
> from hot goes
> to the ï¿½ wave dipole....hits ground there.....appears out of the
> ground(!).... hits the
> second ï¿½ wave....and dives back in the coax mantle. If this is true i
> can't imagine it !
>
> Now the violin string. Take one string attached between two walls or
> whatever.
> Exite it. Now ground the string in the middle.....exite the first
> half......and the second
> halve will vibrate also ?? Thru ground ??
>
> Are the two statements right? The mind boggles.

It's even cooler than that. You can put two antennas miles apart with
nothing but space between. Put current through one, and current will
appear in the other -- THROUGH SPACE!

Put two violins close together and pluck the string of one. The
corresponding string of the other will vibrate. THROUGH AIR!

You mind has just begun to boggle.

Roy Lewallen, W7EL

1654. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 20:24:55 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gpm92h$g7d$1@news.service.uci.edu>
Source record: 16978

Calltrex wrote:
>
> Yeah the folded dipole that is. We see there 4 x ï¿½ = 2 lambda.
> Following the antennabook one can earth the middle of that folded dipole.
> And feed it with a coax.
> So from there we can bridge the mantle from the coax to the middle of
> the straight
> dipole piece. See it ? Now my problem in visualising that; the current
> from hot goes
> to the ï¿½ wave dipole....hits ground there.....appears out of the
> ground(!).... hits the
> second ï¿½ wave....and dives back in the coax mantle. If this is true i
> can't imagine it !
>
> Now the violin string. Take one string attached between two walls or
> whatever.
> Exite it. Now ground the string in the middle.....exite the first
> half......and the second
> halve will vibrate also ?? Thru ground ??
>
> Are the two statements right?

The statement in the antenna book is probably correct. The statement
4 x 1/4 = 2 is not correct. With regard to violin strings, they only
vibrate if they are mechanically stimulated. Otherwise they behave in a
manner similar to other inanimate objects. :-)

73, ac6xg

1655. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 21:33:31 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD1571078F49nonenowhere@61.9.191.5>
Source record: 16979

Hi Roy,

Roy Lewallen <w7el@eznec.com> wrote in
news:eIednRTIvf4bPiPUnZ2dnUVZ_qfinZ2d@posted.easystreetonline:

...

Thanks, all noted.

> What I don't understand
> yet is exactly why the wire stub does what it does. It sure doesn't
> work like the simplified explanations imply.

Returning to my diagram a), below is an expansion of the detail at the junction of the stub and vertical sections.

```
|
|
|
|
|
|
|
| A
B |
---------------------|

--------------------|
|
C |
| D
|
|
|
|
|
|
|
|
```

It strikes me that if we omit the stub all together, and leave a gap in its place, we have two unconnected resonant elements, the top half wave, and the bottom quarter wave with a driving source. The two elements are field coupled to some extent, and currents will setup in each section out of phase. NEC models support this, and I think they are correct in doing so.

Returning now to a) with the stub connected and very close to resonance, and with reference to the diagram above, for A, B, C and D very close to the corners, I(A)=I(B) and I(C)=I(D).

If the desired outcome of using the stub is that the upper and lower sections are in phase, then I(A)~=I(D). That implies common mode current in the stub, so to cause I(A)~=I(D), the stub must have common mode current (equal to (I(A)+I(D))/2 per conductor).

If that is true, then reduction of the physical stub to a pure differential mode TL element is discarding part of what makes it "work". That implies that replacement of the stub with a two terminal equivalent impedance, eg by insertion of a load in an NEC segment, or insertion of one port of a TL network in an NEC segment is an inadequate model.

Am I on the wrong track here?

Owen

1656. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-16 21:41:38 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD1587067BD0nonenowhere@61.9.191.5>
Source record: 16980

Roy Lewallen <w7el@eznec.com> wrote in
news:eIednRfIvf4zOSPUnZ2dnUVZ_qfinZ2d@posted.easystreetonline:

> Put two violins close together and pluck the string of one. The
> corresponding string of the other will vibrate. THROUGH AIR!

Then consider the (say) three strings of a piano note, and that if their resonant frequencies are close enough, they vibrate in phase (that implies at the same frequency of course), well they do until the amplitude of vibration dies down sufficiently and they 'unlock' and vibrate independently.
>
> You mind has just begun to boggle.

Now, somehow I can see this being used to explain an antenna.

I hear the behaviour of a string in a violin being used to explain why resonant antennas are just better, and how they "fairly suck the power out of the transmitter, like a string sucks the power out of the bow".

Owen

1657. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 03:14:15 UTC
From: Jon Teske <jdteske@comcast.net>
Message-ID: <be2ur4tdr7htid8od7ntevmomk83eee9p8@4ax.com>
Source record: 16981

On Mon, 16 Mar 2009 12:24:55 -0800, Jim Kelley <jwkelley@uci.edu>
wrote:

>Calltrex wrote:
>>
>> Yeah the folded dipole that is. We see there 4 x ï¿½ = 2 lambda.
>> Following the antennabook one can earth the middle of that folded dipole.
>> And feed it with a coax.
>> So from there we can bridge the mantle from the coax to the middle of
>> the straight
>> dipole piece. See it ? Now my problem in visualising that; the current
>> from hot goes
>> to the ï¿½ wave dipole....hits ground there.....appears out of the
>> ground(!).... hits the
>> second ï¿½ wave....and dives back in the coax mantle. If this is true i
>> can't imagine it !
>>
>> Now the violin string. Take one string attached between two walls or
>> whatever.
>> Exite it. Now ground the string in the middle.....exite the first
>> half......and the second
>> halve will vibrate also ?? Thru ground ??
>>
>> Are the two statements right?
>
>The statement in the antenna book is probably correct. The statement
>4 x 1/4 = 2 is not correct. With regard to violin strings, they only
>vibrate if they are mechanically stimulated. Otherwise they behave in a
>manner similar to other inanimate objects. :-)
>
>73, ac6xg

Well as both a ham and a better than competent violinst (I play in
symphonies and also do solo recitals.) I have been playing violin for
57 years vice only 53 years as a ham, so I am a bit of a rookie on the
ham side of things. You are sort of right and sort of confusing the
laws of acoustics with the laws of electronics.

When we bisect the violin string (which gives you an octave of the
open string) the played (excited) part will give you a frequency
double that of the open string. We violinists prefer to think of that
as an octave. In practice, the unexcited string is damped to
inaudibility. Aside from our standard tuning note of A= 440 Hz,
violinists don't normally think of frequencies. In practice though
violin strings don't give out pure sine waves, they have all sorts of

somewhat random overtones, something which, along with the resonant box we call a violin, give each instrument its character. Without them we'd sound like a MIDI keyboard. The only time both sides of a stopped string vibrate is when we play what we call a "harmonic" and there are several of them on violin strings. A harmonic is when the violinist lightly touches the string so that the unexcited side (e.g. not the bowed side) can also vibrate and these have their own set of rules and playing implications. Fortunately the composers usually indicated this stuff for us, so we really don't have to think very much about the physics of all of this.
If we lightly touch the violin string at the octave point rather than pressing all the way down as we usually do, we get something of a whistleing sound an octave higher than the normal stopped note (both sides ot the sting are vibrating.) If we touch lightly at the interval of a fourth above an open string (on an E string, this would be A above the E string, and the resultant sound is two octaves above the fundamental because you are dividing the string at a one-fourth point and are creating what in effect is a standing wave (though that concept is unknown among violinsts unless they happen to be EE's or hams.) Of course I wave length at our frequencies doesn't quite come out 300,000,000 / frequency = Lambda. We'd have some pretty damn long strings at A above middle C. I think that comes out to a wavelength of 68,181 meters. Just wouldn't fit on a violin.

If you touch one note above that (B natural on the E string) the result is a not an octave and a fifth (or high B) above the fundamental frequency, because lightly stopping the B and causing it to vibrate on both side of the stop divides the string into thirds.

In practice though violin strings are all over the map as to what is vibrating where and when, though if violins would produce pure sine wave instead of a rich blend of harmonics and overtones. If the FCC monitored violin harmonics, I doubt we could meet the 40 db spectral puriity requirement. Mercifully the Gov't stays out of the violin world.

At a lab level, we can sort of come up with a demo of sympathetic vibrations. In practice, of course we don't. Few violinist are actually that close to in tune (close, but not exact...otherwise and orchestra would sound like a signal generator.) In string instrument history, going back to about the early 15th century, The string insturments known a viols in some cases actually did have a set of strings under the bridge which did vibrate sympathetically giving an effect somewhat similar to the wow-wow effect of a cheap organ. Most of these instruments are know played by historical music specialists and are generally out of the mainstream of the orchestral world in which I dwell, but there are a few compositions which call for the Viola d'Amore which does have such strings. (there is a short solo in the Opera "Manon" by Massenet which calls for this instrument and its sympathetically vibrating strings. Those string has some technical name, but I don't remember what they are called.)

Somehow, despite knowing both RF theory pretty well and violin playing damn well, I never really ever considered the positioning of my fingers in playing as analogous to "grounding." I must work on that one.

I don't think I have ever also considered my violins strings to have impedance, or reactance, and I haven't quite considered the feedline problem. Is my bow a 52 ohm feed point or 72 Ohms? :-) My bows don't have any PL-259s or BNCs on the, just horse hair. Resonance, of course is provided by the violin body, but I've never considered this in terms of RF resonance. Interesting concept.

Now if we could do something like a Yagi and get sympathetic strings to provide director and reflector gain and front to back ratios, we might solves a lot of auditorium problems and not be blasted to inaudibilty by the brass instruments which of course do have rather considerable front to back ratios (though the French Horns have theirs the wrong way.)

Now I have to reconcile my fiddle knowledge with all the stuff I had to learn to pass my FCC tests. I'm old enough to have passed the General and Extra tests before they were multiple choice format. The music certainly helps with the code.

Jon Teske, W3JT and concert violinist.

1658. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 04:18:35 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <49bf2577$0$3321$afc38c87@news.optusnet.com.au>
Source record: 16982

I'm also a ham and a one-time violist, as well as an amateur
instrument-maker.

Jon Teske wrote:
> The only time both sides of a
> stopped string vibrate is when we play what we
> call a "harmonic" and there are several of them on violin strings. A
> harmonic is when the violinist lightly touches the string so that the
> unexcited side (e.g. not the bowed side) can also vibrate

In particular, you have to touch lightly enough that some energy
can couple into the other half of the string. Some of the energy
is transferred through up-down motion and some through the bending-
stiffness of the string itself. You could see the finger as a series
capacitor to ground, attached to each half of the string by a pair
of resisters bypassed by another capacitor. You can tweak the values
by the way you touch.

> I don't think I have ever also considered my violins strings to have
> impedance, or reactance, and I haven't quite considered the feedline
> problem.

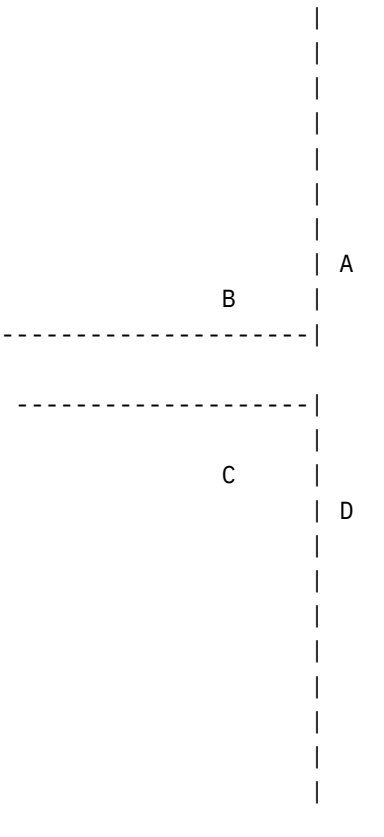
Mechanical impedance/reactance is a widely used idea in mechanical
and civil engineering. The dynamic motion of bridges and buildings
is sometimes even modelled using electronic circuit modelling tools
amongst other methods.

Clifford Heath.

1659. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 04:43:08 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <498e9895-afd9-4d78-aa7c-fb7401327c1b@o8g2000pre.googlegroups.com>
Source record: 16983

On Mar 16, 2:33 pm, Owen Duffy <n...@no.where> wrote:
> Hi Roy,
>
> Roy Lewallen <w...@eznec.com> wrote
innews:eIednRTIvf4bPiPUnZ2dnUVZ_qfinZ2d@posted.easystreetonline:
>
> ...
>
> Thanks, all noted.
>
> > What I don't understand
> > yet is exactly why the wire stub does what it does. It sure doesn't
> > work like the simplified explanations imply.
>
> Returning to my diagram a), below is an expansion of the detail at the
> junction of the stub and vertical sections.
>



>
> It strikes me that if we omit the stub all together, and leave a gap in
> its place, we have two unconnected resonant elements, the top half wave,
> and the bottom quarter wave with a driving source. The two elements are

> field coupled to some extent, and currents will setup in each section out
> of phase. NEC models support this, and I think they are correct in doing
> so.
>
> Returning now to a) with the stub connected and very close to resonance,
> and with reference to the diagram above, for A, B, C and D very close to
> the corners, I(A)=I(B) and I(C)=I(D).
>
> If the desired outcome of using the stub is that the upper and lower
> sections are in phase, then I(A)~=I(D). That implies common mode current
> in the stub, so to cause I(A)~=I(D), the stub must have common mode
> current (equal to (I(A)+I(D))/2 per conductor).
>
> If that is true, then reduction of the physical stub to a pure
> differential mode TL element is discarding part of what makes it "work".
> That implies that replacement of the stub with a two terminal equivalent
> impedance, eg by insertion of a load in an NEC segment, or insertion of
> one port of a TL network in an NEC segment is an inadequate model.
>
> Am I on the wrong track here?
>
> Owen

For what it's worth, I think you're on exactly the right track, Owen.

Some things to ponder: does it make any significant difference if the stub is, say, 2mm wires spaced 20mm apart or 1mm wires spaced 10mm apart (that is, the same impedance line, but different physical size), and does it make any significant difference if the wires are kept in a plane that includes the antenna elements, or if they are twisted near their attachment point so they lie in a plane perpendicular to the antenna wire, or if they are twisted throughout their length? What if they are coiled in a spiral out from the antenna wire, so their shorted end lies much closer than a quarter wave from the axis of the antenna? I don't have any answers to these questions; they just seem like an interesting and reasonable extension of your original question.

Cheers,
Tom

1660. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 05:08:46 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <cb900fbc-ab06-44c8-8889-930263a6e873@o2g2000prl.googlegroups.com>
Source record: 16984

On Mar 16, 2:33 pm, Owen Duffy <n...@no.where> wrote:
> Hi Roy,
>
> Roy Lewallen <w...@eznec.com> wrote
innews:eIednRTIvf4bPiPUnZ2dnUVZ_qfinZ2d@posted.easystreetonline:
>
> ...
>
> Thanks, all noted.
>
> > What I don't understand
> > yet is exactly why the wire stub does what it does. It sure doesn't
> > work like the simplified explanations imply.
>
> Returning to my diagram a), below is an expansion of the detail at the
> junction of the stub and vertical sections.
>
>
>

> field coupled to some extent, and currents will setup in each section out
> of phase. NEC models support this, and I think they are correct in doing
> so.
>
> Returning now to a) with the stub connected and very close to resonance,
> and with reference to the diagram above, for A, B, C and D very close to
> the corners, I(A)=I(B) and I(C)=I(D).
>
> If the desired outcome of using the stub is that the upper and lower
> sections are in phase, then I(A)~=I(D). That implies common mode current
> in the stub, so to cause I(A)~=I(D), the stub must have common mode
> current (equal to (I(A)+I(D))/2 per conductor).
>
> If that is true, then reduction of the physical stub to a pure
> differential mode TL element is discarding part of what makes it "work".
> That implies that replacement of the stub with a two terminal equivalent
> impedance, eg by insertion of a load in an NEC segment, or insertion of
> one port of a TL network in an NEC segment is an inadequate model.
>
> Am I on the wrong track here?
>
> Owen

I'm sorry...perhaps I don't understand your notation. Don't you expect that the current at A will be (rather roughly) out of phase with the current at D? If I think about a collinear with three half-wave elements end to end, and drive the center of the center element, if it's going to act like I want, I'll have high current near the middle of each element, and those three will be in-phase. Because of the mutual impedances among the elements, things get a bit funny at the ends. I suppose there is a fairly large voltage across the gap between adjacent elements, and therefore there will be moderately high current near those ends to account for the capacitive current in the air between them. That's what I'm seeing in the EZNEC model I just hacked, and it's as I'd expect. The currents near the ends of the central element are considerably higher than the currents near the open ends of the outer elements.

(Now to spend a few minutes playing with changing the length of the stubs through resonance...)

Cheers,
Tom

1661. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 06:39:01 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD1B38CBAB83nonenowhere@61.9.191.5>
Source record: 16985

Hi Tom,

K7ITM <k7itm@msn.com> wrote in
news:cb900fbc-ab06-44c8-8889-930263a6e873@o2g2000prl.googlegroups.com:

...
> I'm sorry...perhaps I don't understand your notation. Don't you

I am taking a convention that the sense of currents in segments is from
bottom to top. That means that I defined all segments in order from bottom
to top.

My notation ~= is to mean approximately equal.

Does that clarify things?

Cheers
Owen

1662. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 06:51:35 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <9b11c6f7-d079-4c8b-b743-88f11d188d4c@d19g2000prh.googlegroups.com>
Source record: 16986

On Mar 16, 11:39 pm, Owen Duffy <n...@no.where> wrote:
> Hi Tom,
>
> K7ITM <k7...@msn.com> wrote
innews:cb900fbc-ab06-44c8-8889-930263a6e873@o2g2000prl.googlegroups.com:
>
> ...
>
> > I'm sorry...perhaps I don't understand your notation. Don't you
>
> I am taking a convention that the sense of currents in segments is from
> bottom to top. That means that I defined all segments in order from bottom
> to top.
>
> My notation ~= is to mean approximately equal.
>
> Does that clarify things?
>
> Cheers
> Owen

Yes--and then if they were exactly equal, would that not imply only
transmission line current on the stub? Obviously, they are exactly
equal if you simply connect the ends of the elements together...but
that isn't what gets us to in-phase currents at the centers of each
element (in the case of the symmetrical 3 element design; or the base
current in the bottom quarter wave in phase with the center current in
the top half wave...), and (nearly) equal currents at those current
maxima. To the extent that the currents A and D in your diagram
differ, there is common-mode or "antenna" current on the stub.

Cheers,
Tom

1663. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 08:31:14 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD1C693261B1nonenowhere@61.9.191.5>
Source record: 16987

K7ITM <k7itm@msn.com> wrote in
news:9b11c6f7-d079-4c8b-b743-88f11d188d4c@d19g2000prh.googlegroups.com:

...
> Yes--and then if they were exactly equal, would that not imply only
> transmission line current on the stub? Obviously, they are exactly

Thinking some more about it, my current thinking is that my analysis was flawed. I was using the standing wave currents, when I should be using the travelling wave components.

I suspect that when NEC models the conductor arrangement at my fig a), it correctly accounts for propagation delay and the phase relationships compute correctly.

If we replace the stub with a TL element, I suspect that NEC reduces the TL to a two port network and loads a segment of the vertical with an equivalent steady state impedance of the s/c stub network. If that is done, the reduction to a lumped load means that there is zero delay to travelling waves, and the computed currents (amplitude and phase) in the vertical will be incorrect. This means that you cannot replace a resonant stub with a high value of resistance, it doesn't work.

If that is the case, it suggests that NEC cannot model such phasing schemes using TL elements.

Owen

1664. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 14:18:29 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <WiOvl.9941$jZ1.6531@flpi144.ffdc.sbc.com>
Source record: 16988

Owen Duffy wrote:
> Thinking some more about it, my current thinking is that my analysis was
> flawed. I was using the standing wave currents, when I should be using
> the travelling wave components.

That's exactly the flaw committed by w8ji and w7el when
they tried to measure the delay through a 75m loading
coil using standing wave current which doesn't appreciably
change phase through a loading coil or through the entire
90 degree length of a monopole. Using standing wave
current, w8ji measured a 3 nS delay through a 10 inch
long coil, a VF of 0.27.

http://www.w8ji.com/inductor_current_time_delay.htm

W7EL reported: "I found that the difference in current
between input and output of the inductor was 3.1% in
magnitude and with *no measurable phase shift*, despite
the short antenna... The result from the second test was
a current difference of 5.4%, again with *no measurable
phase shift*."

Of course, phase shift is not measurable when one is
using standing wave current with its almost unchanging
phase. EZNEC supports that assertion. Bench measurements
support that assertion.

When traveling waves are used to measure the delay through
a 75m loading coil, the correct delay through w8ji's 10
inch coil turns out to be about 26 nS (~37 degrees) at 4 MHz
with a more believable VF of 0.033.

http://www.w5dxp.com/current2.htm
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1665. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 16:47:03 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <QoQvl.13889$8_3.3071@flpi147.ffdc.sbc.com>
Source record: 16989

Owen Duffy wrote:
> K7ITM <k7itm@msn.com> wrote in
> news:9b11c6f7-d079-4c8b-b743-88f11d188d4c@d19g2000prh.googlegroups.com:
>
> ...
>> Yes--and then if they were exactly equal, would that not imply only
>> transmission line current on the stub? Obviously, they are exactly
>
> Thinking some more about it, my current thinking is that my analysis was
> flawed. I was using the standing wave currents, when I should be using
> the travelling wave components.
>
> I suspect that when NEC models the conductor arrangement at my fig a), it
> correctly accounts for propagation delay and the phase relationships
> compute correctly.
>
> If we replace the stub with a TL element, I suspect that NEC reduces the
> TL to a two port network and loads a segment of the vertical with an
> equivalent steady state impedance of the s/c stub network. If that is
> done, the reduction to a lumped load means that there is zero delay to
> travelling waves, and the computed currents (amplitude and phase) in the
> vertical will be incorrect. This means that you cannot replace a resonant
> stub with a high value of resistance, it doesn't work.
>
> If that is the case, it suggests that NEC cannot model such phasing
> schemes using TL elements.
>
> Owen

Why would NEC reduce a TL two-port to a lumped load? Two-port
parameters can handle transmission line problems quite well without
the simplifying assumption that all components are of zero length.
73,
Tom Donaly, KA6RUH

1666. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 16:52:21 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <ezQvl.20705$YU2.13783@nlpi066.nbdc.sbc.com>
Source record: 16990

Cecil Moore wrote:
> Owen Duffy wrote:
>> Thinking some more about it, my current thinking is that my analysis
>> was flawed. I was using the standing wave currents, when I should be
>> using the travelling wave components.
>
> That's exactly the flaw committed by w8ji and w7el when
> they tried to measure the delay through a 75m loading
> coil using standing wave current which doesn't appreciably
> change phase through a loading coil or through the entire
> 90 degree length of a monopole. Using standing wave
> current, w8ji measured a 3 nS delay through a 10 inch
> long coil, a VF of 0.27.
>
> http://www.w8ji.com/inductor_current_time_delay.htm
>
> W7EL reported: "I found that the difference in current
> between input and output of the inductor was 3.1% in
> magnitude and with *no measurable phase shift*, despite
> the short antenna... The result from the second test was
> a current difference of 5.4%, again with *no measurable
> phase shift*."
>
> Of course, phase shift is not measurable when one is
> using standing wave current with its almost unchanging
> phase. EZNEC supports that assertion. Bench measurements
> support that assertion.
>
> When traveling waves are used to measure the delay through
> a 75m loading coil, the correct delay through w8ji's 10
> inch coil turns out to be about 26 nS (~37 degrees) at 4 MHz
> with a more believable VF of 0.033.
>
> http://www.w5dxp.com/current2.htm

Cecil, if I ever have a dead horse on my hands, I won't let you
near it because you'll beat it even deader.
73,
Tom Donaly, KA6RUH

1667. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 17:13:56 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <8d0913e4-5e0f-4e21-a34a-78624867f1f3@r18g2000vbi.googlegroups.com>
Source record: 16991

On Mar 17, 1:31 am, Owen Duffy <n...@no.where> wrote:
> K7ITM <k7...@msn.com> wrote
innews:9b11c6f7-d079-4c8b-b743-88f11d188d4c@d19g2000prh.googlegroups.com:
>
> ...
>
> > Yes--and then if they were exactly equal, would that not imply only
> > transmission line current on the stub? Obviously, they are exactly
>
> Thinking some more about it, my current thinking is that my analysis was
> flawed. I was using the standing wave currents, when I should be using
> the travelling wave components.
>
> I suspect that when NEC models the conductor arrangement at my fig a), it
> correctly accounts for propagation delay and the phase relationships
> compute correctly.
>
> If we replace the stub with a TL element, I suspect that NEC reduces the
> TL to a two port network and loads a segment of the vertical with an
> equivalent steady state impedance of the s/c stub network. If that is
> done, the reduction to a lumped load means that there is zero delay to
> travelling waves, and the computed currents (amplitude and phase) in the
> vertical will be incorrect. This means that you cannot replace a resonant
> stub with a high value of resistance, it doesn't work.
>
> If that is the case, it suggests that NEC cannot model such phasing
> schemes using TL elements.
>
> Owen

Of course, if the TL model doesn't "know about" the antenna field
(which I believe is in fact the case), there will be no common-mode
current on it because of that field. It's pretty clear to me that the
common-mode current is very important to correctly simulating the
situations you are interested in. In fact, figure (B) of your
original posting puts the stub in a position where it does not see the
antenna field, and I would expect it to behave much differently from
the perpendicular stub of figure (A).

One of the things I did in my simulation playing last night was to
delete the stubs, leaving just the three 1/2 wave elements end-to-end
with a bit of gap between them. (0.01m gap between 0.5m elements, 1mm
diameter, 11 segments each.) I'm sure you know what that pattern and
current distribution look like. Then I added sources at the centers
of the outer elements. I set all the sources to 1 amp, in-phase. The

pattern was somewhat sharper (though just marginally more gain) than the stub-coupled case. What I didn't try, but will as I have a chance, is to put sources at the centers of the outer elements and set them to the values (magnitudes and phases) I see in the stub-coupled collinear, and see how much the current distribution near the ends looks like the stub coupled case. I suppose it will be pretty close, and the antenna pattern will look very similar to the stub coupled pattern.

Thanks for bringing this subject up. I'm learning something from it.

Cheers,
Tom

1668. Receiver antenna/amplifier matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 17:16:08 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <tVQvl.65318$PS5.54384@en-nntp-07.dc1.easynews.com>
Source record: 16992

I'm trying to figure something out here...

Assume that I have a 2m antenna that (through whatever means) happens to have an impedance in the ballpark of 50ohms. Also assume that this antenna will generate 1uV open-circuit.

Assume that I have a MMIC amplifier that has FET inputs and therefore has a high input impedance... let's say it's 500ohms.

If I directly connect the antenna to the amplifier, the amplifier input effectively sees ~0.909uV and then amplifies it.

If I build a matching network to make the amplifier "appear" as 50ohms, at the input of the matcing network I'll have 0.5uV, but since energy has to be conserved (my matching network is assumed to be lossless), (0.5uV)^2/50=Vamp^2/500 --> Vamp=1.58uV. This is a gain of 20log(1.56/0.909)=4.8dB over a direct connection.

Is that all correct?

Now let's go down to HF. My antenna is still 50ohms, but at such low frequencies parasitics aren't that bad and I just use a JFET or MOSFET and have a 5kohm input impedance. In this case, without the matching network, the amplifier sees 0.99uV. With the matching network, it sees 5uV (!), a gain of 14.1dB over a direction connection.

Yet many designs for HF/shortwave antenna amplifiers don't bother with a matching network, just feeding the antenna directly into a FET. So why is this? Is the extra gain just not needed on HF? Or too unwiedly to build when you're trying to cover everything from 1MHz-30MHz?

Thanks for the help,
---Joel Koltner

1669. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 17:26:00 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49bfdd92$0$10247$6d4158fb@reader.xsnews.nl>
Source record: 16993

The early radio pioneers were schooled in acoustics, mechanics en chemistry.
So they understood quite soon how to resonate the electric version of a wave.
That takes a bit of the mystery away.

Yes, 4 x ï¿½ = 1 lambda. So a folded dipole is 1 lambda and an open dipole is
a half lambda. But a folded dipole can thus be halved. A sort of trombone shape.

BUT the ends resonate with tension right ? So we have to feed one end with
high impedance also. Next detail and the big question for me; may the other end
be grounded ? In case of a situation where no counterpoise can be installed.

Because of the folded dipole which is earthted in the straight middle, i think the
half wave end fed can be earthed. Agreed ? The idea is to topfeed a mast which
stands in conductive grounds. So ï¿½ wire up and the tower is ï¿½ wave down,
which to my paper insight should work as an ï¿½ wave antenna ? pls say yes. :-) ?

1670. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 18:06:11 UTC
From: Jon Teske <jdteske@comcast.net>
Message-ID: <5ojvr4lhk333srcl7b6fclvhv48u5cfge6@4ax.com>
Source record: 16994

On Tue, 17 Mar 2009 15:18:35 +1100, Clifford Heath
<no@spam.please.net> wrote:

>I'm also a ham and a one-time violist, as well as an amateur
>instrument-maker.

Yeah! I am not alone. BTW I also play viola at a symphonic level.
Never tried making any life is too short to do both.
>
>Jon Teske wrote:
>> The only time both sides of a
>> stopped string vibrate is when we play what we
>> call a "harmonic" and there are several of them on violin strings. A
>> harmonic is when the violinist lightly touches the string so that the
>> unexcited side (e.g. not the bowed side) can also vibrate
>
>In particular, you have to touch lightly enough that some energy
>can couple into the other half of the string. Some of the energy
>is transferred through up-down motion and some through the bending-
>stiffness of the string itself. You could see the finger as a series
>capacitor to ground, attached to each half of the string by a pair
>of resisters bypassed by another capacitor. You can tweak the values
>by the way you touch.

Yeah I forgot to mention the energy transfer side of that. Since
harmonics are hard enough to produce in any event, a tunable capacitor
might be welcome. Unfortunately a fiddler has only two hand, both
heavily employed.
>
>> I don't think I have ever also considered my violins strings to have
>> impedance, or reactance, and I haven't quite considered the feedline
>> problem.
>
>Mechanical impedance/reactance is a widely used idea in mechanical
>and civil engineering. The dynamic motion of bridges and buildings
>is sometimes even modelled using electronic circuit modelling tools
>amongst other methods.

I guess that is the thing they forgot to calculate, or didn't know
how, on the infamous Takoma Narrows Bridge in Washington State which
collapsed when cross winds cause wild vibrations.

Jon Teske W3JT
>
>Clifford Heath.

1671. Re: Receiver antenna/amplifier matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 19:08:45 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <1418bcab-a702-4a1d-b74a-92dfa7c87e60@n20g2000vba.googlegroups.com>
Source record: 16995

On Mar 17, 10:16 am, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> I'm trying to figure something out here...
>
> Assume that I have a 2m antenna that (through whatever means) happens to have
> an impedance in the ballpark of 50ohms. Also assume that this antenna will
> generate 1uV open-circuit.
>
> Assume that I have a MMIC amplifier that has FET inputs and therefore has a
> high input impedance... let's say it's 500ohms.
>
> If I directly connect the antenna to the amplifier, the amplifier input
> effectively sees ~0.909uV and then amplifies it.
>
> If I build a matching network to make the amplifier "appear" as 50ohms, at the
> input of the matcing network I'll have 0.5uV, but since energy has to be
> conserved (my matching network is assumed to be lossless),
> (0.5uV)^2/50=Vamp^2/500 --> Vamp=1.58uV. This is a gain of
> 20log(1.56/0.909)=4.8dB over a direct connection.
>
> Is that all correct?
>
> Now let's go down to HF. My antenna is still 50ohms, but at such low
> frequencies parasitics aren't that bad and I just use a JFET or MOSFET and
> have a 5kohm input impedance. In this case, without the matching network, the
> amplifier sees 0.99uV. With the matching network, it sees 5uV (!), a gain of
> 14.1dB over a direction connection.
>
> Yet many designs for HF/shortwave antenna amplifiers don't bother with a
> matching network, just feeding the antenna directly into a FET. So why is
> this? Is the extra gain just not needed on HF? Or too unwiedly to build when
> you're trying to cover everything from 1MHz-30MHz?
>
> Thanks for the help,
> ---Joel Koltner

You didn't mention noise figure, and that's important. At UHF and
above, atmospheric noise is typically very low, and you benefit from a
really low noise figure. In that case, you want to match the source
to the receiver input in such a way as to achieve the best noise
figure, which in general is NOT the same as getting maximum power
transfer into the receiver. Data sheets for parts intended as input
receiver amplifiers generally have a graph and/or table of optimal
source impedance for lowest noise figure versus frequency. Some will

have noise contours on a graph for some critical frequency or frequencies.

At HF, atmospheric noise is generally very high, and you also have to put up typically with some very large signals. So the design of the receiver input is driven by different needs. You want to keep distortion low, to avoid problems from those large signals, and you want to achieve a "reasonable" noise figure -- but reasonable might well be 15dB, an absolutely terrible noise figure for a 440MHz receiver front end. And you might well put in a pad you can switch in to lower distortion, and out for better noise figure.

Also, in some cases such as a car radio, the antenna impedance isn't anything close to 50 ohms (for the AM broadcast band). The design there would of course be different than if you were dealing with a 50 ohm source.

Cheers,
Tom

1672. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 19:41:26 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD2440F42981nonenowhere@61.9.191.5>
Source record: 16996

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote in
news:QoQvl.13889$8_3.3071@flpi147.ffdc.sbc.com:

...
> Why would NEC reduce a TL two-port to a lumped load? Two-port
> parameters can handle transmission line problems quite well without
> the simplifying assumption that all components are of zero length.

Hi Tom,

I expect that NEC does model the propagation delay from end to end on a transmission line. My comment was that NEC reduces a s/c TL stub to a lumped load for the stub input end which is inserted in the vertical.

The problem here perhaps is our viewing the phasing section as a s/c stub of two wire line, when perhaps is it better described as a single wire TL of a half wave length.

With that thought in mind, I have constructed a model where the phasing section is configured in a double triangular shape, but with the same conductor length, and NEC suggests in-phase currents. In fact, it has slightly better pattern symmetry than a).

```
CM
CE
GW 1 15 0 0 0 0 0 5 0.0005
GW 5 30 0 0 5.1 0 0 15 0.0005
GW 10 7 0 0 5 1.47 0 5. 0.0005
GW 11 10 1.47 0 5. 0 1.47 5. 0.0005
GW 12 15 0 1.47 5. 0 -1.47 5.1 0.0005
GW 13 7 0 -1.47 5.1 -1.47 0 5.1 0.0005
GW 14 15 -1.47 0 5.1 0 0 5.1 0.0005
GE 1
GN 1
EK
EX 0 1 1 0 1.0 0
FR 0 0 0 0 15 0
EN
```

Owen

1673. Re: Receiver antenna/amplifier matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 20:05:09 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <WnTvl.57138$9j5.41248@en-nntp-01.dc1.easynews.com>
Source record: 16997

Hi Tom,

That's a most informative post; thanks.

At work we have a design that uses these:
http://datasheets.maxim-ic.com/en/ds/MAX2371-MAX2373.pdf -- right after an antenna and a matching network. Too bad that Maxim didn't choose to provide any clues on what antenna impedance it would like to see for the lowest nose -- I just matched it to 50ohms. (And truth be told, we have a slightly wretched antenna to work with anyway... the main reason it's workable at all is due to the antenna designer -- and outside firm -- sticking a 160ohm resistor in parallel across the input leads.)

---Joel

1674. Re: Receiver antenna/amplifier matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 20:16:01 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD249ECB4C64nonenowhere@61.9.191.5>
Source record: 16998

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:tVQvl.65318$PS5.54384@en-nntp-07.dc1.easynews.com:

> Yet many designs for HF/shortwave antenna amplifiers don't bother with
> a matching network, just feeding the antenna directly into a FET. So
> why is this? Is the extra gain just not needed on HF? Or too
> unwiedly to build when you're trying to cover everything from
> 1MHz-30MHz?

Joel, you might hope that a good receiver provides some degree of band pass filtering prior to the RF amplifier for IMD protection.

For best receiver weak signal performance at SHF, you would usually match for optimum noise figure rather than best front end gain.

At HF, receiver internal noise is usually lower than ambient noise, so receiver NF is less an issue, but... intermodulation performance is very important. "Noise" can be created in the RF amp due to intermodulation distortion, so designs often focus on optimisation of IMD rather than NF directly, or front end gain. For example, I note that the TS2000 does not use a high performance signal FET for the HF RF amp, but uses a couple of power FETs.

The 144MHz case you mention is somewhere between the two, ambient noise in the city is usually much higher than a state of the art LNA, and often higher than a modern transceiver with a NF of 5dB. In my experience, IMD noise is a bigger issue on 144MHz than NF measurements made in a shielded room. A high gain amplifier with poor NF or high IMD noise delivers a high volume low S/N output from the receiver. (Try an IC706IIG on a discone antenna in the city.)

Owen

1675. Re: Receiver antenna/amplifier matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 20:45:55 UTC
From: dave <dave@dave.dave>
Message-ID: <49c00c04$0$31154$bd467cd0@news.dslextreme.com>
Source record: 16999

Joel Koltner wrote:

>
> Assume that I have a MMIC amplifier that has FET inputs and therefore has a
> high input impedance... let's say it's 500ohms.
>
I don't consider 500 Ohms to be "high impedance". I was taught that
MMICs were 50 Ohms in and out.

1676. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 21:10:24 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <f3665982-bd52-4957-820a-7a89bf495091@e5g2000vbe.googlegroups.com>
Source record: 17000

On Mar 17, 12:41 pm, Owen Duffy <n...@no.where> wrote:
> "Tom Donaly" <dtdon...@sbcglobal.net> wrote
innews:QoQvl.13889$8_3.3071@flpi147.ffdc.sbc.com:
>
> ...
>
> > Why would NEC reduce a TL two-port to a lumped load? Two-port
> > parameters can handle transmission line problems quite well without
> > the simplifying assumption that all components are of zero length.
>
> Hi Tom,
>
> I expect that NEC does model the propagation delay from end to end on a
> transmission line. My comment was that NEC reduces a s/c TL stub to a
> lumped load for the stub input end which is inserted in the vertical.
>
> The problem here perhaps is our viewing the phasing section as a s/c stub
> of two wire line, when perhaps is it better described as a single wire TL
> of a half wave length.
>
...

I'm not sure why you want to reduce it to something less complex than
it is. Transmission lines like this support both even and odd mode
propagation, I guess what we'd normally call "transmission line
currents" and "antenna currents." It seems perfectly OK to me to let
both exist on the line at the same time. It also seems to me there is
value in doing that, because I believe there's insight to be gained
from understanding how each of those currents contributes to the net
performance of the antenna. It's important that the stub be in the
field of the antenna so that antenna current is excited on it, and
it's also important that the stub be shorted a quarter wave away from
where it attaches to the collinear elements, so that the differential
transmission line currents do the right thing.

On the other hand, you may well discover some insights looking at it
in a different way, so I hope my comments won't discourage you from
doing that!

Cheers,
Tom

1677. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 21:37:31 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD257BE0B169nonenowhere@61.9.191.5>
Source record: 16901

K7ITM <k7itm@msn.com> wrote in
news:f3665982-bd52-4957-820a-7a89bf495091@e5g2000vbe.googlegroups.com:

> On Mar 17, 12:41 pm, Owen Duffy <n...@no.where> wrote:
>> "Tom Donaly" <dtdon...@sbcglobal.net> wrote
>> innews:QoQvl.13889$8_3.3071@f
> lpi147.ffdc.sbc.com:
>>
...
> On the other hand, you may well discover some insights looking at it
> in a different way, so I hope my comments won't discourage you from
> doing that!

My real objective is to model b) in NEC.

Trying to understand a) and to deconstruct it is part of an approach to finding a solution to b).

The 'stub' in a) cannot simply be replaced by a s/c TL element, so that suggests that a s/c TL element is not a solution for b) either.

The last configuration with the triangular / diamond configuration of the phasing line seems to work in an NEC model, and the deconstruction suggests that having a half wave of conductor is fundamental, and that it need not be in the form of a two wire TL.

I have also tried removing the 'stub' from a) and using a half wave TL to drive segments each side of the gap from each other. If the segments are close to, but not the last, this does produce a current distribution that is not 180 out of phase, but it does not produce the almost perfect in-phase outcome of modelling the wire structure. Nevertheless, playing with the length of that TL, being very close to half wave in length is essential to overriding the natural tendency to out of phase currents.

This hasn't solved the problem of modelling a coaxial configuration, expecially where the coaxial section was coax cable, apart from excluding some approaches as invalid.

Owen

1678. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 22:06:36 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <Xd2dnfbuwedvg13UnZ2dnUVZ_ryWnZ2d@posted.easystreetonline>
Source record: 16902

Owen Duffy wrote:
> K7ITM <k7itm@msn.com> wrote in
> news:9b11c6f7-d079-4c8b-b743-88f11d188d4c@d19g2000prh.googlegroups.com:
>
> ...
>> Yes--and then if they were exactly equal, would that not imply only
>> transmission line current on the stub? Obviously, they are exactly
>
> Thinking some more about it, my current thinking is that my analysis was
> flawed. I was using the standing wave currents, when I should be using
> the travelling wave components.
>
> I suspect that when NEC models the conductor arrangement at my fig a), it
> correctly accounts for propagation delay and the phase relationships
> compute correctly.
>
> If we replace the stub with a TL element, I suspect that NEC reduces the
> TL to a two port network and loads a segment of the vertical with an
> equivalent steady state impedance of the s/c stub network. If that is
> done, the reduction to a lumped load means that there is zero delay to
> travelling waves, and the computed currents (amplitude and phase) in the
> vertical will be incorrect. This means that you cannot replace a resonant
> stub with a high value of resistance, it doesn't work.
>
> If that is the case, it suggests that NEC cannot model such phasing
> schemes using TL elements.
>
> Owen

It's easy to reason yourself into traps by dividing currents into
"standing wave" and "traveling wave" components. They're different
things and don't add or superpose. Results of attempts to make this
differentiation can be seen in a vast number of postings on this forum
in the past.

Rather, I recommend considering a current to be a single value or, at
most, made of differential and common mode components which *can* be
added to obtain the total current.

In a steady state single frequency analysis, which is what NEC performs,
there is no such thing as delay. All time relationships can be expressed
as phase difference, which can't be tied to a unique delay -- you can't
even tell if the phase difference was due to time delay or magical
prescience-caused time lead. In a steady state analysis there is no way
to distinguish a half wave lossless transmission line from a 1-1/2 wave

line; they act exactly the same in all ways. So does a magical -1/2 wavelength line whose output appears a half cycle *before* the input appears. Only in a time-domain analysis will you be able to tell the difference. So yes, NEC models the transmission line as a two port network. It does force the correct voltage and current amplitude and phase relationships between the input and output. And it's indistinguishable in the steady state analysis from an ideal transmission line which effects the phase difference by means of delay. The NEC transmission line model is equivalent to a real (but lossless) transmission line on which the current is purely differential, e.g., a coax line with a large number of ferrite cores on the outside. The model is accurate within the constraints of a steady state analysis. If you're interested in looking at the effects of delay in a transient system, you'll need to use an analysis tool other than NEC. But if you let your transient analysis run until steady state is reached, the results will be the same as NEC.

Roy Lewallen, W7EL

1679. Re: Receiver antenna/amplifier matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 22:19:54 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <hmVvl.35258$UQ6.9391@en-nntp-03.dc1.easynews.com>
Source record: 16903

"dave" <dave@dave.dave> wrote in message
news:49c00c04$0$31154$bd467cd0@news.dslextreme.com...
> I don't consider 500 Ohms to be "high impedance".

Compared to 50 ohms it's high. :-) Granted, this is a bit subjective, but in my mind a "high impedance RF probe" is often 500 ohms (a 450 ohm resistor + the 50 ohm terminator in a scope"), and the implication is that it doesn't significantly load down whatever it is that you're probing.

(Note that a "1Mohm in parallel with 10pF" "high impedance" probe ends up being ~110ohm by the time you hit 144MHz...)

> I was taught that MMICs were 50 Ohms in and out.

True, most are reasonably close in the bands they were designed for. I probably shouldn't have said "MMIC amplifier" there -- just plain "amplifier."

1680. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 23:02:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <s_Vvl.24172$yr3.5271@nlpi068.nbdc.sbc.com>
Source record: 16904

Tom Donaly wrote:
> Cecil, if I ever have a dead horse on my hands, I won't let you
> near it because you'll beat it even deader.

The horse is alive and well - the nonsense that I quoted
is still on W8JI's web page.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1681. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-17 23:10:18 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <u5Wvl.24173$yr3.23213@nlpi068.nbdc.sbc.com>
Source record: 16905

Roy Lewallen wrote:
> If you're
> interested in looking at the effects of delay in a transient system,
> you'll need to use an analysis tool other than NEC. But if you let your
> transient analysis run until steady state is reached, the results will
> be the same as NEC.

But in NEC, if you load a transmission line with its
characteristic impedance, reflections are eliminated
and the delay along the wire is proportional to the
phase shift *even during steady-state*.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1682. Re: Receiver antenna/amplifier matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-18 00:54:44 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <77KdnTdj_-29pV3UnZ2dnUVZ_umWnZ2d@earthlink.com>
Source record: 16906

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:tVQvl.65318$PS5.54384@en-nntp-07.dc1.easynews.com...
> I'm trying to figure something out here...
>
> Assume that I have a 2m antenna that (through whatever means) happens to
> have an impedance in the ballpark of 50ohms. Also assume that this
> antenna will generate 1uV open-circuit.
>
> Assume that I have a MMIC amplifier that has FET inputs and therefore has
> a high input impedance... let's say it's 500ohms.
>
> If I directly connect the antenna to the amplifier, the amplifier input
> effectively sees ~0.909uV and then amplifies it.
>
> If I build a matching network to make the amplifier "appear" as 50ohms, at
> the input of the matcing network I'll have 0.5uV, but since energy has to
> be conserved (my matching network is assumed to be lossless),
> (0.5uV)^2/50=Vamp^2/500 --> Vamp=1.58uV. This is a gain of
> 20log(1.56/0.909)=4.8dB over a direct connection.
>
> Is that all correct?
>
> Now let's go down to HF. My antenna is still 50ohms, but at such low
> frequencies parasitics aren't that bad and I just use a JFET or MOSFET and
> have a 5kohm input impedance. In this case, without the matching network,
> the amplifier sees 0.99uV. With the matching network, it sees 5uV (!), a
> gain of 14.1dB over a direction connection.
>
> Yet many designs for HF/shortwave antenna amplifiers don't bother with a
> matching network, just feeding the antenna directly into a FET. So why is
> this? Is the extra gain just not needed on HF? Or too unwiedly to build
> when you're trying to cover everything from 1MHz-30MHz?
>
> Thanks for the help,
> ---Joel Koltner
>

Receiving antenna matching is the same as a transmitter loss, except in
reverse. As you said if you start with a 50 ohm antenna and transmission
line and feed it into a 500 ohm receiver you will have a 10:1 swr and the
additional loss of the transmission line will come into effect. If it is
very short , it will not mater too much . If the line is long it will.
Above around 140 mhz the noise is low enough you need to use a low loss line
of a very short length. The noise figure is most important. Usually there

is a mismatch when tuned for lowest noise figure. Short line , no problem, long or lossey line will cause much signal loss.

On the lower frequencies it usually does not mater too much what you do as the noise comming in from the antenna will usually be the major factor.

1683. Multiple yagis on one radio

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-18 01:25:27 UTC
From: Gary Smith <vkthree@gmail.com>
Message-ID: <gppii3$lg0$1@news-01.bur.connect.com.au>
Source record: 16907

Hi, i have an alinco dualband radio i want to set up as a link so i can access repeaters from the mobile as i have to travel around 100kms to get them in the car. Here is the scenario:

1. a 70cm verticle at the top of my tower
2. 3 or 4 2m yagi's also connected pointing towards the repeaters i want to access.
3. all these feed into a dualband alinco.
4. tx\rx on 70 from car to tower verticle
5.crossbands to selected repeater set on alinco on 2 metres.
6. repeater transmits, alinco picks it up and retransmits on 70cm to my car.

I can change channels remotely on the alinco from my car dtmf mic. VERY HANDY FEATURE. so i could be listening to repeater 1 and then punch in a code then another and change the alinco at home on the tower to go to repeater 2 etc.

It all works, but the one that is working just has a dualband verticle attached as it can "see" all the repeaters in it's area. It's about 250km form here so totally different terrain etc and i can't access it from here. i need yagi's because the repeaters i have access to are a LONG way from me so i need the gain. I can currently get them with my verticle but some are very flakey, dropping in and out all the time.

WILL THIS WORK?

IS IT POSSIBLE?

I know there would be much loss in connections etc. the rig would only be putting out around 20w otherwise it will cook itself.

I'm guessing i would need a diplexer to combine the 2m and 70cm antennas to the one ant socket on rig, and some power dividers for the 2m yagi's.

Get thinkin!!

Waiting for replies......

Thanks

Gary

1684. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-18 06:29:06 UTC
From: kb9rqz@yahoooo.com
Message-ID: <f551s4l16bujtrhj8r77mp8bnl4fu78spp@4ax.com>
Source record: 16908
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd

Chassel Mi

but the cowards asking lack the gut to act

1685. Re: Multiple yagis on one radio

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-18 17:34:03 UTC
From: JB <nospam@goofball.net>
Message-ID: <fgawl.945$SU3.319@nwrddc02.gnilink.net>
Source record: 16909

"Gary Smith" <vkthree@gmail.com> wrote in message
news:gppii3$lg0$1@news-01.bur.connect.com.au...
> Hi, i have an alinco dualband radio i want to set up as a link so i can
> access repeaters from the mobile as i have to travel around 100kms to
> get them in the car. Here is the scenario:
>
> 1. a 70cm verticle at the top of my tower
> 2. 3 or 4 2m yagi's also connected pointing towards the repeaters i want
> to access.
> 3. all these feed into a dualband alinco.
> 4. tx\rx on 70 from car to tower verticle
> 5.crossbands to selected repeater set on alinco on 2 metres.
> 6. repeater transmits, alinco picks it up and retransmits on 70cm to my
car.
>
> I can change channels remotely on the alinco from my car dtmf mic. VERY
> HANDY FEATURE. so i could be listening to repeater 1 and then punch in a
> code then another and change the alinco at home on the tower to go to
> repeater 2 etc.
>
> It all works, but the one that is working just has a dualband verticle
> attached as it can "see" all the repeaters in it's area. It's about
> 250km form here so totally different terrain etc and i can't access it
> from here. i need yagi's because the repeaters i have access to are a
> LONG way from me so i need the gain. I can currently get them with my
> verticle but some are very flakey, dropping in and out all the time.
>
>
> WILL THIS WORK?
>
> IS IT POSSIBLE?
>
> I know there would be much loss in connections etc. the rig would only
> be putting out around 20w otherwise it will cook itself.
>
> I'm guessing i would need a diplexer to combine the 2m and 70cm antennas
> to the one ant socket on rig, and some power dividers for the 2m yagi's.
>
> Get thinkin!!
>
> Waiting for replies......
>
> Thanks
>

> Gary

There are power dividers available (expensive) that maintain 50 ohms at all ports but you will probably lose 6db through that.

The Alinco will probably burn up even with both bands set to low power. The mobile package is only capable of giving off so much heat and depends low duty cycle. This is a problem with all mobiles as the design paradigm is for one person transmitting 1 min on and 3 min (or more) off. When operating as a repeater, EVERYONE TRANSMITS ALL THE TIME. There is no greater test of a continuous duty station than a bunch of hams.

Many years ago I thought this to be do-able with a DR-600 because of the sales brochure, and spent some time trying. One of the most aggravating problems was the DTMF decoder falsing and having no idea what was happening because of no telemetry. The radio would even change the control frequency because of that, leaving me totally out of control and in complete embarrassment.

I do have a FT-8500 in the car that acts as a "mobile extender" with my HT, but I don't feel confident enough to be more than a 2 minute walk away from the controls.

TX/RX on 70cm is best done with a real repeater with a remote/repeater controller system porting to your base station radio. It is legally required for you to be in control and you cant do that if the base is transmitting on 70cm instead of listening. And who identifies on 70cm?

Doing this successfully entails a long and expensive learning curve. I give you a leg up. I got started in the 70's. These days, usable repeater controllers can be had for under $150 and old Mastr2, Micor and other retired conventional continuous duty stations can be had for under $500. You can even get a rotor that can be macro programmed from the controller to turn to preset headings when channels are selected.

Get other locals to chip in and support the project.

1686. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-18 18:01:36 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gprcts$fp3$1@news.jpl.nasa.gov>
Source record: 16910

Jon Teske wrote:
>
> If you touch one note above that (B natural on the E string) the
> result is a not an octave and a fifth (or high B) above the
> fundamental frequency, because lightly stopping the B and causing
> it to vibrate on both side of the stop divides the string into thirds.
>

> Jon Teske, W3JT and concert violinist.

And this is why pianos are arranged to strike the string at a point which suppresses a harmonic which is dissonant. (I think it's the 7th harmonic which is suppressed)

The choice of where the hole you blow over in a flute has similar things going on. As do the locations of the holes on any wind instrument.

That musical instrument design thing is not as simple as it might seem in first year physics class.

1687. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-18 18:11:42 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gprdgqlku1@news.jpl.nasa.gov>
Source record: 16911

>> Mechanical impedance/reactance is a widely used idea in mechanical
>> and civil engineering. The dynamic motion of bridges and buildings
>> is sometimes even modelled using electronic circuit modelling tools
>> amongst other methods.
>
> I guess that is the thing they forgot to calculate, or didn't know
> how, on the infamous Takoma Narrows Bridge in Washington State which
> collapsed when cross winds cause wild vibrations.
>

That was an unexpected coupling between the force from the wind and torsional vibration of the roadbed. As the roadbed tilted, it "caught" more of the wind and had more force applied, moving it further. The torsional resonance was such that it oscillated with ever greater amplitude (not much different than a flag flapping, or a blade of grass in the wind.. not quite like a wind instrument reed, though)

As for whether it could have been anticipated? I don't know that modeling was that advanced back then (1930s). The bridge was an architectural feat, with a very delicate looking thin roadbed and much longer than most other bridges (3rd longest when it was built, some 1500 feet longer than the Golden Gate, for instance). It was much longer and thinner as compared to other suspension bridges of the time which were double decked, (SF Oakland Bay Bridge) for instance.. making them torsionally much stiffer). Interestingly, the designer of Tacoma Narrows (Moisseiff) was also involved in the Golden Gate.

1688. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-18 22:23:16 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gprooe$i0s$1@news.service.uci.edu>
Source record: 16912

Cecil Moore wrote:
> Owen Duffy wrote:
>> Thinking some more about it, my current thinking is that my analysis
>> was flawed. I was using the standing wave currents, when I should be
>> using the travelling wave components.
>
> That's exactly the flaw committed by w8ji and w7el when
> they tried to measure the delay through a 75m loading
> coil using standing wave current which doesn't appreciably
> change phase through a loading coil or through the entire
> 90 degree length of a monopole. Using standing wave
> current, w8ji measured a 3 nS delay through a 10 inch
> long coil, a VF of 0.27.
>
> http://www.w8ji.com/inductor_current_time_delay.htm
>
> W7EL reported: "I found that the difference in current
> between input and output of the inductor was 3.1% in
> magnitude and with *no measurable phase shift*, despite
> the short antenna... The result from the second test was
> a current difference of 5.4%, again with *no measurable
> phase shift*."
>
> Of course, phase shift is not measurable when one is
> using standing wave current with its almost unchanging
> phase. EZNEC supports that assertion. Bench measurements
> support that assertion.
>
> When traveling waves are used to measure the delay through
> a 75m loading coil, the correct delay through w8ji's 10
> inch coil turns out to be about 26 nS (~37 degrees) at 4 MHz
> with a more believable VF of 0.033.
>
> http://www.w5dxp.com/current2.htm

I agree that electromagnetic traveling waves are the kinds of waves that propagate on and cause radiation to emanate from an antenna. But your claims about 'standing waves not changing phase along the antenna' provoke the following questions:

1.) what relation (if any) do you believe the wavelength of the standing wave has to the wavelength of the radio frequency waves traveling on an antenna? And,

2.) what relation (if any) does the phase of a sinusoidal wave have to its amplitude?

73, ac6xg

1689. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 00:17:14 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gps2uacri1@news.jpl.nasa.gov>
Source record: 16914

Richard Clark wrote:
> On Wed, 18 Mar 2009 11:11:42 -0700, Jim Lux <james.p.lux@jpl.nasa.gov>
> wrote:
>
>>> I guess that is the thing they forgot to calculate, or didn't know
>>> how, on the infamous Takoma Narrows Bridge in Washington State which
>>> collapsed when cross winds cause wild vibrations.
>>>
>> That was an unexpected coupling between the force from the wind and
>> torsional vibration of the roadbed. As the roadbed tilted, it "caught"
>> more of the wind and had more force applied, moving it further. The
>> torsional resonance was such that it oscillated with ever greater
>> amplitude (not much different than a flag flapping, or a blade of grass
>> in the wind.. not quite like a wind instrument reed, though)
>
> In fact, it was exactly like a reed. The Tacoma Narrows Bridge
> exhibited the highest roadbed length to roadbed width ratio of the
> designs of that era, and this was a contributing factor.

Reeds don't oscillate torsionally (at least not as the dominant mode)
They're more of a fixed/free beam that oscillates in longitudinal bending.

>
>> The bridge was an
>> architectural feat, with a very delicate looking thin roadbed and much
>> longer than most other bridges (3rd longest when it was built, some 1500
>> feet longer than the Golden Gate, for instance).
>
> You can't be third in the list to the GGB and longer both unless you
> are speaking of the insignificance of approaches.

The GGB is shorter than the TNB. It was third on the list on July 1,
1940 according to Wa DoT. (Verrazano narrows was built in 1964) George
Washington was built in 31 and was 3500 ft, and was longest until 37,
when GGB was built in 37.

TNB was 5939 ft long (per Washington state DOT). GGB is 4200 ft
(wikipedia gives 5000 ft for the length of the TNB)

T
>
> Moisseiff was also the weak link for both the Narrows bridge and the
> GGB closure due to high winds in 1950. He underestimated the dynamic
> wind load. Ellis was the inventor of the math, but not a chief
> project engineer. In the field of bridge engineering, and especially
> for the GGB, there were a lot of Prima Donnas - Strauss the first of

> firsts. Moisseiff, by some accounts, appears to have been used as a
> resource rather than a principle engineer in the Narrows bridge
> construction. The bridge owners conspired to a lot of monkey shines
> in cost-cutting choices which turned out to be fatal. They eliminated
> the cross bracing from the bridge towers, above and below the roadbed;
> and they dispensed with the roadbed stiffening truss.
>
> Moisseiff, along with GGB designers Ammann and Cone, was appointed to
> the review board to study why the bridge failed - that was doomed to
> failure, too, by the bridge owners (who had their own insurance
> problems because they declined to find an outside insurer and decided
> to carry the risk themselves). The story of the back room feuding and
> remarkable Reaganomic theories are case lessons in planned disaster.

Interesting.

1690. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 00:30:33 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <3a03s4hs87tnac0ojih141vp5erv694ogt@4ax.com>
Source record: 16913

On Wed, 18 Mar 2009 11:11:42 -0700, Jim Lux <james.p.lux@jpl.nasa.gov>
wrote:

>> I guess that is the thing they forgot to calculate, or didn't know
>> how, on the infamous Takoma Narrows Bridge in Washington State which
>> collapsed when cross winds cause wild vibrations.
>>
>
>That was an unexpected coupling between the force from the wind and
>torsional vibration of the roadbed. As the roadbed tilted, it "caught"
>more of the wind and had more force applied, moving it further. The
>torsional resonance was such that it oscillated with ever greater
>amplitude (not much different than a flag flapping, or a blade of grass
>in the wind.. not quite like a wind instrument reed, though)

In fact, it was exactly like a reed. The Tacoma Narrows Bridge
exhibited the highest roadbed length to roadbed width ratio of the
designs of that era, and this was a contributing factor.

>As for whether it could have been anticipated? I don't know that
>modeling was that advanced back then (1930s).

Charles Ellis (an engineer for the GGB) is the inventor of the math
behind the modern suspension bridge. He developed 33 equations
embracing from 6 to 30 variable to account for shape, structure,
temperature, winds, and stress that were due to both dead and live
loads. The GGB was designed for a wind load of 30 pounds per square
foot at the roadbed and 50 pounds per square foot on the towers. The
thirty pound spec is equivalent to a hurricane, the GGB typically sees
only 10 pounds per square foot for 50MPH winds.

Under the wind load designed to, the towers would bend five inches
(they swayed free, unstressed, 12 feet during construction and an
earthquake).

Basically, Ellis designed the GGB to the sum of all probable stresses,
not their average, not their RMS. The only thing missing was harmonic
amplification. The GGB was closed due to wind in 1950 and later
retrofitted with 5,000 tons of cross bracing (as was the replacement
Narrows bridge).

>The bridge was an
>architectural feat, with a very delicate looking thin roadbed and much
>longer than most other bridges (3rd longest when it was built, some 1500
>feet longer than the Golden Gate, for instance).

You can't be third in the list to the GGB and longer both unless you are speaking of the insignificance of approaches. The Verezzano span (designed by GGB engineer Ammann) is only 60 feet longer but carrying much more weight.

>It was much longer and
>thinner as compared to other suspension bridges of the time which were
>double decked, (SF Oakland Bay Bridge) for instance.. making them
>torsionally much stiffer). Interestingly, the designer of Tacoma

More the legacy of (GGB engineer) Russell Cone's assistants.

>Narrows (Moisseiff) was also involved in the Golden Gate.

Moisseiff was also the weak link for both the Narrows bridge and the GGB closure due to high winds in 1950. He underestimated the dynamic wind load. Ellis was the inventor of the math, but not a chief project engineer. In the field of bridge engineering, and especially for the GGB, there were a lot of Prima Donnas - Strauss the first of firsts. Moisseiff, by some accounts, appears to have been used as a resource rather than a principle engineer in the Narrows bridge construction. The bridge owners conspired to a lot of monkey shines in cost-cutting choices which turned out to be fatal. They eliminated the cross bracing from the bridge towers, above and below the roadbed; and they dispensed with the roadbed stiffening truss.

Moisseiff, along with GGB designers Ammann and Cone, was appointed to the review board to study why the bridge failed - that was doomed to failure, too, by the bridge owners (who had their own insurance problems because they declined to find an outside insurer and decided to carry the risk themselves). The story of the back room feuding and remarkable Reaganomic theories are case lessons in planned disaster.

73's
Richard Clark, KB7QHC

1691. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 05:56:22 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5bm3s4d1v6dg9m3aablhd9e8k9251eml25@4ax.com>
Source record: 16915

On Wed, 18 Mar 2009 17:17:14 -0700, Jim Lux <james.p.lux@jpl.nasa.gov>
wrote:
>Reeds don't oscillate torsionally (at least not as the dominant mode)
>They're more of a fixed/free beam that oscillates in longitudinal bending.

And yet the failure mode I've most seen with them is splitting.
Perhaps this only reveals a limited experience of their failure.

>>> The bridge was an
>>> architectural feat, with a very delicate looking thin roadbed and much
>>> longer than most other bridges (3rd longest when it was built, some 1500
>>> feet longer than the Golden Gate, for instance).
>>
>> You can't be third in the list to the GGB and longer both unless you
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>1940 according to Wa DoT. (Verrazano narrows was built in 1964) George
>Washington was built in 31 and was 3500 ft, and was longest until 37,
>when GGB was built in 37.
>
>TNB was 5939 ft long (per Washington state DOT). GGB is 4200 ft
>(wikipedia gives 5000 ft for the length of the TNB)

You have inadvertently summed in ordinary approaches. We have freeway
interchanges with more complexity. Bridge span is the significant
indicator of interest. The GGB comes in at 4200 feet suspension span,
yes, the Narrows is much shorter at 2800 suspension span.

If push came to shove about overall length over water, we, here in
Seattle, have vastly larger bridges that float. The I-90 bridge logs
in at 6620 feet, and the 520 bridge pushes that to 7578 feet. Nearby,
we have the Hood Canal bridge that is longer at 7869 feet.

I've been across all five many, many, many times, and I used to live
halfway across the bay on the way to Oakland, by way of the Bay Bridge
in Frisco. The one suspension bridge I refused to drive across is SW
of Colorado Springs, over the Royal Gorge - the highest suspension
bridge (1053 above the river below). Just standing on the approach as
a car goes over gives you the shakes (talk about harmonic coupling).

73's
Richard Clark, KB7QHC

1692. Re: Multiple yagis on one radio

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 06:41:32 UTC
From: Gary Smith <vkthree@gmail.com>
Message-ID: <gpspes$8ej$1@news-01.bur.connect.com.au>
Source record: 16916

JB wrote:
> "Gary Smith" <vkthree@gmail.com> wrote in message
> news:gppii3$lg0$1@news-01.bur.connect.com.au...
>> Hi, i have an alinco dualband radio i want to set up as a link so i can
>> access repeaters from the mobile as i have to travel around 100kms to
>> get them in the car. Here is the scenario:
>>
>> 1. a 70cm verticle at the top of my tower
>> 2. 3 or 4 2m yagi's also connected pointing towards the repeaters i want
>> to access.
>> 3. all these feed into a dualband alinco.
>> 4. tx\rx on 70 from car to tower verticle
>> 5.crossbands to selected repeater set on alinco on 2 metres.
>> 6. repeater transmits, alinco picks it up and retransmits on 70cm to my
> car.
>> I can change channels remotely on the alinco from my car dtmf mic. VERY
>> HANDY FEATURE. so i could be listening to repeater 1 and then punch in a
>> code then another and change the alinco at home on the tower to go to
>> repeater 2 etc.
>>
>> It all works, but the one that is working just has a dualband verticle
>> attached as it can "see" all the repeaters in it's area. It's about
>> 250km form here so totally different terrain etc and i can't access it
>> from here. i need yagi's because the repeaters i have access to are a
>> LONG way from me so i need the gain. I can currently get them with my
>> verticle but some are very flakey, dropping in and out all the time.
>>
>>
>> WILL THIS WORK?
>>
>> IS IT POSSIBLE?
>>
>> I know there would be much loss in connections etc. the rig would only
>> be putting out around 20w otherwise it will cook itself.
>>
>> I'm guessing i would need a diplexer to combine the 2m and 70cm antennas
>> to the one ant socket on rig, and some power dividers for the 2m yagi's.
>>
>> Get thinkin!!
>>
>> Waiting for replies......
>>
>> Thanks
>>

>> Gary
>
> There are power dividers available (expensive) that maintain 50 ohms at all
> ports but you will probably lose 6db through that.
>
> The Alinco will probably burn up even with both bands set to low power. The
> mobile package is only capable of giving off so much heat and depends low
> duty cycle. This is a problem with all mobiles as the design paradigm is for
> one person transmitting 1 min on and 3 min (or more) off. When operating as
> a repeater, EVERYONE TRANSMITS ALL THE TIME. There is no greater test of a
> continuous duty station than a bunch of hams.
>
> Many years ago I thought this to be do-able with a DR-600 because of the
> sales brochure, and spent some time trying. One of the most aggravating
> problems was the DTMF decoder falsing and having no idea what was happening
> because of no telemetry. The radio would even change the control frequency
> because of that, leaving me totally out of control and in complete
> embarrassment.
>
> I do have a FT-8500 in the car that acts as a "mobile extender" with my HT,
> but I don't feel confident enough to be more than a 2 minute walk away from
> the controls.
>
> TX/RX on 70cm is best done with a real repeater with a remote/repeater
> controller system porting to your base station radio. It is legally
> required for you to be in control and you cant do that if the base is
> transmitting on 70cm instead of listening. And who identifies on 70cm?
>
> Doing this successfully entails a long and expensive learning curve. I give
> you a leg up. I got started in the 70's. These days, usable repeater
> controllers can be had for under $150 and old Mastr2, Micor and other
> retired conventional continuous duty stations can be had for under $500.
> You can even get a rotor that can be macro programmed from the controller to
> turn to preset headings when channels are selected.
>
> Get other locals to chip in and support the project.
>

All noted, thank's for the input.
I will have a look at some controllers.

As i mentioned, a fellow ham has one working. has had for a while. He
said they ran it at 30w and blew it up, it's now at 10 and seems to be
doing a good job. We both have DR-610 radio. as for "local" hams to chip
in, they are 100+km away from me so i would be the only one using it here.

Thanks, more to think about...

Gary

1693. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 10:44:53 UTC
From: wood@itd.nrl.navy.mil
Message-ID: <wood-1903090544540001@jbw-mac.itd.nrl.navy.mil>
Source record: 16917

In article <gprcts$fp3$1@news.jpl.nasa.gov>, Jim Lux
<james.p.lux@jpl.nasa.gov> wrote:

> Jon Teske wrote:
> >
> > If you touch one note above that (B natural on the E string) the
> > result is a not an octave and a fifth (or high B) above the
> > fundamental frequency, because lightly stopping the B and causing
> > it to vibrate on both side of the stop divides the string into thirds.
> >
>
> > Jon Teske, W3JT and concert violinist.
>
> And this is why pianos are arranged to strike the string at a point
> which suppresses a harmonic which is dissonant. (I think it's the 7th
> harmonic which is suppressed)
>

Hello, and acoustic dissonance is defined by the production of
"unacceptable" beats between the partials (overtones (harmonics)) that
can, but are not generally, exact multiples of the fundamental) generated
by two or more fundamentals. Dissonance can also be defined when two
fundamentals are in close proximity as to produce a kind of "roughness".
Dissonance has no relevance for one fundamental (and its partials). It is
the partials that give a pitch on a particular instrument its quality or
timbre.

There is also a "contextual" dissonance associated with particular
intervals/ chord structures in Western classical music that, due to
accepted practice in a particular era, in many cases bears no relation to
the acoustic dissonance (sounding the chord in isolation (out of
context)). If you want more enlightenment in this area pop on over to
rec.music.theory or rec.music.makers.piano. Sincerely, and 73s from
N4GGO,

John Wood (Code 5550) e-mail: wood@itd.nrl.navy.mil
Naval Research Laboratory
4555 Overlook Avenue, SW
Washington, DC 20375-5337

1694. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 15:09:14 UTC
From: kb9rqz <mmorganqz@yahoo.com>
Message-ID: <49c26020$0$3337$6e1ede2f@read.cnntp.org>
Source record: 16918
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.antenna

<kb9rqz@yahoooo.com> wrote in message
news:f551s4l16bujtrhj8r77mp8bnl4fu78spp@4ax.com...
> On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
> <assemblywizard@gmail.com> wrote:
>
>>K4YZ wrote:
>>> Nope.
>>>
>>> The IP Address and servers are complete proof that I do NOT share
>>> any annonymous character's "address".
>>>
>>> Sounds like Lennie, to me....
>>>
>>> Steve, K4YZ
>>>
>>
>>To anyone with even an elementary understanding of anonymous proxies,
>>anonymous remailers, zombie backdoors, etc., the ability to change ones
>>IP address and header details is simplistic, indeed, with little time
>>spent anyone can appear to be "coming" from anywhere in the world.
>>
>>You waste my time. Worse, you think us all idiots here. You remind me
>>of the "street smart" prosecutors and defense attorneys who stack jurys
>>with members of little or no technical knowledge and then call in
>>"expert witnesses" and propose arguments of technical details to boggle
>>their minds.
>>
>>You have only proven that you, yourself are either ignorant to such
>>technical details, or else you are indeed street smart, I favor the
>>latter in this case (however, if you in the dark about such things, 15
>>minutes on google will enlighten you.)
>>
>>JS
>
> "one useless man is disgrace 2 become a law firm 3 or more become a
> congress"
> adams
>
> woger you are a Congress all in your own head
>
> <img
> src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting
> by 3iX" width="194" height="101" border="0">

>
> altopia is never used by KB9RQZ
> nor is Konstans@hotmail.com ever
> btw i can be found at
> 17366 N River Rd
> Chassel Mi
>
> but the cowards asking lack the gut to act
>
with teh punce gotcha he wonder why i simple

1695. Re: Multiple yagis on one radio

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 15:51:37 UTC
From: JB <nospam@goofball.net>
Message-ID: <dStwl.1137$SU3.165@nwrddc02.gnilink.net>
Source record: 16919

>
> All noted, thank's for the input.
> I will have a look at some controllers.
>
> As i mentioned, a fellow ham has one working. has had for a while. He
> said they ran it at 30w and blew it up, it's now at 10 and seems to be
> doing a good job. We both have DR-610 radio. as for "local" hams to chip
> in, they are 100+km away from me so i would be the only one using it here.
>

The other part of the story with the DR600, it had multiple problems from day 1 and I dropped it off several times at the depot and they could never fix it under warranty even when I told the tech what was wrong with it. Can't blame the tech, because the salesman in charge of the operation told me "I should have bought a new one". I took his advice and took it back to HRO for a refund and bought a Yaesu (built in fan). The main problem was bad RX vco that would run amok when it got warm. It seemed there were no repair parts, just abandoned radios that the tech would swap boards with. The last straw was when I got it home and put it on a spectrum analyzer and it was severely spurious - Not the original problem. I have a photo of that, and I should put it up and send a link. Looked like a comb across 10 MHz.

All I can tell you is Use CTCSS on both bands and use the lowest power setting especially on the UHF link tx because it will play all the time if you are in a roundtable or net and it wont allow the chassis to cool down even at low power. Use a FAN and cross your fingers. The fins can be COLD and the power block is too hot because the chassis cant get the heat out to the fins fast enough. Setting the TOT to 30 sec. will help save the radio but it will be a big nuisance. About all you can do is save it for check ins and short contacts.

This is a regular problem with mobile die-cast chassis from all manufacturers. Customers would take low bid for Motorola Maxtrac or Radius repeaters after seeing them in brochures saying "50 watts", so we would have to give them "50 watts" even though 10 was more reasonable. We would see them back in within a month for a $500 rebuild. Icoms, Vertex, Kenwoods... All the same problems. If the customer says anything more than "10-4" or "2150 bye" the transmitter goes up in smoke. Then we remind them of the specification in the fine print that says 15% duty cycle rated and inform them if someone talks on the radio for 1 minute they have to wait 5 minutes to cool down and if they use it more often than that - they need to upgrade. Tough luck for the other brands because they couldn't upgrade, only turn the power down. If you did that they could sue for false advertising or go buy a cell phone instead.

http://infotech.awardspace.com/

1696. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 18:37:56 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <7iwwl.20839$YU2.18212@nlpi066.nbdc.sbc.com>
Source record: 16920

Jim Kelley wrote:
> I agree that electromagnetic traveling waves are the kinds of waves
that propagate on and cause radiation to emanate from an antenna. But
your claims about 'standing waves not changing phase along the antenna' ...

Jim, I thought you have EZNEC. Here are the currents at all of
the segments along a 20m dipole with 21 segments from end to end.
Please note that in a dipole that is 180 degrees long, the phase
of the (mostly standing-wave) current varies by less than 3 degrees.
How can the current in a 180 degree antenna vary by less than 3 degrees?

Quoting my web page: "Standing wave current cannot be used to directly
measure either a valid amplitude change or a valid phase shift through
a loading coil. All of the reported conclusions based on loading coil
measurements using standing-wave current on standing-wave antennas are
conceptually flawed." Owen had an epiphany of a sort when he realized
that fact of physics.

20m dipole 3/18/2009 5:28:50 PM

--------------- CURRENT DATA ---------------

Frequency = 14.2 MHz

Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Open .0836 -2.75
2 .23595 -2.57
3 .37707 -2.38
4 .50791 -2.17
5 .62692 -1.95
6 .73226 -1.71
7 .82218 -1.44
8 .89511 -1.13
9 .94979 -0.78
10 .98539 -0.37
11 1 0.00
12 .98539 -0.37
13 .94979 -0.78
14 .89511 -1.13
15 .82218 -1.44
16 .73226 -1.71
17 .62691 -1.95
18 .50791 -2.17
19 .37707 -2.38
20 .23595 -2.57

21 Open .0836 -2.75
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

P.S. I posted this reply but it didn't show up on my server.
I apologize if it is a duplicate.

1697. Re: The dipole and the violin

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 19:50:18 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a0369018-4314-4538-85f7-4e2fe8d37c24@o11g2000yql.googlegroups.com>
Source record: 16921

On Mar 19, 5:44 am, w...@itd.nrl.navy.mil (J. B. Wood) wrote:
> In article <gprcts$fp...@news.jpl.nasa.gov>, Jim Lux
>
> <james.p....@jpl.nasa.gov> wrote:
> > Jon Teske wrote:
>
> > > If you touch one note above that (B natural on the E string) the
> > > result is a not an octave and a fifth (or high B) above the
> > > fundamental frequency, because lightly stopping the B and causing
> > > it to vibrate on both side of the stop divides the string into thirds.
>
> > > Jon Teske, W3JT and concert violinist.
>
> > And this is why pianos are arranged to strike the string at a point
> > which suppresses a harmonic which is dissonant. (I think it's the 7th
> > harmonic which is suppressed)
>
> Hello, and acoustic dissonance is defined by the production of
> "unacceptable" beats between the partials (overtones (harmonics)) that
> can, but are not generally, exact multiples of the fundamental) generated
> by two or more fundamentals. Dissonance can also be defined when two
> fundamentals are in close proximity as to produce a kind of "roughness".
> Dissonance has no relevance for one fundamental (and its partials). It is
> the partials that give a pitch on a particular instrument its quality or
> timbre.
>
> There is also a "contextual" dissonance associated with particular
> intervals/ chord structures in Western classical music that, due to
> accepted practice in a particular era, in many cases bears no relation to
> the acoustic dissonance (sounding the chord in isolation (out of
> context)). If you want more enlightenment in this area pop on over to
> rec.music.theory or rec.music.makers.piano. Sincerely, and 73s from
> N4GGO,
>
> John Wood (Code 5550)   e-mail: w...@itd.nrl.navy.mil
> Naval Research Laboratory
> 4555 Overlook Avenue, SW
> Washington, DC 20375-5337

Hmm, I seem to differ tho I am not a player of violins
With respect to the movement of violin wires and physics
ALL vibrations of a lever or wire is three dimensional unless the ends
are secured encastre where it is damped to a two dimensional swing. An
example is a pendulum where the lever or "bob" is of a short distance

as with a clock where the "hinge" restricts oscillation to two dimensions. In the case of a pendulum such as seen in certain museums that are pivoted some 100 feet or more high the oscillations take up a three dimensional pattern such that it takes many many oscillations before it can arrive at its starting point. The same analogy can be applied to a radiator or antenna or any other oscillation as it follows the same action of a tank circuit which is universal in the sciences of nature ie the standard model and the conservation of energy format.

1698. Re: an ontopic post about code

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 19:59:15 UTC
From: kb9rqz@yahoooo.com
Message-ID: <g095s4hg2rt1jdbsnu3dage4qtub7t9kmk@4ax.com>
Source record: 16922
Cross-posted to: alt.ham-radio.vhf-uhf,rec.radio.amateur.policy,rec.radio.amateur.antenna

On Fri, 01 Dec 2006 09:36:47 -0800, John Smith
<assemblywizard@gmail.com> wrote:

>K4YZ wrote:
>> Nope.
>>
>> The IP Address and servers are complete proof that I do NOT share
>> any annonymous character's "address".
>>
>> Sounds like Lennie, to me....
>>
>> Steve, K4YZ
>>
>
>To anyone with even an elementary understanding of anonymous proxies,
>anonymous remailers, zombie backdoors, etc., the ability to change ones
>IP address and header details is simplistic, indeed, with little time
>spent anyone can appear to be "coming" from anywhere in the world.
>
>You waste my time. Worse, you think us all idiots here. You remind me
>of the "street smart" prosecutors and defense attorneys who stack jurys
>with members of little or no technical knowledge and then call in
>"expert witnesses" and propose arguments of technical details to boggle
>their minds.
>
>You have only proven that you, yourself are either ignorant to such
>technical details, or else you are indeed street smart, I favor the
>latter in this case (however, if you in the dark about such things, 15
>minutes on google will enlighten you.)
>
>JS

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd

Chassel Mi

but the cowards asking lack the gut to act

1699. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 22:02:33 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gpubtn$b2g$1@news.service.uci.edu>
Source record: 16923

Cecil Moore wrote:
> Jim Kelley wrote:
> > I agree that electromagnetic traveling waves are the kinds of waves
> that propagate on and cause radiation to emanate from an antenna. But
> your claims about 'standing waves not changing phase along the antenna'
> ...
>
> Jim, I thought you have EZNEC.
> Here are the currents at all of
> the segments along a 20m dipole with 21 segments from end to end.
> Please note that in a dipole that is 180 degrees long, the phase
> of the (mostly standing-wave) current varies by less than 3 degrees.
> How can the current in a 180 degree antenna vary by less than 3 degrees?

It seems to me that computers are completely stupid about certain
things. Could it be a case of garbage in, garbage out?

> Quoting my web page: "Standing wave current cannot be used to directly
> measure either a valid amplitude change or a valid phase shift through
> a loading coil. All of the reported conclusions based on loading coil
> measurements using standing-wave current on standing-wave antennas are
> conceptually flawed."

And what more authoritative reference could someone cite than their own
web page? :-)

I've never actually known what it was that made you believe Roy had
measured standing wave current - whatever that means. Or, how his
measurements compare with your own measurements of the phenomenon.

> Owen had an epiphany of a sort when he realized
> that fact of physics.

It may not even be as elusive a fact as one is given to believe around here.

73, ac6xg

> 20m dipole 3/18/2009 5:28:50 PM
>
> --------------- CURRENT DATA ---------------
>
> Frequency = 14.2 MHz
>
> Wire No. 1:
> Segment Conn Magnitude (A.) Phase (Deg.)
> 1 Open .0836 -2.75
> 2 .23595 -2.57

> 3 .37707 -2.38
> 4 .50791 -2.17
> 5 .62692 -1.95
> 6 .73226 -1.71
> 7 .82218 -1.44
> 8 .89511 -1.13
> 9 .94979 -0.78
> 10 .98539 -0.37
> 11 1 0.00
> 12 .98539 -0.37
> 13 .94979 -0.78
> 14 .89511 -1.13
> 15 .82218 -1.44
> 16 .73226 -1.71
> 17 .62691 -1.95
> 18 .50791 -2.17
> 19 .37707 -2.38
> 20 .23595 -2.57
> 21 Open .0836 -2.75

1700. He even looks like a faggot! lol! Mopeyfaggot outed!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-19 23:53:37 UTC
From: KD8IMG is a 2 time convicted stalker of women <mopezakween@yahoo.com>
Message-ID: <9b671902-f488-46a5-af38-06cfd19d59df@q16g2000yqg.googlegroups.com>
Source record: 16924
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.scanner

http://www.medina-ohio.net/nairs/index.html

That dude is lusting for weenie, no doubt!

1701. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-20 02:16:45 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <g0Dwl.2364$im1.1204@nlpi061.nbdc.sbc.com>
Source record: 16925

Jim Kelley wrote:
> I've never actually known what it was that made you believe Roy had
> measured standing wave current - whatever that means.

Good Grief! Could it be that a monopole is a "STANDING WAVE ANTENNA"?
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1702. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-20 05:27:01 UTC
From: dloydlavies@hotmail.com
Message-ID: <19a6s4l5krsdj5hp7feuaps9n7hvi3nso3@4ax.com>
Source record: 16926
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Tue, 17 Feb 2009 19:00:55 -0500, k3vr@hotmail.com wrote:

>On Tue, 17 Feb 2009 15:24:59 -0800 (PST), mopeyzakween@yahoo.com
>wrote:
>
>>On Feb 13, 10:23ï¿½pm, Steve <moparho...@hotmail.com> wrote:
>>> Barely fuzzy.
>>>
>>> --
>>> ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½ ï¿½http://NewsReader.Com/
>>
>>who cares, punk? go die of cancer so deep in your guts the nurses have
>>to put in earplugs to handle the screaming. Let me know when you get
>>it so I can come to the hospital and make fun of you.
>
>please grow up and get a life

1703. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-20 05:27:09 UTC
From: k3vr@hotmail.com
Message-ID: <89a6s4hndskr88p7p7r2f0g7vuce1d770n@4ax.com>
Source record: 16927
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.policy,rec.radio.cb

On Tue, 17 Feb 2009 19:12:21 -0800 (PST), k3vr <k3vr@ymail.com> wrote:

>On Feb 17, 2:03ï¿½pm, mopeyzakw...@yahoo.com wrote:
>> On Feb 17, 1:57ï¿½pm, k...@hotmail.com wrote:
>>
>> > On Tue, 17 Feb 2009 05:29:34 -0800 (PST), mopeyzakw...@yahoo.com
>> > wrote:
>>
>> > >On Feb 16, 5:29ï¿½am, "kd8ctl" <anon@anon> wrote:
>> > >> You Hams seem to be very mean sprited toward my husband, Mark.
>> > >the entire thread here, every single post but this one, was fabricated
>> > >by moparholic at hotmail dot com
>>
>> > no it wasn't but you are too OCD to accept reality anymore
>>
>> didn't you die of deep bowel cancer yet? damn.
>
>poor hate filled sicko

1704. Re: get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-20 05:27:28 UTC
From: dloydlavies@hotmail.com
Message-ID: <p9a6s45250jotl5o6viifk4i1kih1n764q@4ax.com>
Source record: 16928
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

On Thu, 19 Feb 2009 19:42:21 -0500, k3vr@hotmail.com wrote:

>On Thu, 19 Feb 2009 15:56:39 -0800 (PST), mopeyzakween@yahoo.com
>wrote:
>
>>You did it, bobbie, now sit and suck on it.....
>
>grow up man if you can

1705. ghet help

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-20 05:30:42 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <d141142f-9b91-4dbe-96b6-1dbe93c68ee9@g38g2000yqd.googlegroups.com>
Source record: 16929
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.scanner

On Mar 19, 7:53 pm, <mopezakw...@yahoo.com> wrote:
>
get a life

1706. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-20 15:28:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <RzOwl.3928$Lr6.1727@flpi143.ffdc.sbc.com>
Source record: 16930

Cecil Moore wrote:
> Could it be that a monopole is a "STANDING WAVE ANTENNA"?

Here's an EZNEC simulation of a 1/4WL monopole. It is
a 1/4WL stub with the wire resistivity adjusted to
simulate monopole radiation. The standing wave current
distribution (lack of phase) and feedpoint resistance
are similar to a monopole.

http://www.w5dxp.com/stub_dip.EZ

Add a short at the top and a load of 600 ohms in the
shorted segment and observe the traveling wave.

http://www.w5dxp.com/stubsht.EZ

Turn on the current phase display and observe the
traveling wave phase shift.
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1707. Re: ghet help

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-20 16:19:04 UTC
From: cuhulin@webtv.net
Message-ID: <7430-49C3C1F8-43@storefull-3171.bay.webtv.net>
Source record: 16931

I Lust for them Lusty wimmins.
cuhulin

1708. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 01:35:02 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gq1cnt$7uv$1@news.service.uci.edu>
Source record: 16932

Cecil Moore wrote:

> Could it be that a monopole is a "STANDING WAVE ANTENNA"?

The supposition is true, so the intended implication must be that only standing wave current can be measured on monopole antennas. And Roy therefore would have to have measured standing wave current (whatever that is).

I must decline to agree. :-)

73, ac6xg

1709. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 02:37:09 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <glk8s4pqt29hqhac2cjcc3diqgcl770g0g@4ax.com>
Source record: 16933

On Fri, 20 Mar 2009 17:35:02 -0800, Jim Kelley <jwkelley@uci.edu>
wrote:

>I must decline to agree. :-)

Couldn't you incline to disagree?

73's
Richard Clark, KB7QHC

1710. Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 02:46:53 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <yyYwl.71674$PS5.37714@en-nntp-07.dc1.easynews.com>
Source record: 16934

Here something I've been thinking about lately...

The idea of a noise figure N is, simply enough, how much loss in SNR is seen going through a network (typically an amplifier) -- N = (Si/Ni)/(So/No), expressed in dB. Say I have an antenna that I know happens to provide an SNR of 60dB... if I feed that antenna into an amplifier with a power gain of 100 (20dB) and a noise factor of 2 (3dB), at the output of the amplifier my SNR will be 57dB. Easy peasy, right?

But here's an interesting paradox: If I take that output with 57dB SNR and feed it to another, identical amplifier, shouldn't the SNR at its output now drop to 54dB?

Of course, most people know the answer is "no," but it's not necessarily immediately obvious why this is.

The problem, to quote Wes Hayward, is that "the noise figure concept has the drawback that it depends upon definition of a standard temperature, usually 290K." In other words, the SNR at the output of an amplifier degrades by the noise figure *only if one can assume that the noise level going into the amplifier is equivalent to kTB*, where T is usually taken to be 290K (...by the guy who built the amplifier).

This assumption isn't correct in the two cascaded amplifier case. Indeed, since the first amplifier has a gain of 20dB, in 1Hz the noise power coming out of the amplifier is -174+20+3 = -154dBm. This is equivalent to a noise temperature of 57533K! From this vantage point it's pretty obvious that an amplifier with a noise figure of 3dB -- corresponding to noise temperature of 290K -- will have negligible impact on the overall noise output. (If you run through the numbers, the SNR at the output of the cascaded amplifiers is 56.94dB.)

Personally, I think that using noise temperatures tends to be "safer" than using noise figures, as the later can easily lead one astray if you're not careful to make sure you know what the "standard temperature" used was. (After all, if someone just hands you a piece of coax and says, "there's a 60dB SNR signal on line, please amplify it by 20dB and insure that the output SNR is still >59dB," without more information there's no way to determine how good of an amplifier you need.) But I'd like to get other peoples' opinions on this subject... how do you think about noise figures and temperatures?

Input appreciated,
---Joel Koltner

1711. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 03:25:39 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD592C3B7829nonenowhere@61.9.191.5>
Source record: 16935

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:yyYwl.71674$PS5.37714@en-nntp-07.dc1.easynews.com:

> Here something I've been thinking about lately...
>
> The idea of a noise figure N is, simply enough, how much loss in SNR
> is seen going through a network (typically an amplifier) -- N =
> (Si/Ni)/(So/No), expressed in dB. Say I have an antenna that I know
> happens to provide an SNR of 60dB... if I feed that antenna into an
> amplifier with a power gain of 100 (20dB) and a noise factor of 2
> (3dB), at the output of the amplifier my SNR will be 57dB. Easy
> peasy, right?
>
> But here's an interesting paradox: If I take that output with 57dB SNR
> and feed it to another, identical amplifier, shouldn't the SNR at its
> output now drop to 54dB?
>

Appealing, but wrong.

The amplifier has an equivalent noise temperature (Teq) of 289K.

To determine the effect of two cascaded stages of the same amplifier, Teq
of the combination =T1+T2/G1=289+289/100=318K which corresponds to NF=
3.2dB

> Of course, most people know the answer is "no," but it's not
> necessarily immediately obvious why this is.
>
> The problem, to quote Wes Hayward, is that "the noise figure concept
> has the drawback that it depends upon definition of a standard
> temperature, usually 290K." In other words, the SNR at the output of
> an amplifier degrades by the noise figure *only if one can assume that
> the noise level going into the amplifier is equivalent to kTB*, where
> T is usually taken to be 290K (...by the guy who built the amplifier).

If you were testing the amplifier with a standard signal generator at
room temperature, the generator does suppy 290K of noise.

An real antenna might supply much less through to much much more noise.

>
> This assumption isn't correct in the two cascaded amplifier case.
> Indeed, since the first amplifier has a gain of 20dB, in 1Hz the noise
> power coming out of the amplifier is -174+20+3 = -154dBm. This is
> equivalent to a noise temperature of 57533K! From this vantage point
> it's pretty obvious that an amplifier with a noise figure of 3dB --

> corresponding to noise temperature of 290K -- will have negligible
> impact on the overall noise output. (If you run through the numbers,
> the SNR at the output of the cascaded amplifiers is 56.94dB.)

I get 60-3.2=56.8dB.

>
> Personally, I think that using noise temperatures tends to be "safer"
> than using noise figures, as the later can easily lead one astray if
> you're not careful to make sure you know what the "standard
> temperature" used was. (After all, if someone just hands you a piece
> of coax and says, "there's a 60dB SNR signal on line, please amplify
> it by 20dB and insure that the output SNR is still >59dB," without
> more information there's no way to determine how good of an amplifier
> you need.) But I'd like to get other peoples' opinions on this
> subject... how do you think about noise figures and temperatures?

It is not so much an issue of safer, is it use and mis-use, it is about how you use NF with cascaded stages. Essentially, you convert them to T, apply the gain effects, then T back to a NF for the combination. The equation looks ugly, but if you work in T, you can do it in your head... well until T becomes so large you want to use dBK.

You might find this little calculator interesting / helpful:
http://www.vk1od.net/calc/RxSensitivityCalc.htm .

Owen

1712. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 03:43:21 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD595C41EF3Bnonenowhere@61.9.191.5>
Source record: 16936

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:yyYwl.71674$PS5.37714@en-nntp-07.dc1.easynews.com:

> Here something I've been thinking about lately...
>
> The idea of a noise figure N is, simply enough, how much loss in SNR
> is seen going through a network (typically an amplifier) -- N =
> (Si/Ni)/(So/No), expressed in dB. Say I have an antenna that I know
> happens to provide an SNR of 60dB... if I feed that antenna into an

I meant to flag this statement.

Does it provide enough information for you to apply it in the way you
have?

It says nothing of the absolute noise power or signal power. You seem to
assume the noise power KTB noise where T is 290K.

What if you were pointing at directive antenna at cold sky, and Tnoise
was say 10K. (As a complication, no antenna is perfect, and there would
also be some spillover noise from the hot earth, but the total might be
well under 100K.)

Alternatively, what if you were talking about a HF antenna and say Tnoise
was say, 30000K.

Owen

1713. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 09:23:24 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <u125$fEMILxJFARQ@ifwtech.co.uk>
Source record: 16937

Joel Koltner wrote:
>Here something I've been thinking about lately...
>
>The idea of a noise figure N is, simply enough, how much loss in SNR is seen
>going through a network (typically an amplifier) -- N = (Si/Ni)/(So/No),
>expressed in dB. Say I have an antenna that I know happens to provide an SNR
>of 60dB... if I feed that antenna into an amplifier with a power gain of 100
>(20dB) and a noise factor of 2 (3dB), at the output of the amplifier my SNR
>will be 57dB. Easy peasy, right?
>
>But here's an interesting paradox: If I take that output with 57dB SNR and
>feed it to another, identical amplifier, shouldn't the SNR at its output now
>drop to 54dB?
>
>Of course, most people know the answer is "no," but it's not necessarily
>immediately obvious why this is.
>
>The problem, to quote Wes Hayward, is that "the noise figure concept has the
>drawback that it depends upon definition of a standard temperature, usually
>290K." In other words, the SNR at the output of an amplifier degrades by the
>noise figure *only if one can assume that the noise level going into the
>amplifier is equivalent to kTB*, where T is usually taken to be 290K (...by
>the guy who built the amplifier).
>
>This assumption isn't correct in the two cascaded amplifier case. Indeed,
>since the first amplifier has a gain of 20dB, in 1Hz the noise power coming
>out of the amplifier is -174+20+3 = -154dBm. This is equivalent to a noise
>temperature of 57533K! From this vantage point it's pretty obvious that an
>amplifier with a noise figure of 3dB -- corresponding to noise temperature of
>290K -- will have negligible impact on the overall noise output. (If you run
>through the numbers, the SNR at the output of the cascaded amplifiers is
>56.94dB.)
>
>Personally, I think that using noise temperatures tends to be "safer" than
>using noise figures, as the later can easily lead one astray if you're not
>careful to make sure you know what the "standard temperature" used was.
>(After all, if someone just hands you a piece of coax and says, "there's a
>60dB SNR signal on line, please amplify it by 20dB and insure that the output
>SNR is still >59dB," without more information there's no way to determine how
>good of an amplifier you need.) But I'd like to get other peoples' opinions
>on this subject... how do you think about noise figures and temperatures?
>
>Input appreciated,

Wes Hayward's articles in the 1970s completely transformed the way we think about the sensitivity and dynamic range of HF receivers. They mark the point where ideas such as "noise floor", "intermodulation intercept" and "blocking dynamic range" and "reciprocal mixing" entered mainstream amateur radio.

Inspired by those articles, I set out to apply those same concepts to VHF/UHF receivers... and ran into problems with the definitions of receiver sensitivity. Like everyone else who has traveled this route, I quickly found that the very large values of noise figure and noise temperature, that are typical at HF, can conceal some approximations and even misconceptions.

The approximations will probably be unimportant in HF systems where the receiver has a high noise figure / noise temperature, and antenna noise is usually greater still. However, the misconceptions are always important, because they will give incorrect results for VHF/UHF receivers. The difference at VHF/UHF is that receiver noise and antenna noise are often quite similar, and both much lower than at HF.

I must emphasize that the fundamental concepts are the same at all frequencies. The differences are all due to the magnitudes of the numbers involved.

To cut the story short, noise temperature is the only concept that will always give correct results. As Owen points out, some of the numbers are large and ugly - but the important thing is that they are correct. The results can easily be converted back into a more comfortable format... and those results will likewise be correct.

For example, modern Noise Figure Analyzers have options to accept inputs and display results in any relevant engineering units; but the internal calculations are done entirely in terms of noise temperature because that concept will always give the correct results.

An important misconception is about the role of "290K" as a reference temperature. Contrary to what is stated above, this is *not* a designer option ("usually 290K", implying that some other value could be chosen). That number 290 is built into the IEEE standard definition relating noise factor to noise temperature:

F = T/290 + 1

That equation defines what the engineering world means by "noise factor". F and T are variables but the number 290 not; it is fixed by definition. (Noise factor F is a dimensionless ratio; the more commonly-seen Noise Figure is simply F converted into dB.)

What engineers do sometimes assume is that the *physical* temperature of their hardware is 290K, because that special case does allow some convenient simplifications. But that isn't the same as saying "my reference temperature is 290K". At best, it is loose language - fooling ourselves by saying something that we don't really mean. At worst, it is a perfect example of the way that a good approximation can hide a

fundamental misconception.

An engineer working at HF wouldn't even notice what he has done. Because he is working with very high values of noise temperature, any errors will be negligible - in other words, he has made an excellent engineering approximation. But the misconceptions are still there... waiting. If that same engineer moves to work on low-noise UHF and microwave systems, he'll fall flat on his face.

Does this matter to he average radio amateur? Yes, it does, for many of us have multiband transceivers with coverage from HF through to UHF - exactly the range of applications where those pitfalls await the unwary. The engineers who design those radios need to have their concepts straight; so do the people who write equipment reviews; and if we want to make intelligent buying decisions, so do we all.

--

73 from Ian GM3SEK

1714. Propagation loss

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 10:32:11 UTC
From: covermap <covermap@gmail.com>
Message-ID: <242f2157-5913-43b8-991d-c8f71f76f140@w34g2000yqm.googlegroups.com>
Source record: 16938

Hi all, it is my webpage:

http://www.covermap.es

Covermap is an application that allows the calculation of propagation loss of a particular antenna defined by the user using Google Maps. In covermap you have the ability to see the extension of the radio antenna (coverage mode), the different coverage cells of positioned antennas (cellular mode) and get the loss in decibels on a particular point with respect to the antenna (point to point mode).

I'm looking for one company that makes possible to continue with this project.

1715. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 11:19:47 UTC
From: Jeff <jeff@local.host>
Message-ID: <49c4cdb8$0$1347$834e42db@reader.greatnowhere.com>
Source record: 16939

""Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:yyYwl.71674$PS5.37714@en-nntp-07.dc1.easynews.com...
> Here something I've been thinking about lately...
>
> The idea of a noise figure N is, simply enough, how much loss in SNR is
> seen going through a network (typically an amplifier) -- N =
> (Si/Ni)/(So/No), expressed in dB. Say I have an antenna that I know
> happens to provide an SNR of 60dB... if I feed that antenna into an
> amplifier with a power gain of 100 (20dB) and a noise factor of 2 (3dB),
> at the output of the amplifier my SNR will be 57dB. Easy peasy, right?

Easy peasy, but wrong!!!

You may have a 60dB SNR but that says nothing about the actual level of noise that is applied to the input of the amplifier from the antenna.

You may be better off thinking in terms of noise power (in Watts) rather than NF.

For example, your amplifier will add a noise power of 3dB above thermal to the path. If your input noise power from the antenna is 20dB above thermal then when it is summed with the amplifier's noise contribution there will only be a very very slight increase in the overall noise power. Hence the noise figure will only increase very slightly, and your SNR will only degrade very slightly. (It will not be 20+3dB!!!!)

The situation is the same when you add a second amplifier, you must take the sum of the input noise from the antenna and the amplifier noise (in watts), multiplied by the amplifier gain (not in dB) to give you the noise power that is at the input of the second amp. Then you must sum in the noise power contribution of the second amplifier.

From the above it now becomes clear that if the gain of the first amp dilutes the noise contribution of the second amp on the overall noise level. (unless the gain is very low and the NF of the second amp is very high).

73
Jeff

1716. Check to see if AIOE news server is blocking rec.radio.amateur.antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 13:54:46 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <8+cP8LFmGPxJFwiW@g3ohx.demon.co.uk>
Source record: 16940

Excuse the test, but this cannot be carried out on a test NG.
--
Ian

1717. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 15:04:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <QI7xl.20976$YU2.612@nlpi066.nbdc.sbc.com>
Source record: 16941

Jim Kelley wrote:
> Cecil Moore wrote:
>
>> Could it be that a monopole is a "STANDING WAVE ANTENNA"?
>
> The supposition is true, so the intended implication must be that only
> standing wave current can be measured on monopole antennas. And Roy
> therefore would have to have measured standing wave current (whatever
> that is).
>
> I must decline to agree. :-)

About 90% of the total current on an open-ended 1/4WL
monopole is standing wave current with close to unchanging
phase. That's why a 1/4WL monopole is called a "standing
wave antenna".

That is the current that Roy and Tom used so the component
traveling wave, accounting for about 10% of the total current
where the phase shift actually occurs, was mostly ignored and
swamped by the huge component standing wave.

This is such a simple concept - I don't see the problem
in understanding that a wave with the following equation
doesn't change phase with position (x). The phase is the
same over 90 degrees of length no matter what fixed x and
fixed t are chosen. EZNEC supports that fact of physics.
Here's the standing wave equation from "Optics", by Hecht:

E(x,t) = 2E01*sin(kx)*cos(wt) quoting "Optics", by Hecht:

"[Standing wave phase] "doesn't rotate at all, and the resultant
wave it represents doesn't progress through space - its a standing
wave."

Another interesting thing about the standing wave equation
is that the sign of (wt) can be reversed, i.e. standing waves
don't move in either direction - they just stand there. EM
waves cannot stand still so "EM standing wave" is an oxymoron.

Quoting one of my college textbooks, "Electrical
Communication", by Albert:

"Such a plot of voltage is usually referred to as a
voltage standing wave or as a *stationary wave*.
Neither of these terms is particularly descriptive
of the phenomenon. A plot of effective values of

voltage, appearing as in Fig. 6(e), *is not a wave*
in the usual sense. However, the term "standing wave"
is in widespread use."

From "College Physics", by Bueche and Hecht:

"These ... patterns are called *standing waves*, as
compared to the propagating waves considered above.
They might better not be called waves at all, since
they do not transport energy and momentum."

One can use EZNEC's VERT1.EZ to view the essentially
unchanging phase on a standing wave monopole. Just look
at the difference in phase between the feedpoint and a
point 45 degrees up the antenna. In 45 degrees of antenna,
the current phase changes by 3.65 degrees. That is the
current Roy used to measure phase shift through a coil
in order to support w8ji's 3 nS delay "measurements".
--
73, Cecil http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1718. ♥♥♥♥♥Bisexual male teen getting ass plugged in an MMMF foursome♥♥♥♥♥

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 16:33:20 UTC
From: boooobsindian <boobsaunty.aunty@gmail.com>
Message-ID: <f77229b2-ea0a-4d4e-85c3-b23acae141a1@z16g2000prd.googlegroups.com>
Source record: 16942

♣♣♣

1719. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-21 22:22:56 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD65F7158B98nonenowhere@61.9.191.5>
Source record: 16943

Hello Ian,

Ian White GM3SEK <gm3sek@ifwtech.co.uk> wrote in
news:u125$fEMILxJFARQ@ifwtech.co.uk:

...
> To cut the story short, noise temperature is the only concept that
> will always give correct results. As Owen points out, some of the
> numbers are large and ugly - but the important thing is that they are
> correct. The results can easily be converted back into a more
> comfortable format... and those results will likewise be correct.

I make the observation that hams *like* Noise Figure, the the roll up of a system component's Noise Figure into whole of system impact is often (very often) not done well.

I was explaining to a local EME enthusiast that a certain two stage 1296 LNA that represents NF=0.51dB when the FET specs give NF=0.78dB for the first FET alone, is very creative. When the effects of input circuit loss and roll up of the second stage noise is included, it is unlikely that such a preamp would have a guaranteed NF better an 0.9dB.

In high performance systems, I perceive a preference to not use G/T as a metric for receive system performance. Rather, hams will quote (brag) Sun noise rise (Sun/ColdSky ratio) without statement of the solar flux at the time, or the time (from which solar flux can be estimated from historical records), or if they do quote solar flux, it will be the 10.7cm flux which cannot be reliably extrapolated to the relevant ham band.

The 'science' is often obscured by shallow discussions about whether LNA Noise Figure is more important than Gain.

Owen

1720. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 00:53:41 UTC
From: Jim-NN7K
Message-ID: <AUfxl.15090$D32.14005@flpi146.ffdc.sbc.com>
Source record: 16944

So-- Which is the most relevant noise measurement? Noise Figure-
or Noise Temperature? If one is better than another at a given
frequency, than another, and then the other is better at greater freqs,
WHY? (and, keeping in mind the FIRST stage establishes the Noise
figure,IF it's gain is enough to overcome the next stage's noise
figure) , then why is this a consideration?
Finally, as temperature is free space must approach absolute zero,
but, considering space "noise from stars, ect", what is it REAL
absolute Noise Temp of the (cold) sky? Inquiring minds want to know!

Jim NN7K

Owen Duffy wrote:
> Hello Ian,
>
> Ian White GM3SEK <gm3sek@ifwtech.co.uk> wrote in
> news:u125$fEMILxJFARQ@ifwtech.co.uk:
>
> ...
>> To cut the story short, noise temperature is the only concept that
>> will always give correct results. As Owen points out, some of the
>> numbers are large and ugly - but the important thing is that they are
>> correct. The results can easily be converted back into a more
>> comfortable format... and those results will likewise be correct.
>
> I make the observation that hams *like* Noise Figure, the the roll up of
> a system component's Noise Figure into whole of system impact is often
> (very often) not done well.
>
> I was explaining to a local EME enthusiast that a certain two stage 1296
> LNA that represents NF=0.51dB when the FET specs give NF=0.78dB for the
> first FET alone, is very creative. When the effects of input circuit loss
> and roll up of the second stage noise is included, it is unlikely that
> such a preamp would have a guaranteed NF better an 0.9dB.
>
> In high performance systems, I perceive a preference to not use G/T as a
> metric for receive system performance. Rather, hams will quote (brag) Sun
> noise rise (Sun/ColdSky ratio) without statement of the solar flux at the
> time, or the time (from which solar flux can be estimated from historical
> records), or if they do quote solar flux, it will be the 10.7cm flux
> which cannot be reliably extrapolated to the relevant ham band.
>
> The 'science' is often obscured by shallow discussions about whether LNA
> Noise Figure is more important than Gain.
>

> Owen

1721. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 01:45:57 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD681DC58BC0nonenowhere@61.9.191.5>
Source record: 16945

Jim-NN7K <nn7kexk7zfg@noway.net.> wrote in
news:AUfxl.15090$D32.14005@flpi146.ffdc.sbc.com:

>
>
> So-- Which is the most relevant noise measurement? Noise Figure-
> or Noise Temperature? If one is better than another at a given

As both Ian and I mentioned, Noise Figure is based on the degradation in S/N ratio assuming that the source contributes 290K thermal or Johnson noise (KTB noise) from the equivalent source resistance.

This if fine for describing the operation of a receiver when driven by a standard signal generator.

The radiation resistance component of the equivalent source impedance of an antenna is not a source of KTB noise, but is a source of received noise power from various sources, and the level varies with many factors including frequency and time.

Expressing a receive system performance as a Noise Figure assumes an external or 'ambient' noise component that is of little application relevance.

Expressing a receive system performance as an equivalent Noise Temperature expresses only the receiver's internal noise, which is a limited perspective from an application point of view. However, comparison of the system's internal noise with the external noise gives insight into the S/N degradation due to the system.

Both measures contain sufficient information, just that you have to transform NF to obtain Teq which is the more direct input to calculation of system S/N, or exploration of cascaded stages for example. Because of this, NF is sometimes misinterpreted as to its direct signifcance.

> frequency, than another, and then the other is better at greater
> freqs, WHY? (and, keeping in mind the FIRST stage establishes the
> Noise
> figure,IF it's gain is enough to overcome the next stage's noise
> figure) , then why is this a consideration?

The first stage is very important in determining system noise temperature, but in high performance stations, so are the losses in the feed system, switching etc. The contribution of later stages should not be considered insignificant until calculated.

Often, the LNA runs with so much gain that the transceiver AGC reduces gain sufficiently to degrade transceiver noise temperature to perhaps 30,000K (NF=20dB). Consider a 0.5dB NF 35dB gain LNA (T=35K, Gain=3,000), then it rolls 30,000/3000=10K into the system noise temperature which may be significant depending on the external noise level.

Even worse is the scenario where an OM installs a 20dB attenuator between LNA and transceiver to 'correct' S meter readings. In that case, a 5dB NF receiver with 20dB attenuator has NF=25dB, T=90,000K, so it rolls 90,000/3000=30K into the otherwise same system... but this is done!

> Finally, as temperature is free space must approach absolute zero,
> but, considering space "noise from stars, ect", what is it REAL
> absolute Noise Temp of the (cold) sky? Inquiring minds want to know!

IIRC the coldest part of the sky in the 5 - 10GHz region is around 4K. As I mentioned in an earlier post, practical antennas capture significant energy in their sidelobes, so the total noise input power might be well in excess of 4K.

The more interesting question is the background when pointing in the desired direction (eg the moon for EME), and how much sidelobe noise is received.

Owen

1722. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 05:49:43 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Yjkxl.162610$fM1.92174@newsfe14.iad>
Source record: 16946

"Jim-NN7K" <nn7kexk7zfg@noway.net.> wrote in message
news:AUfxl.15090$D32.14005@flpi146.ffdc.sbc.com...
>
>
> So-- Which is the most relevant noise measurement? Noise Figure-
> or Noise Temperature? If one is better than another at a given
> frequency, than another, and then the other is better at greater freqs,
> WHY?

In my experience, the community seems to dictate the terminology. (If you buy a big, long sandwich for lunch, is it a "hero," a "sub" or a "hoagie"?)

More to the point, when selecting an LNA for C-band satellite, you will almost always see the noise temperature in the specs. However, for Ku-band, the LNA noise figure is usually spec'ed.

As was pointed out, they are directly convertible. Go a little less than halfway downpage at
http://www.microwaves101.com/encyclopedia/noisefigure.cfm
and see the graph of noise temperature versus noise figure. (This web page also provides illustrations of what's already been presented here.)

The noise figure of the first stage strongly influences the total system noise figure, hence the oft-seen placement of a low noise preamp close to the antenna.

1723. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 06:34:03 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD6B2B4E8028nonenowhere@61.9.191.5>
Source record: 16949

Richard Clark <kb7qhc@comcast.net> wrote in
news:frnbs4dmfcs958p0821j4nh1gnqevf1uh9@4ax.com:

> On Fri, 20 Mar 2009 19:46:53 -0700, "Joel Koltner"
> <zapwireDASHgroups@yahoo.com> wrote:
>
>>Say I have an antenna that I know happens to provide an SNR
>>of 60dB...
>
> I've been following this saga for a while now, and I note no one seems
> nonplused by the statement above. For as much that has been unsaid,
> there must be a flood of presumptions that flowed from this detail.

Indeed. I addressed some in my second posting, perhaps you missed it?

Owen

1724. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 06:55:20 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <frnbs4dmfcs958p0821j4nh1gnqevf1uh9@4ax.com>
Source record: 16947

On Fri, 20 Mar 2009 19:46:53 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>Say I have an antenna that I know happens to provide an SNR
>of 60dB...

I've been following this saga for a while now, and I note no one seems
nonplused by the statement above. For as much that has been unsaid,
there must be a flood of presumptions that flowed from this detail.

73's
Richard Clark, KB7QHC

1725. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 07:10:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5bobs4594bu4ke8es4qmr5jj67uo8qfecs@4ax.com>
Source record: 16948

On Sat, 21 Mar 2009 22:49:43 -0700, "Sal M. Onella"
<salmonella@food.poisoning.org> wrote:

>In my experience, the community seems to dictate the terminology. (If you
>buy a big, long sandwich for lunch, is it a "hero," a "sub" or a "hoagie"?)

I would call it a "grinder."

>More to the point, when selecting an LNA for C-band satellite, you will
>almost always see the noise temperature in the specs. However, for Ku-band,
>the LNA noise figure is usually spec'ed.

I've designed for low noise, but not for amateur applications. When I
did that design, I chose to work with something that appears to be
alien here, NEP or Noise Equivalent Power. I did this because every
circuit I know of has an input and output resistance and those were
intimately associated with Johnson noise (is this too ancient a term
even if many here are using his concept expressed by Nyquist's math?).
To this point no one seems even remotely interested in resistance (and
it would appear that the focus on a 4 or 5 degree K source of deep
space would be awash in resistor noise in an amp soaking in the
typical ambient of room temperature).

73's
Richard Clark, KB7QHC

1726. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 10:29:07 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <9vJdJcFzLhxJFAT6@ifwtech.co.uk>
Source record: 16950

Sal M. Onella wrote:
>
>"Jim-NN7K" <nn7kexk7zfg@noway.net.> wrote in message
>news:AUfxl.15090$D32.14005@flpi146.ffdc.sbc.com...
>>
>>
>> So-- Which is the most relevant noise measurement? Noise Figure-
>> or Noise Temperature? If one is better than another at a given
>> frequency, than another, and then the other is better at greater freqs,
>> WHY?
>
>In my experience, the community seems to dictate the terminology. (If you
>buy a big, long sandwich for lunch, is it a "hero," a "sub" or a "hoagie"?)
>
>More to the point, when selecting an LNA for C-band satellite, you will
>almost always see the noise temperature in the specs. However, for Ku-band,
>the LNA noise figure is usually spec'ed.
>
>As was pointed out, they are directly convertible. Go a little less than
>halfway downpage at
>http://www.microwaves101.com/encyclopedia/noisefigure.cfm
>and see the graph of noise temperature versus noise figure. (This web page
>also provides illustrations of what's already been presented here.)
>

You're quite correct. It's the same underlying physics and theory in every case, but each user community chooses the approach that it finds most useful.

For example, audio/LF designers tend to deal in noise voltages and also need to think about source and load resistances. RF designers think more in terms of noise power, noise factor (ratio) and noise figure (dB); and since performance tends to be specified and measured in a 50-ohm system, it often isn't necessary to know the individual source and load impedances.

The alternative for RF designers is to think in terms of noise temperatures. For individual devices such as LNAs, NF and noise temperature are virtually interchangeable (and the difference in usage between C-band and Ku-band is purely historical). However, noise temperature is more appropriate for analysis of complete receiving *systems* that must include the antenna noise temperature as another important variable.

There are no paradoxes and no conflicts here, only alternative ways of looking at the same physical phenomena. That vision only falls apart if one of the alternative viewpoints contains unaware approximations or errors.

--

73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

1727. Re: radio aerial (antenna) won't stay in position

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 15:16:13 UTC
From: Bob Larter <bobbylarter@gmail.com>
Message-ID: <gq5kmbcef1@blackhelicopter.databasix.com>
Source record: 16851
Cross-posted to: alt.radio.digital,sci.electronics.repair,uk.d-i-y,24hoursupport.helpdesk,rec.audio.tech,rec.radio.amateur.antenna

Kadaitcha Man wrote:
> Keyser Sï¿½ze, ye freakish work for bread, I had rather be married to a
> deaths head with a bone in his mouth, ye gnarled:
>
>> I think
>
> BWAHAhAHAHAHAHAHAH!

Let me guess; you picked this thread up in 24hoursupport.muppets, right?

--
W
. | ,. w , "Some people are alive only because
\|/ \|/ it is illegal to kill them." Perna condita delenda est
---^----^---

1728. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 19:41:53 UTC
From: Jim-NN7K
Message-ID: <fqwxl.15142$D32.4632@flpi146.ffdc.sbc.com>
Source record: 16853

Thanks all, very informative-- as this old geezer learned of noise
figure/factor , in the early 60's. and about the time Satelite TV
appeared started seeing reference to noise temp, but was never
too worried about the difference- just curious. and -as I
check this group every couple-3 days, and usually only down
load the most recent 35 pages- must have missed the original
postings. Always wondered if compairing apples to apples,
or to oranges! Now I know ! Again , TNX & 73 Jim NN7K

Richard Clark wrote:
> On Sun, 22 Mar 2009 06:34:03 GMT, Owen Duffy <none@no.where> wrote:
>
>> Richard Clark <kb7qhc@comcast.net> wrote in
>> news:frnbs4dmfcs958p0821j4nh1gnqevf1uh9@4ax.com:
>>
>>> On Fri, 20 Mar 2009 19:46:53 -0700, "Joel Koltner"
>>> <zapwireDASHgroups@yahoo.com> wrote:
>>>
>>>> Say I have an antenna that I know happens to provide an SNR
>>>> of 60dB...
>>> I've been following this saga for a while now, and I note no one seems
>>> nonplused by the statement above. For as much that has been unsaid,
>>> there must be a flood of presumptions that flowed from this detail.
>> Indeed. I addressed some in my second posting, perhaps you missed it?
>>
>> Owen
>

1729. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-22 19:46:21 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <to4ds41471fk0d9m6v99c8pqsgntsftdqh@4ax.com>
Source record: 16852

On Sun, 22 Mar 2009 06:34:03 GMT, Owen Duffy <none@no.where> wrote:

>Richard Clark <kb7qhc@comcast.net> wrote in
>news:frnbs4dmfcs958p0821j4nh1gnqevf1uh9@4ax.com:
>
>> On Fri, 20 Mar 2009 19:46:53 -0700, "Joel Koltner"
>> <zapwireDASHgroups@yahoo.com> wrote:
>>
>>>Say I have an antenna that I know happens to provide an SNR
>>>of 60dB...
>>
>> I've been following this saga for a while now, and I note no one seems
>> nonplused by the statement above. For as much that has been unsaid,
>> there must be a flood of presumptions that flowed from this detail.
>
>Indeed. I addressed some in my second posting, perhaps you missed it?
>
>Owen

Hi Owen,

I did note:
On Sat, 21 Mar 2009 03:25:39 GMT, Owen Duffy <none@no.where> wrote:
>I get 60-3.2=56.8dB.

Which appears to embrace this oddity of characterization.

And, as you offer, you say:
On Sat, 21 Mar 2009 03:43:21 GMT, Owen Duffy <none@no.where> wrote:
>It says nothing of the absolute noise power or signal power. You seem to
>assume the noise power KTB noise where T is 290K.

Which still leaves an astonishing characterization accepted, if only
to seemingly fulfill a presumption.

Perhaps I should more blunt, but the quote I lifted only speaks to two
things: an antenna, and a claim for its signal to noise ratio.

60 dB ??????????????

This isn't credible leaving the gate, and how it is then used as a
source to expand the discussion is bewildering beyond compare.

The topic heading as being a paradox is certainly apt, however.

73's
Richard Clark, KB7QHC

1730. bet theres a few antenna down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 09:52:50 UTC
From: sativasam <sativaspam@ntlworld.com>
Message-ID: <XZIxl.214258$TK1.9518@newsfe16.ams2>
Source record: 16854

Bet there's a few antenna blown down
in the UK this windy weekend.
Mine came down months ago, so nothing to worry me this year... Soon though
the wire will be elevated...

1731. Re: bet theres a few antenna down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 11:24:34 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <JGJCiSGyF3xJFwHv@g3ohx.demon.co.uk>
Source record: 16855

In message <XZIxl.214258$TK1.9518@newsfe16.ams2>, sativasam
<sativaspam@ntlworld.com> writes
>Bet there's a few antenna blown down
>in the UK this windy weekend.
>Mine came down months ago, so nothing to worry me this year... Soon
>though the wire will be elevated...

Uh? It's a bit gusty this morning but, over weekend, I don't think that
it was at all windy anywhere in the UK.
--
Ian

1732. Re: Check to see if AIOE news server is blocking rec.radio.amateur.antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 14:09:04 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <ktV5oxSAg5xJFwAI@g3ohx.demon.co.uk>
Source record: 16856

In message <8+cP8LFmGPxJFwiW@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> writes
>Excuse the test, but this cannot be carried out on a test NG.

It seems that I 'got in' OK using AIOE, but there are others who still
can't.
--
Ian

1733. Re: Check to see if AIOE news server is blocking rec.radio.amateur.antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 14:53:37 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <P$pTs6WxJ6xJFwVJ@g3ohx.demon.co.uk>
Source record: 16857

In message <ktV5oxSAg5xJFwAI@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> writes
>In message <8+cP8LFmGPxJFwiW@g3ohx.demon.co.uk>, Ian Jackson
><ianREMOVETHISjackson@g3ohx.demon.co.uk> writes
>>Excuse the test, but this cannot be carried out on a test NG.
>
>It seems that I 'got in' OK using AIOE, but there are others who still
>can't.

This is with my port setting changed from 'NNTP' to '119'.
The server is still 'nntp.aioe.org'.
--
Ian

1734. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 15:50:57 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gq8b51piq1@news.jpl.nasa.gov>
Source record: 16859

Owen Duffy wrote:
> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in
> news:QoQvl.13889$8_3.3071@flpi147.ffdc.sbc.com:
>
> ...
>> Why would NEC reduce a TL two-port to a lumped load? Two-port
>> parameters can handle transmission line problems quite well without
>> the simplifying assumption that all components are of zero length.
>
> Hi Tom,
>
> I expect that NEC does model the propagation delay from end to end on a
> transmission line. My comment was that NEC reduces a s/c TL stub to a
> lumped load for the stub input end which is inserted in the vertical.
>
>
No it doesn't do prop delay. It does a steady state model. The TL is
just another two port that gets dumped into a giant matrix which is
solved as a system of linear equations. Think of TL as a special case of NT.

1735. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 15:58:20 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gq8bis$i4$1@news.jpl.nasa.gov>
Source record: 16858

Owen Duffy wrote:
> Hello Ian,
>
> Ian White GM3SEK <gm3sek@ifwtech.co.uk> wrote in
> news:u125$fEMILxJFARQ@ifwtech.co.uk:
>
> ...
>> To cut the story short, noise temperature is the only concept that
>> will always give correct results. As Owen points out, some of the
>> numbers are large and ugly - but the important thing is that they are
>> correct. The results can easily be converted back into a more
>> comfortable format... and those results will likewise be correct.
>
> I make the observation that hams *like* Noise Figure, the the roll up of
> a system component's Noise Figure into whole of system impact is often
> (very often) not done well.
>
> I was explaining to a local EME enthusiast that a certain two stage 1296
> LNA that represents NF=0.51dB when the FET specs give NF=0.78dB for the
> first FET alone, is very creative. When the effects of input circuit loss
> and roll up of the second stage noise is included, it is unlikely that
> such a preamp would have a guaranteed NF better an 0.9dB.

For a narrow band application, it is indeed possible to construct a
circuit which has lower noise temperature than the active devices. Look
up "cold fet noise source". (a quick google turns up, for instance,
patent 6439763..)

>
> In high performance systems, I perceive a preference to not use G/T as a
> metric for receive system performance.

This is hams, the preferences of which you speak? In the rest of the
microwave station world, I think G/T is a popular "one metric for all",
at least for things pointed at the sky.

Rather, hams will quote (brag) Sun

1736. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 16:06:55 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gq8c2v$5gv$1@news.jpl.nasa.gov>
Source record: 16864

Jim-NN7K wrote:
>
>
> So-- Which is the most relevant noise measurement? Noise Figure-
> or Noise Temperature? If one is better than another at a given
> frequency, than another, and then the other is better at greater freqs,
> WHY? (and, keeping in mind the FIRST stage establishes the Noise
> figure,IF it's gain is enough to overcome the next stage's noise
> figure) , then why is this a consideration?
> Finally, as temperature is free space must approach absolute zero,
> but, considering space "noise from stars, ect", what is it REAL
> absolute Noise Temp of the (cold) sky? Inquiring minds want to know!
>
> Jim NN7K
>
Depends on the frequency and things like humidity and cloud cover.

At microwave frequencies (say, 10 GHz-ish) 3-4 K is a good starting
point for dry air on a clear night.

If there's any loss in the path (e.g. from watervapor absorption) the
noise temperature comes up.

If there's anything hot in the path (e.g. clouds with liquid water) then
the noise temp comes up.

If there's something in the path (clouds) that reflects the energy from
something hot (earth) then the noise temp comes up.

This kind of thing is used to measure atmospheric moisture (look up
"water vapor radiometer")

I built a precision ground station to record an orbiting radar (on
QuikScat), and you could easily tell when it was humid or there was
cloud cover by just looking at the background noise level.
http://trs-new.jpl.nasa.gov/dspace/handle/2014/18497

Some BYU students made use of it, and have put up a nice website here:
http://www.mers.byu.edu/QCGS/cgs_home.htm

1737. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 16:36:01 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <UTOxl.73578$PS5.52431@en-nntp-07.dc1.easynews.com>
Source record: 16860

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BD592C3B7829nonenowhere@61.9.191.5...
> "Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
> news:yyYwl.71674$PS5.37714@en-nntp-07.dc1.easynews.com:
>> But here's an interesting paradox: If I take that output with 57dB SNR
>> and feed it to another, identical amplifier, shouldn't the SNR at its
>> output now drop to 54dB?
> Appealing, but wrong.

Well, correct *under a certain set of assumptions*. As with, e.g.,
manufacturer's data sheets and quiz/exam problems done in school, often these
assumptions are unstated.

In other words, I'm purposely not stating my assumptions to demonstrate how to
get yourself into trouble more readily. :-)

> An real antenna might supply much less through to much much more noise.

How does an antenna at 290K supply less? I mean, ignoring how well it works
as an antenna, shouldn't it still have kTB worth of noise generated just from
the resistance in its conductors?

> (If you run through the numbers,
>> the SNR at the output of the cascaded amplifiers is 56.94dB.)
> I get 60-3.2=56.8dB.

I think that's rounding differences and my using T0=290K rather than 289K as a
reference.

> It is not so much an issue of safer, is it use and mis-use, it is about
> how you use NF with cascaded stages. Essentially, you convert them to T,
> apply the gain effects, then T back to a NF for the combination.

Sounds safe to me.

I find noise temperatures just as if not more intuitive than noise figures,
and (to me) it's more obvious what's going on when you have a string of
amplifiers.

> You might find this little calculator interesting / helpful:
> http://www.vk1od.net/calc/RxSensitivityCalc.htm .

Looks nice, thanks!

---Joel

1738. Re: Biggest Loon on the Group - Taking a Poll

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 16:40:07 UTC
From: Charles Knott <charlesknott@nospam.com>
Message-ID: <gq8e1bpqk1@news.motzarella.org>
Source record: 16861
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

You forgot the biggest one of all time

LARDASS LLOYD DAVIES of Athens, AL

Everyone remembers him faking his own death and posting as his pretend female cousin threatning to sue everyone here. Remember he was also "Prophet Davies" and "Brother Lloyd" ???/

1739. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 16:44:10 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <w%Oxl.49578$UQ6.37181@en-nntp-03.dc1.easynews.com>
Source record: 16862

"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
news:u125$fEMILxJFARQ@ifwtech.co.uk...
> An important misconception is about the role of "290K" as a reference
> temperature. Contrary to what is stated above, this is *not* a designer
> option ("usually 290K", implying that some other value could be chosen).

Well, Owen was using 289K and Wes says, "the noise figure concept has the drawback that it depends upon definition of a standard temperature, usually 290K." Hence, while I certainly accept that "the IEEE standard definition" is 290K, it seems to me that it's a bit of wishful thinking to suggest that no one has ever used a different reference temperature in their work.

---Joel

1740. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 16:45:43 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SZOxl.4087$Lr6.830@flpi143.ffdc.sbc.com>
Source record: 16863

Jim Lux wrote:
> No it doesn't do prop delay.

The prop delay is easily calculated by loading the TL
with Rload=Z0 and observing the resulting traveling wave
phase shift while taking VF into account. In the same
manner, the prop delay through a loading coil can be
calculated.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1741. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 17:05:04 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <6jPxl.49579$UQ6.36750@en-nntp-03.dc1.easynews.com>
Source record: 16865

"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
news:9vJdJcFzLhxJFAT6@ifwtech.co.uk...
> For example, audio/LF designers tend to deal in noise voltages and also need
> to think about source and load resistances. RF designers think more in terms
> of noise power, noise factor (ratio) and noise figure (dB); and since
> performance tends to be specified and measured in a 50-ohm system, it often
> isn't necessary to know the individual source and load impedances.

These days using a regular old op-amp as an HF amplifier can often be attractive, although when you go through the math you find out that it's very difficult to obtain a low enough noise op-amp such that it has a noise figure less than about 10dB (and even obtianing 20dB requires some care -- you can easily end up with >40dB if you're not careful!). Texas Instruments has a good application note on this: focus.ti.com/lit/an/slyt094/slyt094.pdf .

Hence op-amps are pretty much out for LNAs, but can be quite useful by the time you're hitting an IF and already have some reasonable amount of gain ahead.

---Joel

1742. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 17:08:48 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <CmPxl.79533$9j5.44028@en-nntp-01.dc1.easynews.com>
Source record: 16866

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:frnbs4dmfcs958p0821j4nh1gnqevf1uh9@4ax.com...
> On Fri, 20 Mar 2009 19:46:53 -0700, "Joel Koltner"
> <zapwireDASHgroups@yahoo.com> wrote:
>>Say I have an antenna that I know happens to provide an SNR
>>of 60dB...
> I've been following this saga for a while now, and I note no one seems
> nonplused by the statement above. For as much that has been unsaid,
> there must be a flood of presumptions that flowed from this detail.

It would have been much better off for me to state that, "Say I have a signal generator that I know happens to provide an SNR of 60dB." I knew that background radition temperatures were high, but not that even the quietest parts of the spectrum are 4,000K!

1743. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 17:11:31 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <8pPxl.79540$9j5.24933@en-nntp-01.dc1.easynews.com>
Source record: 16867

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:to4ds41471fk0d9m6v99c8pqsgntsftdqh@4ax.com...
> Perhaps I should more blunt, but the quote I lifted only speaks to two
> things: an antenna, and a claim for its signal to noise ratio.
>
> 60 dB ??????????????

Originally I almost added something like, "(assume you're standing next to the transmitter)" :-)

60dB+ isn't unheard of for hilltop-to-hilltop microwave links though, is it? And one might obtain 50dB with regular TV antennas if they have a good line-of-sight to the transmitter and there aren't significant reflections, right?

1744. Antenna & Tuner on 160M Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 18:09:37 UTC
From: "Bob D." <bobbyd849@comcast.net>
Message-ID: <zuydnfE3R4nRTVrUnZ2dnUVZ_sPinZ2d@giganews.com>
Source record: 16868

I have an Alpha Delta DX-LB Plus antenna. This is a 160, 80, 40, 20, 15, 10M fan antenna with loading coils for 160 and 80M. It is only 100 ft long. I have it up 60 ft as an inverted Vee. I recently bought an MFJ-998 IntelliTuner. The tuner can't match the entire 160M band. Should it be able to?

Would I be better off with a separate 160 antenna? I'm on a 111 x 60 ft lot with an 80 ft tower and two tall trees. What would be my best bet for 160M.

--
Bob D. ND9B

1745. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 18:20:12 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <xpQxl.21895$c45.15079@nlpi065.nbdc.sbc.com>
Source record: 16869

Cecil Moore wrote:
> Jim Lux wrote:
>> No it doesn't do prop delay.
>
> The prop delay is easily calculated by loading the TL
> with Rload=Z0 and observing the resulting traveling wave
> phase shift while taking VF into account. In the same
> manner, the prop delay through a loading coil can be
> calculated.

What's the Z0 of a loading coil, Cecil?
73,
Tom Donaly, KA6RUH

1746. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 18:25:31 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <IuQxl.21896$c45.14234@nlpi065.nbdc.sbc.com>
Source record: 16870

Jim Lux wrote:
> Owen Duffy wrote:
>> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in
>> news:QoQvl.13889$8_3.3071@flpi147.ffdc.sbc.com:
>> ...
>>> Why would NEC reduce a TL two-port to a lumped load? Two-port
>>> parameters can handle transmission line problems quite well without
>>> the simplifying assumption that all components are of zero length.
>>
>> Hi Tom,
>>
>> I expect that NEC does model the propagation delay from end to end on
>> a transmission line. My comment was that NEC reduces a s/c TL stub to
>> a lumped load for the stub input end which is inserted in the vertical.
>>
>>
> No it doesn't do prop delay. It does a steady state model. The TL is
> just another two port that gets dumped into a giant matrix which is
> solved as a system of linear equations. Think of TL as a special case of
> NT.

What kind of two port does NEC use, Jim? What is "just another two port?"
73,
Tom Donaly, KA6RUH

1747. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 19:28:18 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <rN2dnf-Ppf1If1rUnZ2dnUVZ_u6dnZ2d@posted.easystreetonline>
Source record: 16872

Tom Donaly wrote:
> Jim Lux wrote:
>>>. . .
>> No it doesn't do prop delay. It does a steady state model. The TL is
>> just another two port that gets dumped into a giant matrix which is
>> solved as a system of linear equations. Think of TL as a special case
>> of NT.
>
> What kind of two port does NEC use, Jim? What is "just another two port?"
> 73,
> Tom Donaly, KA6RUH

NEC network objects are two port networks described by a set of Y parameters -- see the NEC-2 documentation on the NT "card". When a transmission line is specified via a TL "card", the Y parameters appropriate for the specified line length and Z0 are calculated for a standard Y parameter network which is then used in the model. In the code, this is done in the NETWK subroutine between line labels 16 and 17.

EZNEC v. 5.0 allows the user to specify a skin-effect proportional transmission line loss. It accomplishes this internally by appropriately modifying the network Y parameters.

Roy Lewallen, W7EL

1748. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 20:09:10 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gq8mp5fga1@news.service.uci.edu>
Source record: 16871

Cecil Moore wrote:
> Jim Kelley wrote:
>> Cecil Moore wrote:
>>
>>> Could it be that a monopole is a "STANDING WAVE ANTENNA"?
>>
>> The supposition is true, so the intended implication must be that only
>> standing wave current can be measured on monopole antennas. And Roy
>> therefore would have to have measured standing wave current (whatever
>> that is).
>>
>> I must decline to agree. :-)
>
> About 90% of the total current on an open-ended 1/4WL
> monopole is standing wave current with close to unchanging
> phase. That's why a 1/4WL monopole is called a "standing
> wave antenna".

Presumably they're not called that because of 'standing current'. A
standing wave is just the stationary pattern that results from the
interference of waves. It doesn't really have a 'life' of it's own.

> This is such a simple concept - I don't see the problem
> in understanding that a wave with the following equation
> doesn't change phase with position (x).

Cecil - as the equation is written, the phase term IS position. The
phase of the sine function changes with x.

> The phase is the
> same over 90 degrees of length no matter what fixed x and
> fixed t are chosen. EZNEC supports that fact of physics.
> Here's the standing wave equation from "Optics", by Hecht:

The phase of a time varying function changes with time except in the
special case of a 'standing wave' function, where it changes with position.

> E(x,t) = 2E01*sin(kx)*cos(wt) quoting "Optics", by Hecht:
>
> "[Standing wave phase] "doesn't rotate at all, and the resultant
> wave it represents doesn't progress through space - its a standing
> wave."

Right. He could (and should) have gone on to say that standing waves
don't really *DO* anything at all.

> Another interesting thing about the standing wave equation
> is that the sign of (wt) can be reversed, i.e. standing waves
> don't move in either direction - they just stand there. EM
> waves cannot stand still so "EM standing wave" is an oxymoron.

> Quoting one of my college textbooks, "Electrical
> Communication", by Albert:
>
> "Such a plot of voltage is usually referred to as a
> *voltage standing wave* or as a *stationary wave*.
> Neither of these terms is particularly descriptive
> of the phenomenon. A plot of effective values of
> voltage, appearing as in Fig. 6(e), *is not a wave*
> in the usual sense. However, the term "standing wave"
> is in widespread use."
>
> From "College Physics", by Bueche and Hecht:
>
> "These ... patterns are called *standing waves*, as
> compared to the propagating waves considered above.
> They might better not be called waves at all, since
> they do not transport energy and momentum."

Right. All of which deepens the mystery of why you would continue to
insist on claiming that Roy measured standing wave current.

> One can use EZNEC's VERT1.EZ to view the essentially
> unchanging phase on a standing wave monopole. Just look
> at the difference in phase between the feedpoint and a
> point 45 degrees up the antenna. In 45 degrees of antenna,
> the current phase changes by 3.65 degrees. That is the
> current Roy used to measure phase shift through a coil
> in order to support w8ji's 3 nS delay "measurements".

I still need you to explain what standing wave _current_ is, and, just
as importantly how it phase shifts by *TRAVELING* through a coil.

73, ac6xg

1749. Re: Antenna & Tuner on 160M Question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 20:57:40 UTC
From: dave <dave@dave.dave>
Message-ID: <49c7f7c6$0$31206$bd467cd0@news.dslextreme.com>
Source record: 16873

Bob D. wrote:
> I have an Alpha Delta DX-LB Plus antenna. This is a 160, 80, 40, 20, 15, 10M
> fan antenna with loading coils for 160 and 80M. It is only 100 ft long. I
> have it up 60 ft as an inverted Vee. I recently bought an MFJ-998
> IntelliTuner. The tuner can't match the entire 160M band. Should it be able
> to?
>
> Would I be better off with a separate 160 antenna? I'm on a 111 x 60 ft lot
> with an 80 ft tower and two tall trees. What would be my best bet for 160M.
>

Figure out a way to excite the 80' tower.

1750. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:20:22 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD854D588989nonenowhere@61.9.191.5>
Source record: 16874

Jim Lux <james.p.lux@jpl.nasa.gov> wrote in
news:gq8bis$i4$1@news.jpl.nasa.gov:

> Owen Duffy wrote:
...
>> In high performance systems, I perceive a preference to not use G/T
>> as a metric for receive system performance.
>
> This is hams, the preferences of which you speak? In the rest of the
> microwave station world, I think G/T is a popular "one metric for
> all", at least for things pointed at the sky.

Yes Jim, an omission on my part... hams tend not to use G/T... but yes,
the rest of the world recognises the value of G/T as a single metric,
especially for space comms.

I suppose one complication of G/T for EME is that the noise varies with
moon position and local elevation... but one thinks that a range of G/T
figures could be expressed to characterise a station's capability.

G/T for a Sun transit at high elevation would be a most useful metric for
assessing a station against state of the art.

Owen

1751. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:21:00 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD854F107060nonenowhere@61.9.191.5>
Source record: 16875

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:UTOxl.73578$PS5.52431@en-nntp-07.dc1.easynews.com:

> "Owen Duffy" <none@no.where> wrote in message
> news:Xns9BD592C3B7829nonenowhere@61.9.191.5...
>> "Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
>> news:yyYwl.71674$PS5.37714@en-nntp-07.dc1.easynews.com:
>>> But here's an interesting paradox: If I take that output with 57dB
>>> SNR and feed it to another, identical amplifier, shouldn't the SNR
>>> at its output now drop to 54dB?
>> Appealing, but wrong.
>
> Well, correct *under a certain set of assumptions*. As with, e.g.,
> manufacturer's data sheets and quiz/exam problems done in school,
> often these assumptions are unstated.
>
> In other words, I'm purposely not stating my assumptions to
> demonstrate how to get yourself into trouble more readily. :-)
>
>> An real antenna might supply much less through to much much more
>> noise.
>
> How does an antenna at 290K supply less? I mean, ignoring how well it
> works as an antenna, shouldn't it still have kTB worth of noise
> generated just from the resistance in its conductors?

An antenna's feedpoint impedance comprises radiation resistance and loss
resistance.

Radiation resistance is a virtual resistance and does not contribute
thermal or Johnson noise.

It is a common mistake to consider that an antenna always includes 290K
due to kTB in its radiation resistance. If that were the case, we would
never have need for receivers with Teq much less than 290K! Mind you, if
a directive antenna points at hot earth, then external noise will never
be much less than 290K, so the requirements for terrestrial shots will be
different to space shots.

Attenuation gives rise to noise, and feed system loss is no exception.

An antenna does receive noise power from its environment, lets call it
external noise, and that needs to be factored into a receive system for
an overall figure of merit.

The ratio Gain/Temperature is antenna gain divided by total equivalent noise temperature (internal and external) all referred to a common reference point (usually the antenna connector or w/g flange). It is an overall figure of merit, and if the power flux density (or field strength) at the receive antenna is known, then S/N can be calculated from that and G/T.

Hams tend to not use G/T.

>
> I think that's rounding differences and my using T0=290K rather than
> 289K as a reference.

The 289 was not the reference, it was the result of using 3.00000dB NF (I know you stated Noise Factor =2, but I used your rounded NF=3dB value).
...
> I find noise temperatures just as if not more intuitive than noise
> figures, and (to me) it's more obvious what's going on when you have a
> string of amplifiers.

That was my point. Dealing with K is like dealing with power (P=kTB).

>
>> You might find this little calculator interesting / helpful:
>> http://www.vk1od.net/calc/RxSensitivityCalc.htm .
>
> Looks nice, thanks!

Thanks.

There is a related calculator for deterimining the level of ambient noise when receiver noise figure is known, see http://www.vk1od.net/calc/anc.htm .

By and large, although lots of hams express an interest in weak signal working, they aren't very interested in noise... which is a key parameter determining whether a signal can be copied. I have asked scores of weak signal enthusiasts their ambient noise level, and to date, only one has answered (though not in absolute terms, but nevertheless had an appreciation of the issue).

Owen

1752. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:22:36 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD855369A098nonenowhere@61.9.191.5>
Source record: 16811

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:w%Oxl.49578$UQ6.37181@en-nntp-03.dc1.easynews.com:

> "Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
> news:u125$fEMILxJFARQ@ifwtech.co.uk...
>> An important misconception is about the role of "290K" as a reference
>> temperature. Contrary to what is stated above, this is *not* a
>> designer option ("usually 290K", implying that some other value could
>> be chosen).
>
> Well, Owen was using 289K and Wes says, "the noise figure concept has
> the drawback that it depends upon definition of a standard
> temperature, usually 290K." Hence, while I certainly accept that "the
> IEEE standard definition" is 290K, it seems to me that it's a bit of
> wishful thinking to suggest that no one has ever used a different
> reference temperature in their work.

Joel, you misunderstood my calc.

The 289K was the internal noise of the DUT with NF=3.00000dB. The reference
was (and must be) 290K.

Owen

1753. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:24:22 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD8558328D4nonenowhere@61.9.191.5>
Source record: 16876

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:8pPxl.79540$9j5.24933@en-nntp-01.dc1.easynews.com:

> "Richard Clark" <kb7qhc@comcast.net> wrote in message
> news:to4ds41471fk0d9m6v99c8pqsgntsftdqh@4ax.com...
>> Perhaps I should more blunt, but the quote I lifted only speaks to
>> two things: an antenna, and a claim for its signal to noise ratio.
>>
>> 60 dB ??????????????
>
> Originally I almost added something like, "(assume you're standing
> next to the transmitter)" :-)
>
> 60dB+ isn't unheard of for hilltop-to-hilltop microwave links though,
> is it? And one might obtain 50dB with regular TV antennas if they have
> a good line-of-sight to the transmitter and there aren't significant
> reflections, right?

It doesn't solve the problem.

You still haven't given enough information to determine the absolute
level of either signal or noise, and you need that to consider the impact
of the DUT's internal noise (which you know in absolute terms).

Owen

1754. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:36:59 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <JnTxl.13386$pr6.7000@flpi149.ffdc.sbc.com>
Source record: 16877

Tom Donaly wrote:
> What's the Z0 of a loading coil, Cecil?

Z0 and VF depend upon the geometry of the coil
and the frequency. A 75m Texas Bugcatcher coil
has a Z0 of ~3800 ohms and a VF of ~0.02. The
coil that w8ji used for his 3 nS "measurements"
has a Z0 of ~5300 ohms and a VF of ~0.033. I've
generated an EXCEL file that does the calculations:

http://www.w5dxp.com/CoilZ0VF.xls

I've also got a web page that explains why the
current phase in a standing-wave antenna cannot
be used to measure delay.

http://www.w5dxp.com/current2.htm

I have done the suggested bench experiments myself
and the results are nowhere near w8ji's results.
When traveling wave current is used instead of
standing wave current, the delay is obvious on a
dual-trace O'scope.

This is nothing new. It is based on the information
in the IEEE paper which someone presented years ago:

http://www.ttr.com/TELSIKS2001-MASTER-1.pdf
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1755. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:43:36 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD858C5DFAFAnonenowhere@61.9.191.5>
Source record: 16878

Roy Lewallen <w7el@eznec.com> wrote in
news:rN2dnf-Ppf1If1rUnZ2dnUVZ_u6dnZ2d@posted.easystreetonline:
...
>
> NEC network objects are two port networks described by a set of Y
> parameters -- see the NEC-2 documentation on the NT "card". When a
> transmission line is specified via a TL "card", the Y parameters
> appropriate for the specified line length and Z0 are calculated for a
> standard Y parameter network which is then used in the model. In the
> code, this is done in the NETWK subroutine between line labels 16 and
> 17.
>
> EZNEC v. 5.0 allows the user to specify a skin-effect proportional
> transmission line loss. It accomplishes this internally by
> appropriately modifying the network Y parameters.

I suspected as much from model behaviour.

My question is then, can the 'stub' in figure a) be replaced by a TL
element for a valid model of a)?

Owen

1756. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:52:31 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ywTxl.26960$ZP4.2869@nlpi067.nbdc.sbc.com>
Source record: 16879

Jim Kelley wrote:
> [A standing wave] doesn't really have a 'life' of it's own.

My point exactly, Jim. We may be closer than you think.

> Cecil - as the equation is written, the phase term IS position. The
> phase of the sine function changes with x.

My point exactly, Jim. We may be closer than you think.
Tom and Roy did NOT use position to determine the phase.
That is the entire point of my posting.

> The phase of a time varying function changes with time except in the
> special case of a 'standing wave' function, where it changes with position.

Again, my point exactly - something that (apparently)
neither w8ji or w7el wants to admit.

> Right. He could (and should) have gone on to say that standing waves
> don't really *DO* anything at all.

My point exactly! Now try to tell it to w8ji and w7el
who used primarily standing wave current to prove their
points.

> I still need you to explain what standing wave _current_ is, and, just
> as importantly how it phase shifts by *TRAVELING* through a coil.

My point exactly, Jim. We may be closer than you think.
I am the one who is saying that it doesn't phase shift
while traveling through a wire or a coil. W8JI and W7EL
apparently think that it does phase shift through a coil
and can therefore be used to measure the delay through
a coil. I am the one who disagrees with that concept.

You and I are on the same side, Jim. This reminds me of
the time someone else realized the gurus were wrong and
simply stopped posting in order to save guru face and
to avoid proving them wrong.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1757. Re: Biggest Loon on the Group - Taking a Poll

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:53:36 UTC
From: Roger Wiseman <rwiseman@yahoo.com>
Message-ID: <gq90eachp1@news.mixmin.net>
Source record: 16825
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

Charles Knott <charlesknott@nospam.com> wrote:
> You forgot the biggest one of all time
>
> LARDASS LLOYD DAVIES of Athens, AL
>
> Everyone remembers him faking his own death and posting as his pretend
> female cousin threatning to sue everyone here. Remember he was also
> "Prophet Davies" and "Brother Lloyd" ???/
>
>
I'm surprised nobody nominated me!

1758. Re: Biggest Loon on the Group - Taking a Poll

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 21:54:17 UTC
From: Roger Wiseman <rwiseman@yahoo.com>
Message-ID: <gq90ebchp2@news.mixmin.net>
Source record: 16826
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

Charles Knott <charlesknott@nospam.com> wrote:
> You forgot the biggest one of all time
>
> LARDASS LLOYD DAVIES of Athens, AL
>
> Everyone remembers him faking his own death and posting as his pretend
> female cousin threatning to sue everyone here. Remember he was also
> "Prophet Davies" and "Brother Lloyd" ???/
>
>
I'm surprised nobody nominated me!

1759. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 22:01:22 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <zKTxl.13387$pr6.10395@flpi149.ffdc.sbc.com>
Source record: 16880

Owen Duffy wrote:
> Radiation resistance is a virtual resistance and does not contribute
> thermal or Johnson noise.

Sounds like what Walter Maxwell has been saying
for decades.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1760. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 22:15:06 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <MRTxl.52775$UR4.4144@en-nntp-09.dc1.easynews.com>
Source record: 16881

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BD8558328D4nonenowhere@61.9.191.5...
> "Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
>> 60dB+ isn't unheard of for hilltop-to-hilltop microwave links though,
>> is it? And one might obtain 50dB with regular TV antennas if they have
>> a good line-of-sight to the transmitter and there aren't significant
>> reflections, right?
>
> It doesn't solve the problem.

I thought Richard's main problem was that 60dB is (relatively) unheard of in wireless systems. I agree with you 100% that not enough information was given to determine the absolute signal or noise levels.

1761. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 22:26:24 UTC
From: kb9rqz@yahoooo.com
Message-ID: <m33gs4p7hn3anp32j73rc8aj0bsjhchf49@4ax.com>
Source record: 16883
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

On Mon, 23 Mar 2009 12:40:07 -0400, Charles Knott
<charlesknott@nospam.com> wrote:

>You forgot the biggest one of all time
>
>LARDASS LLOYD DAVIES of Athens, AL
>
>Everyone remembers him faking his own death and posting as his pretend
>female cousin threatning to sue everyone here. Remember he was also
>"Prophet Davies" and "Brother Lloyd" ???/
get a life he has not been seen in a several years

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1762. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 22:28:51 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <I2Uxl.65216$rp7.2028@en-nntp-02.dc1.easynews.com>
Source record: 16884

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BD854F107060nonenowhere@61.9.191.5...
> An antenna's feedpoint impedance comprises radiation resistance and loss
> resistance.

OK.

> Radiation resistance is a virtual resistance and does not contribute
> thermal or Johnson noise.

Certainly, agreed.

But the loss resistance of the antenna itself is still contributing kTB,
right?

If I take a small loop of wire that has, say, a 100 milliohms of resistance,
it still generates kTB watts of thermal noise power. Why isn't this a
"problem?"

> Hams tend to not use G/T.

If doesn't seem like "receiver factor" (input intercept point/noise figure)
has caught on much either.

> By and large, although lots of hams express an interest in weak signal
> working, they aren't very interested in noise... which is a key parameter
> determining whether a signal can be copied.

I realized awhile back that noise is the primary factor that limits how far
you can transmit a signal and still recovery it successfully. (Granted, these
days it's often phase noise in oscillators rather than the noise figures in
amplifiers that determines this, but still.)

A discussion of noise sounds like a good topic for a ham fair... technically
there's little more complex than algebra (i.e., it's accessible to pretty much
everyone), but plenty of room for misapplication.

I'm learning a lot here...

---Joel

1763. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 22:44:57 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <KhUxl.49594$UQ6.21883@en-nntp-03.dc1.easynews.com>
Source record: 16885

Hi Richard,

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:il5gs4pqtsfqu3pg38j5u6sm0r4lasm63o@4ax.com...
> This is comparing elephants to oranges.

Not intentionally; I misunderstood your objections.

The whole point of the exercise was that just starting with an SNR doesn't provide enough information to do anything useful relating to noise figures, although I didn't realize when I posted it that specifying "an antenna" is way too vague.

> So, you came up with 60 dB, what was the noise level in?

To be consistent with what I was trying to concoct, the noise level would have been kTB with T=290K.

Here's a question for you: What's the noise output power of your run-of-the-mill RF signal generator (e.g., an HP 8594A/B/C)? I'm thinking the noise output power is *well* in excess of kTB (where T is the room temperature you're operating the generator in)?

---Joel

1764. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:00:04 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <c6bFswS0RByJFAOO@ifwtech.co.uk>
Source record: 16887

Joel Koltner wrote:
>"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message
>news:u125$fEMILxJFARQ@ifwtech.co.uk...
>> An important misconception is about the role of "290K" as a reference
>> temperature. Contrary to what is stated above, this is *not* a designer
>> option ("usually 290K", implying that some other value could be chosen).
>
>Well, Owen was using 289K and Wes says, "the noise figure concept has the
>drawback that it depends upon definition of a standard temperature, usually
>290K." Hence, while I certainly accept that "the IEEE standard definition" is
>290K, it seems to me that it's a bit of wishful thinking to suggest that no
>one has ever used a different reference temperature in their work.
>

Owen was responding to the following statement made by you:
>> amplifier with a power gain of 100 (20dB) and a noise factor of 2
>> (3dB), at the output of the amplifier my SNR will be 57dB. Easy
>> peasy,
>
To which Owen replied:
>The amplifier has an equivalent noise temperature (Teq) of 289K.

A noise factor of 2 is not exactly equal to a noise figure of 3dB.

If the amplifier has a noise factor of exactly 2, then its noise
temperature would be exactly 290K, because F = 1 + (T/290).

But if it has a noise figure of exactly 3dB, then by the same definition
its noise temperature would be 288.626etc K which rounds to 289K.

So Owen was not "using 289K" as an alternative reference temperature. He
was simply giving the correct answer to one of your two alternative
questions :-)

As for Wes's statement, I'm afraid that even in 1975 when originally
published, it was no longer correct for a US source to describe the
reference temperature for the definition of noise factor as "usually"
290K. Strike out the "usually".

All of these concepts originate from a classic 1944 IRE paper by Friis,
which recognized that noise factor and noise temperature must be related
by some arbitrary value of reference temperature - and that very same
paper suggests 290K. However, this was an arbitrary choice; at least in
principle, others were free to choose a different temperature, and I
think that is how the word "usually" crept in.

But in practice 290K gained widespread acceptance and by 1975 it had already been formally adopted by the IEEE. From that point forward, the standard reference temperature became 290K - and no other.

--

73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

1765. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:03:27 UTC
From: Jim-NN7K
Message-ID: <9wUxl.4140$Lr6.957@flpi143.ffdc.sbc.com>
Source record: 16888

Perhaps , might be related to the old dB Rnco Standard, in analog
microwave paths (for setting Muting (squelch)) with a 30 dB S/N ratio,
at a specified freq slot or channel in the bandwidth (think 1.8 MHz)?

Think gave close to 52 dB s/n ratio at the lowest frequency in the
baseband (order wire) . Jim NN7K

Joel Koltner wrote:
> "Owen Duffy" <none@no.where> wrote in message
> news:Xns9BD8558328D4nonenowhere@61.9.191.5...
>> "Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
>>> 60dB+ isn't unheard of for hilltop-to-hilltop microwave links though,
>>> is it? And one might obtain 50dB with regular TV antennas if they have
>>> a good line-of-sight to the transmitter and there aren't significant
>>> reflections, right?
>> It doesn't solve the problem.
>
> I thought Richard's main problem was that 60dB is (relatively) unheard of in
> wireless systems. I agree with you 100% that not enough information was given
> to determine the absolute signal or noise levels.
>
>

1766. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:08:25 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <Cq8CYpTpZByJFANB@ifwtech.co.uk>
Source record: 16891

Joel Koltner wrote:
>> Radiation resistance is a virtual resistance and does not contribute
>> thermal or Johnson noise.
>
>Certainly, agreed.
>
>But the loss resistance of the antenna itself is still contributing
>kTB, right?
>
>If I take a small loop of wire that has, say, a 100 milliohms of
>resistance, it still generates kTB watts of thermal noise power. Why
>isn't this a "problem?"
>

Because that noise power has a source impedance of 100 milliohms, which is dramatically mismatched to the input impedance of a normal receiver. This is explained in Wes Hayward's full-length textbook, 'Introduction to Radio Frequency Design' (now re-published by ARRL).

--

73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)
http://www.ifwtech.co.uk/g3sek

1767. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:10:22 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <zFUxl.57794$Yx2.37856@en-nntp-06.dc1.easynews.com>
Source record: 16889

Thanks for the clarifications, Ian. (OK, really, thanks for pointing out the numerous errors I made. :-))

"Ian White GM3SEK" <gm3sek@ifwtech.co.uk> wrote in message news:c6bFswS0RByJFAOO@ifwtech.co.uk...
> All of these concepts originate from a classic 1944 IRE paper by Friis,
> which recognized that noise factor and noise temperature must be related by
> some arbitrary value of reference temperature - and that very same paper
> suggests 290K.

It's interesting to me that, when I was in school, all the noise figure/temperature stuff was done without Friis's name ever coming up... whereas his name was prominently mentioned when discussing the path lose relations (based on distances, antenna gains, etc.)

> 73 from Ian GM3SEK 'In Practice' columnist for RadCom (RSGB)

Speaking of interesting things, I've always thought that you RSGB guys tend to produce books/articles/etc. at a rather higher technical level, on average, than the ARRL does. The first time I was at Dayton and stopped by a booth that George Dobbs was manning with various QRP kits and RSGB books, I must have dropped $100. :-)

---Joel

1768. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:13:15 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <T7CdnaBfLcYTilXUnZ2dnUVZ_t7inZ2d@posted.easystreetonline>
Source record: 16890

Owen Duffy wrote:
> Roy Lewallen <w7el@eznec.com> wrote in
> news:rN2dnf-Ppf1If1rUnZ2dnUVZ_u6dnZ2d@posted.easystreetonline:
> ...
>> NEC network objects are two port networks described by a set of Y
>> parameters -- see the NEC-2 documentation on the NT "card". When a
>> transmission line is specified via a TL "card", the Y parameters
>> appropriate for the specified line length and Z0 are calculated for a
>> standard Y parameter network which is then used in the model. In the
>> code, this is done in the NETWK subroutine between line labels 16 and
>> 17. . .
>
> I suspected as much from model behaviour.
>
> My question is then, can the 'stub' in figure a) be replaced by a TL
> element for a valid model of a)?
>
> Owen

No, it can't. The NEC two-port network object can't have any common mode current -- the current out of one terminal of a port is always exactly equal to the current into the other terminal of that port regardless of external connections, which means that common mode current is zero by definition. The wire stub, on the other hand, couples to external fields which can cause common mode current on the wires.

The only time you can substitute a transmission line (network) object for a wire transmission line is when the transmission line is carrying no common mode current. An example would be a transmission line connected to the center of a symmetrical dipole and positioned symmetrically with respect to the dipole so it gets equal coupling from both legs.

A coaxial line can be modeled as a combination of a transmission line (network) object and a wire, the former carrying the differential mode current and the latter the common mode current, as described in the EZNEC manual. This is possible because the two components are physically separated on a coax line. However, I don't know of any way to do the equivalent thing with a parallel-wire line because the two components aren't physically separated as they are on coax.

Roy Lewallen, W7EL

1769. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:18:16 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <il5gs4pqtsfqu3pg38j5u6sm0r4lasm63o@4ax.com>
Source record: 16882

On Mon, 23 Mar 2009 10:11:31 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>"Richard Clark" <kb7qhc@comcast.net> wrote in message
>news:to4ds41471fk0d9m6v99c8pqsgntsftdqh@4ax.com...
>> Perhaps I should more blunt, but the quote I lifted only speaks to two
>> things: an antenna, and a claim for its signal to noise ratio.
>>
>> 60 dB ??????????????
>
>Originally I almost added something like, "(assume you're standing next to the
>transmitter)" :-)
>
>60dB+ isn't unheard of for hilltop-to-hilltop microwave links though, is it?
>And one might obtain 50dB with regular TV antennas if they have a good
>line-of-sight to the transmitter and there aren't significant reflections,
>right?

This is comparing elephants to oranges. You haven't specified
anything that is noise related, you said nothing about antennas (exept
what might be presumed from vague associations), and receive and power
levels are wholly missing. As dB is a ratiometric relationship, you
have offered nothing to validate the ratio.

Hilltop-to-hilltop microwave links can be designed for a 60 dB snr
(one cannot call it gain, certainly); or 60 db directivity; however
hilltop-to-hilltop microwave links do not automagically qualify as
coming with that directivity if they are too close!

So, you came up with 60 dB, what was the noise level in? what was the
noise level out? What is the source of the noise in? What are you
loading the 1,000,000 * (S+N) into?

73's
Richard Clark, KB7QHC

1770. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:39:42 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD86C7556D45nonenowhere@61.9.191.5>
Source record: 16892

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:I2Uxl.65216$rp7.2028@en-nntp-02.dc1.easynews.com:

...
> But the loss resistance of the antenna itself is still contributing
> kTB, right?

Yes... but summing the contributions isn't trivial.

An alternative view is to consider the contribution of conductor loss and other losses in the antenna structure and feed, and treat the system as an ideal (lossless antenna) with a specified 'feed loss'.

My observation is that convention is the use the antenna connector or w/g flange as a reference point for such calcs. It may even be laid down in standards... but I am not sure. Someone else may know?

Notwithstanding that convention, I note the VK3UM tools seem to make their reference point a point on the space side of the antenna. That would give rise to a slighly different G/T figure.

>
> If I take a small loop of wire that has, say, a 100 milliohms of
> resistance, it still generates kTB watts of thermal noise power. Why
> isn't this a "problem?"

I don't know what you mean by "problem". I have explained above that it should be accounted for, and a method.
...
> A discussion of noise sounds like a good topic for a ham fair...
> technically there's little more complex than algebra (i.e., it's
> accessible to pretty much everyone), but plenty of room for
> misapplication.

I haven't been to ham fairs in your country, but here there are mostly focussed on exhanging junk (selling the junk bought at the last fair, and buying some different junk to sell at the next fair).

Noise is dealt with pretty well in text books, but text books aren't as popular as mags.

Complicating this in the real world is that receivers aren't perfectly linear, and measurements in a shielded room often have limited relevance to real life performance where the 'noise' due to intermodulation distortion is a significant issue... especially with a trend to avoiding front end loss (noise) by ditching front end selectivity.

Noise is an interesting topic.

I have just discovered an Agilent AN which discusses uncertainty in noise measurement. I am about to compare it to my proposition of a statistical estimate of noise measurement (sampling) uncertainty, see http://www.vk1od.net/measurement/noise/nmu.htm .

Owen

1771. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:45:48 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gq93fdmpp1@news.service.uci.edu>
Source record: 16886

Cecil Moore wrote:
> Jim Kelley wrote:
>> [A standing wave] doesn't really have a 'life' of it's own.
>
> My point exactly, Jim. We may be closer than you think.
>
>> Cecil - as the equation is written, the phase term IS position. The
>> phase of the sine function changes with x.
>
> My point exactly, Jim. We may be closer than you think.
> Tom and Roy did NOT use position to determine the phase.
> That is the entire point of my posting.
>
>> The phase of a time varying function changes with time except in the
>> special case of a 'standing wave' function, where it changes with
>> position.
>
> Again, my point exactly - something that (apparently)
> neither w8ji or w7el wants to admit.
>
>> Right. He could (and should) have gone on to say that standing waves
>> don't really *DO* anything at all.
>
> My point exactly! Now try to tell it to w8ji and w7el
> who used primarily standing wave current to prove their
> points.

>> I still need you to explain what standing wave _current_ is, and, just
>> as importantly how it phase shifts by *TRAVELING* through a coil.
>
> My point exactly, Jim. We may be closer than you think.
> I am the one who is saying that it doesn't phase shift
> while traveling through a wire or a coil. W8JI and W7EL
> apparently think that it does phase shift through a coil
> and can therefore be used to measure the delay through
> a coil. I am the one who disagrees with that concept.
>
> You and I are on the same side, Jim.

That's true more than you know, which is why I can't figure out why you keep claiming that someone has measured standing wave current phase shifts (whatever they are).

73, ac6xg

1772. Michael W Bryant and Lardass Lloyd Davies, biggest trolls in usenet history

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-23 23:59:06 UTC
From: Charles Knott <charlesknott@nospam.com>
Message-ID: <gq97of$vd9$1@news.motzarella.org>
Source record: 16893
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

Michael W Bryant lied about having a PhD

Lardass Lloyd Davies has lied about almost everything

1773. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 00:00:18 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <ooVxl.57899$Yx2.44978@en-nntp-06.dc1.easynews.com>
Source record: 16894

Hi Owen,

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BD86C7556D45nonenowhere@61.9.191.5...
> Yes... but summing the contributions isn't trivial.

OK.

> I don't know what you mean by "problem". I have explained above that it
> should be accounted for, and a method.

By "problem" I mean "the noise contribution from the loss resistance of the antenna is routinely ignored." -- Presumably because the background EM noise (coming in through the antenna's radiation resistance) often far exceeds it.

> I haven't been to ham fairs in your country, but here there are mostly
> focussed on exhanging junk (selling the junk bought at the last fair, and
> buying some different junk to sell at the next fair).

:-)

The larger ham fairs often have some reasonably "meaty" technical seminars (antenna design and modeling in, e.g., EZNEC is popular). Somewhat more focused conventions (e.g., Microwave Update) often end up with a fair amount of technical information as well.

But yes, there's always plenty of junk to be exchanged and junk food to be consumed.

eBay has diminished the number of true "deals" left at ham fairs, but they do still exist... including such relevant items as phase noise meters, LNAs, RF generators.

---Joel

1774. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 00:03:56 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <OrVxl.57905$Yx2.30178@en-nntp-06.dc1.easynews.com>
Source record: 16895

Ha... look at this: http://www.microwaveupdate.org/prgmactivities.php

"Noise figure testing w/probable network analysis"

There you go. Come on over from Oz, Owen, we'd love to have you!

:-)

---Joel

1775. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 00:10:45 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gq98e1$2gu$1@news.jpl.nasa.gov>
Source record: 16896

Joel Koltner wrote:
> Hi Richard,
>
> "Richard Clark" <kb7qhc@comcast.net> wrote in message
> news:il5gs4pqtsfqu3pg38j5u6sm0r4lasm63o@4ax.com...
>> This is comparing elephants to oranges.
>
> Not intentionally; I misunderstood your objections.
>
> The whole point of the exercise was that just starting with an SNR doesn't
> provide enough information to do anything useful relating to noise figures,
> although I didn't realize when I posted it that specifying "an antenna" is way
> too vague.
>
>> So, you came up with 60 dB, what was the noise level in?
>
> To be consistent with what I was trying to concoct, the noise level would have
> been kTB with T=290K.
>
> Here's a question for you: What's the noise output power of your
> run-of-the-mill RF signal generator (e.g., an HP 8594A/B/C)? I'm thinking the
> noise output power is *well* in excess of kTB (where T is the room temperature
> you're operating the generator in)?
>

This can be answered by looking at the specs for the generator.

For example, an Agilent N5181 looks like the noise floor is around
-160dBc/Hz well away from the carrier (e.g. >10MHz). That's probably
representative of the overall noise floor with the carrier at some level
like 0dBm. If we take that level, then it's 14 dB above kTB of -174 dBm/Hz

1776. Re: Check to see if AIOE news server is blocking rec.radio.amateur.antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 01:46:32 UTC
From: Fred McKenzie <fmmck@aol.com>
Message-ID: <fmmck-1DD3C6.21463023032009@news.mixmin.net>
Source record: 16827

In article <8+cP8LFmGPxJFwiW@g3ohx.demon.co.uk>,
Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

> Excuse the test, but this cannot be carried out on a test NG.

Ian-

I saw 3 or 4 of your posts on AIOE, but only one showed up here on
Mixmin. I think this was the first one, dated Sat Mar 21, 2009 9:54 AM.
(I assume the time is where I am, Eastern Daylight Time in the US.)

Fred

1777. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 01:55:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Y3Xxl.21934$c45.12842@nlpi065.nbdc.sbc.com>
Source record: 16897

Jim Kelley wrote:
> That's true more than you know, which is why I can't figure out why you
> keep claiming that someone has measured standing wave current phase
> shifts (whatever they are).

I previously published the currents in a 20m dipole
with 21 segments. Here they are again. Can you comprehend
why there is only a maximum phase shift of 4.54 degrees
in 180 degrees of antenna? That is NOT the characteristic
of traveling wave current. That is the characteristic of
primarily standing wave current which has constant phase.

Roy reported that the phase shift across a loading coil wasn't
measurable which is a true statement because the standing wave
current indeed doesn't change phase across a coil or through a
wire. But he then used that same evidence to support w8ji's
ridiculous 3 nS delay through a 75m mobile loading coil when
there is no relationship between standing wave current phase
and the delay through a loading coil. Traveling wave current
must be used to measure the delay through a loading coil,
something I have been saying for years.

EZNEC+ ver. 4.0

20m dipole 3/23/2009 8:43:06 PM

---------- CURRENT DATA ----------

Frequency = 14.2 MHz

Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Open .09631 -4.54
2 .2561 -4.25
3 .39868 -3.93
4 .5289 -3.60
5 .64603 -3.25
6 .74868 -2.86
7 .83539 -2.43
8 .90483 -1.94
9 .95592 -1.38
10 .98795 -0.68
11 feedpoint 1 0.00
12 .98795 -0.68
13 .95592 -1.38
14 .90483 -1.94

15 .83539 -2.43
16 .74868 -2.86
17 .64602 -3.25
18 .5289 -3.60
19 .39868 -3.93
20 .2561 -4.25
21 Open .09631 -4.54
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1778. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 02:05:31 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD8852DC5328nonenowhere@61.9.191.5>
Source record: 16898

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:KhUxl.49594$UQ6.21883@en-nntp-03.dc1.easynews.com:

...
> Here's a question for you: What's the noise output power of your
> run-of-the-mill RF signal generator (e.g., an HP 8594A/B/C)? I'm
> thinking the noise output power is *well* in excess of kTB (where T is
> the room temperature you're operating the generator in)?

Most SSGs will have a large attenuation at the output, and as the output
level is reduced (attenuation increased), the noise power density away from
the carrier approaches kT/Hz.

Owen

1779. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 03:22:04 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD89228ACCDCnonenowhere@61.9.191.5>
Source record: 16899

Roy Lewallen <w7el@eznec.com> wrote in
news:T7CdnaBfLcYTilXUnZ2dnUVZ_t7inZ2d@posted.easystreetonline:

> Owen Duffy wrote:
...
>> My question is then, can the 'stub' in figure a) be replaced by a TL
>> element for a valid model of a)?
>>
>> Owen
>
> No, it can't. The NEC two-port network object can't have any common
> mode
...

Thanks Roy.

Is NEC capable of modelling the configuration shown at
http://www.vk1od.net/lost/King-22.3b.png (which is the same type of
problem as my figure b)?

My attempts to model b) by modelling a plain conductor and inserting a
load in the segment where the open end of the coax stub would otherwise
be, does not result in an in-phase current distribution.

King discusses the coaxial stub and suggests that the conductors need to
be significantly large in diameter, and the stub length would be less
than a quarter wave for in-phase radiator currents.

Owen

1780. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 05:45:01 UTC
From: kb9rqz@yahoooo.com
Message-ID: <jpsgs497p7cp6965j5vlekqp3pqb2u479d@4ax.com>
Source record: 16900
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

On Mon, 23 Mar 2009 19:59:06 -0400, Charles Knott
<charlesknott@nospam.com> wrote:

>Michael W Bryant lied about having a PhD
ok why did we need to know that even if it is the case

>
>Lardass Lloyd Davies has lied about almost everything
so what?

which are you?

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1781. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 06:56:47 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <0qOdnaGj7oOsGVXUnZ2dnUVZ_rOdnZ2d@posted.easystreetonline>
Source record: 16801

Owen Duffy wrote:
>
> Thanks Roy.
>
> Is NEC capable of modelling the configuration shown at
> http://www.vk1od.net/lost/King-22.3b.png (which is the same type of
> problem as my figure b)?
>
> My attempts to model b) by modelling a plain conductor and inserting a
> load in the segment where the open end of the coax stub would otherwise
> be, does not result in an in-phase current distribution.
>
> King discusses the coaxial stub and suggests that the conductors need to
> be significantly large in diameter, and the stub length would be less
> than a quarter wave for in-phase radiator currents.
>
> Owen

Your description of the model is correct. Technically, the wire representing the outside of the coax (which in the model is located where the coax line is) should be the diameter of the shield, as we've discussed before. The stepped wire diameter error of NEC-2 might, however, result in less accurate results by doing this than by leaving the diameter the same as the other wires. Experiments with your earlier b) model showed that the transmission line object characteristics have almost no effect on the wire currents when it's inserted at a point of very low current, and that it doesn't result in in-phase current distribution. That will be true here also at frequencies where the current is very low near the open end of the stub.

Roy Lewallen, W7EL

1782. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 08:10:30 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <bA0yl.12842$hc1.1728@flpi150.ffdc.sbc.com>
Source record: 16802

Cecil Moore wrote:
> Tom Donaly wrote:
>> What's the Z0 of a loading coil, Cecil?
>
> Z0 and VF depend upon the geometry of the coil
> *and the frequency*. A 75m Texas Bugcatcher coil
> has a Z0 of ~3800 ohms and a VF of ~0.02. The
> coil that w8ji used for his 3 nS "measurements"
> has a Z0 of ~5300 ohms and a VF of ~0.033. I've
> generated an EXCEL file that does the calculations:
>
> http://www.w5dxp.com/CoilZ0VF.xls
>
> I've also got a web page that explains why the
> current phase in a standing-wave antenna cannot
> be used to measure delay.
>
> http://www.w5dxp.com/current2.htm
>
> I have done the suggested bench experiments myself
> and the results are nowhere near w8ji's results.
> When traveling wave current is used instead of
> standing wave current, the delay is obvious on a
> dual-trace O'scope.
>
> This is nothing new. It is based on the information
> in the IEEE paper which someone presented years ago:
>
> http://www.ttr.com/TELSIKS2001-MASTER-1.pdf

Still using the Tesla coil fella's ideas, are you? A frequency
dependent Z0 is a good trick. What happens when you double the
length of the coil? Does the Z0 stay the same? What if the coil is
infinite? Can you make a quarter wave shorted stub with it? If you
make it a half wavelength long - keeping in mind the velocity factor -
will the impedance looking into the coil equal the impedance of
the load? How do you attach a load to it?
73,
Tom Donaly, KA6RUH

1783. Re: Biggest Loon on the Group - Taking a Poll

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 10:39:35 UTC
From: Roger Wiseman <rwiseman@yahoo.com>
Message-ID: <49c8b869$0$3337$6e1ede2f@read.cnntp.org>
Source record: 16803
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

"Charles Knott" <charlesknott@nospam.com> wrote in message
news:gq8e1bpqk1@news.motzarella.org...
> You forgot the biggest one of all time
>
> LARDASS LLOYD DAVIES of Athens, AL
>
> Everyone remembers him faking his own death and posting as his pretend
> female cousin threatning to sue everyone here. Remember he was also
> "Prophet Davies" and "Brother Lloyd" ???/
>
>
I'm really surprised that nobody nominated me!

1784. Re: Michael W Bryant and Lardass Lloyd Davies, biggest trolls in usenet history

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 10:48:54 UTC
From: Roger Wiseman <rwiseman@yahoo.com>
Message-ID: <49c8ba98$0$3336$6e1ede2f@read.cnntp.org>
Source record: 16804
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

"Charles Knott" <charlesknott@nospam.com> wrote in message
news:gq97of$vd9$1@news.motzarella.org...
> Michael W Bryant lied about having a PhD
>
> Lardass Lloyd Davies has lied about almost everything
>
I wasn't lying when I said I was behind the curtains.

1785. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 11:00:18 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BD8DFD8EA319nonenowhere@61.9.191.5>
Source record: 16805

Roy Lewallen <w7el@eznec.com> wrote in
news:0qOdnaGj7oOsGVXUnZ2dnUVZ_rOdnZ2d@posted.easystreetonline:

> Owen Duffy wrote:
...
>> Is NEC capable of modelling the configuration shown at
>> http://www.vk1od.net/lost/King-22.3b.png (which is the same type of
>> problem as my figure b)?

A point made by King is that if the three half waves are in phase,
radiation resistance will be quite high (one third current required for
same distant field strength), around 316 ohms against 105 ohms for three
half waves not-in-phase. Presumably these figures are for free space.

This effect is certainly observable in models using my Fig a) (though
half the respective resistances due to the vertical over perfect ground).

The feedpoint impedance looks like it might provide a hint as to whether
currents are actually in-phase.

Exploring that thought, an example (to some extent) of King's Fig 22.3b
is the W5GI Mystery Antenna (see
http://www.w5gi.com/images/w5gimsteryantennaschematic.gif) which claims
to be three half waves in phase at 14.2MHz. It is very similar to the
diagram above in King though I note that the phasing sections are 105° in
electrical length.

The W5GI is fed with a half wave (at 14.2MHz) of 300 ohm line, then 34'
of RG8X. W5GI reports impedance looking into the RG8X as 42+/-j18. That
suggests the load on the RG8X is 31+j2 or 70-j18. The feedpoint impedance
should be about the same value due to the half wave of 300 ohm low loss
line. Neither impedance is within a bull's roar of 316+j0, and are so low
as to question whether the three half waves are indeed in-phase. (The
highest impedance that would yeild 42+/-j18 on a short length of RG8X
would be around 80+j0, closer to the not-in-phase configuration than the
in-phase configuration).

W5GI's reported feed impedance seem inconsistent with three half waves in
phase, and questions whether the phasing arrangement works as suggested.

Thoughts?

Owen

1786. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 12:26:21 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Nj4yl.14950$W06.3008@flpi148.ffdc.sbc.com>
Source record: 16806

Tom Donaly wrote:
> Still using the Tesla coil fella's ideas, are you?

The title of the article is "RF Coils, ..." The block
diagram of a Tesla coil with a top hat is identical
to a 160m mobile antenna with top hat.

> A frequency dependent Z0 is a good trick.

It's no trick - just based on empirical measurements
as explained in the IEEE paper. Measurements proved
that the Z0 of a coil varies with wavelength so
wavelength is included in the empirical formula.
I observed that phenomenon during my own experiments.

> What happens when you double the length of the coil?

Same thing as doubling the length of a stub. At a fixed
frequency, the delay through the coil is (roughly) doubled.

> Does the Z0 stay the same? What if the coil is infinite?

Length of the coil does not appear in the empirical
formula for Z0 of a coil. Coil diameter, TPI, and
wavelength are the variables. Wire diameter would
obviously have some effect but is not included in
the empirical formula.

> Can you make a quarter wave shorted stub with it?

Yes, but you need a ground plane close by. Mininec ground will do.
Here's a 75m Texas Bugcatcher coil loaded with its Z0 impedance
modeled over Mininec ground.

http://www.w5dxp.com/coil505u.EZ

The current phase shift through the coil is clearly visible
by displaying "Load Dat". The delay through the coil (EZNEC)
is roughly proportional to the phase shift, i.e. about 38
degrees. The coil is 0.5 feet long with a calculated VF
of 0.02 so the calculated phase shift (without EZNEC) is
about 36 degrees. That's pretty close agreement.
> If you make it a half wavelength long - keeping in mind the velocity
factor -
> will the impedance looking into the coil equal the impedance of the load?
> How do you attach a load to it?

Here's the Texas Bugcatcher coil modeled at the first (1/4WL)
self-resonant frequency of 7.96 MHz:

http://www.w5dxp.com/coil505s.EZ

I have not experimented with 1/2WL self-resonance. The above
file seems to be 1/2WL self-resonant at about 19.2 MHz but
the 75m Texas Bugcatcher coil, at 19.2 MHz, does not meet
the guidelines for validity given in the IEEE article.

Reference:
http://www.w5dxp.com/current2.htm
http://www.w5dxp.com/current.htm
http://www.w5dxp.com/CoilZ0VF.xls
http://www.ttr.com/TELSIKS2001-MASTER-1.pdf
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1787. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 12:39:55 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <uw4yl.2726$im1.910@nlpi061.nbdc.sbc.com>
Source record: 16807

Owen Duffy wrote:
> The feedpoint impedance looks like it might provide a hint as to whether
> currents are actually in-phase.

At a 1/4WL monopole's resonant frequency, the forward antenna
current and reflected antenna current are in phase. The two
component voltages are 180 degrees out of phase. The feedpoint
resistance is [|Vfor|-|Vref|]/[|Ifor|+|Iref|] where these are
antenna voltages and currents on a standing-wave antenna.

If the feedpoint impedance is purely resistive it appears
that the two component waves must be in phase or 180 degrees
out of phase.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1788. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 17:19:46 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <TC8yl.77399$PS5.41053@en-nntp-07.dc1.easynews.com>
Source record: 16808

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gq98e1$2gu$1@news.jpl.nasa.gov...
> For example, an Agilent N5181 looks like the noise floor is
> around -160dBc/Hz well away from the carrier (e.g. >10MHz). That's probably
> representative of the overall noise floor with the carrier at some level
> like 0dBm. If we take that level, then it's 14 dB above kTB of -174 dBm/Hz

Thanks. Presumably then if you dial the carrier power down much below -14dBm
you're then going to have a -174dBm/Hz noise floor due to the output
attenuators as Owen mentioned...

---Joel

1789. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 18:22:39 UTC
From: kb9rqz@yahoooo.com
Message-ID: <j69is4pdc2h4mpe3p1a3hhhbliig9r5p6t@4ax.com>
Source record: 16809
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

On Tue, 24 Mar 2009 06:48:54 -0400, "Roger Wiseman"
<rwiseman@yahoo.com> wrote:

>
>"Charles Knott" <charlesknott@nospam.com> wrote in message
>news:gq97of$vd9$1@news.motzarella.org...
>> Michael W Bryant lied about having a PhD
>>
>> Lardass Lloyd Davies has lied about almost everything
>>
>I wasn't lying when I said I was behind the curtains.
>
get a life fake stl;ler

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1790. Michael W Bryant vs Lloyd Davies? Who is the biggest troll of all time?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 18:56:19 UTC
From: Charles Knott <charlesknott@nospam.com>
Message-ID: <gqbacq$ha6$3@news.motzarella.org>
Source record: 16810
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

Close between those two

1791. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 19:17:39 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <playl.65489$rp7.59706@en-nntp-02.dc1.easynews.com>
Source record: 16812

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BD855369A098nonenowhere@61.9.191.5...
> Joel, you misunderstood my calc.

Yeah, Ian pointed that out to me. My apologies...

1792. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 21:26:11 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gqbflt$5na$1@news.service.uci.edu>
Source record: 16813

Cecil Moore wrote:

> Roy reported that the phase shift across a loading coil wasn't
> measurable which is a true statement because the standing wave
> current indeed doesn't change phase across a coil or through a
> wire.

He wasn't measuring "standing wave current", whatever that is. You
should probably examine his test setup more carefully.

> But he then used that same evidence to support w8ji's
> ridiculous 3 nS delay through a 75m mobile loading coil when
> there is no relationship between standing wave current phase
> and the delay through a loading coil. Traveling wave current
> must be used to measure the delay through a loading coil,
> something I have been saying for years.

And after all those years you still haven't provided any measurements
that support what you've been saying. And as far as I know, neither has
anyone else. But I'm happy to stand corrected.

73, ac6xg

1793. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 23:02:43 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <d3pis49ldv9ncj5rnkpvujhq97adi8m83o@4ax.com>
Source record: 16814

On Mon, 23 Mar 2009 23:39:42 GMT, Owen Duffy <none@no.where> wrote:

>My observation is that convention is the use the antenna connector or w/g
>flange as a reference point for such calcs. It may even be laid down in
>standards... but I am not sure. Someone else may know?

Hi Owen,

What you describe is typically called the "reference plane" in
metrology. This is a term that is found in many standard methods of
RF measurement. Most often it is a point that is neutral to the
introduction of new variables (and concommittant error). To achieve
this neutrality, it must be an access point that is reproducible -
hence the association with the connector or flange as these are
controlled points of access. Connectors can be measured separately to
validate their contribution to error and variability as they can
typically be mated to instrumentation whose own connectors have been
validated by more rigorous means.

There are other issues with the reference plane, one of which is heat
transfer through it which should ring bells here.

73's
Richard Clark, KB7QHC

1794. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 23:08:46 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <4Kdyl.52915$UR4.20391@en-nntp-09.dc1.easynews.com>
Source record: 16816

Hi Richard,
"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:8amis41kqrqi4visl4l67lbbf9l2laqvt6@4ax.com...
> Deep space communications proceeds many dB below the noise floor
> enabled through technology that has become ubiquitous in cell phones -
> Spread Spectrum.

Aka, "averaging" (for the direct-sequence style of spread spectrum, ala CDMA or GPS).

Still, AFAIK all that averaging can do is to effectively lower the noise floor at the expense of bandwidth (effectively data rate), and the more benefit you'd like to get from that averaging, the more important your sample points become, which gets back to needing as little phase noise as possible on your oscillators. Is there some other angle here?

---Joel

1795. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 23:18:15 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <8amis41kqrqi4visl4l67lbbf9l2laqvt6@4ax.com>
Source record: 16815

On Mon, 23 Mar 2009 15:28:51 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>I realized awhile back that noise is the primary factor that limits how far
>you can transmit a signal and still recovery it successfully. (Granted, these
>days it's often phase noise in oscillators rather than the noise figures in
>amplifiers that determines this, but still.)

Hi Joel,

This is an antiquated consideration limited to amplitude modulation,
the same specie as noise. I suppose there are noise products that
fall into the phase/frequency category that lay claim to "primary
factor," but that is a rather limited appeal.

Deep space communications proceeds many dB below the noise floor
enabled through technology that has become ubiquitous in cell phones -
Spread Spectrum. I have developed pulsed measurement applications for
which any single pulse has a poor S+N/N, but through repetition
improves S+N/N response with the square root increase of samples
taken.

73's
Richard Clark, KB7QHC

1796. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-24 23:47:52 UTC
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Message-ID: <lieyl.30232$DP1.22272@attbi_s22>
Source record: 16817

> Deep space communications proceeds many dB below the noise floor
> enabled through technology that has become ubiquitous in cell phones -
> Spread Spectrum. I have developed pulsed measurement applications for
> which any single pulse has a poor S+N/N, but through repetition
> improves S+N/N response with the square root increase of samples
> taken.
>
> 73's
> Richard Clark, KB7QHC

And others call it autocorrelation?

W4ZCB

1797. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 00:24:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <dReyl.12899$hc1.7257@flpi150.ffdc.sbc.com>
Source record: 16818

Jim Kelley wrote:
> He wasn't measuring "standing wave current", whatever that is.

Sorry Jim, of course he was, since standing wave current
is the primary current that exists on standing wave
antennas like the antenna Roy used to measure his currents.

You keep saying "whatever that is" when it is well
defined in most any antenna book. That you don't
understand standing wave current on standing wave
antennas is just a statement of ignorance - no
offense intended - apparently Roy is just as ignorant.

Perhaps you should study and understand the
difference between a standing wave antenna like
a dipole and a traveling wave antenna like a
terminated Rhombic. Balanis has a good discussion
of such. Here's a quote: "Standing wave antennas,
such as the dipole, can be analyzed as traveling
wave antennas with waves propagating in opposite
directions (forward and backward) and represented
by traveling wave currents..."

An inverted-V dipole can be converted from a
standing wave antenna to a traveling wave antenna
by terminating the ends with a load connected to
mininec ground. Here is an inv_V and a terminated
inv_V modeled in EZNEC. Please look at the "Currents"
display until you understand the meaning of the
phase angles.

http://www.w5dxp.com/inv_v.EZ (standing wave antenna)

Phase angle of the current varies by 2.72 degrees
along each 90 degrees of antenna. This is the current
that Roy used.

http://www.w5dxp.com/inv_vT.EZ (traveling wave antenna)

Phase angle of the current varies by 90 degrees
along each 90 degrees of antenna. This is the current
that Roy should have used.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1798. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 01:45:14 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <153js4593tco53t9f726eapa77b26vst3j@4ax.com>
Source record: 16821

On Tue, 24 Mar 2009 23:47:52 GMT, "Harold E. Johnson"
<W4ZCB@mchsi.com> wrote:

>> Deep space communications proceeds many dB below the noise floor
>> enabled through technology that has become ubiquitous in cell phones -
>> Spread Spectrum. I have developed pulsed measurement applications for
>> which any single pulse has a poor S+N/N, but through repetition
>> improves S+N/N response with the square root increase of samples
>> taken.
>>
>> 73's
>> Richard Clark, KB7QHC
>
>And others call it autocorrelation?

Which?

73's
Richard Clark, KB7QHC

1799. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 01:54:12 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <701js4lgrngrhinqdean8bobae4hvb4li1@4ax.com>
Source record: 16820

On Tue, 24 Mar 2009 16:08:46 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>Still, AFAIK all that averaging can do is to effectively lower the noise floor
>at the expense of bandwidth (effectively data rate), and the more benefit
>you'd like to get from that averaging, the more important your sample points
>become, which gets back to needing as little phase noise as possible on your
>oscillators. Is there some other angle here?

That was a curious objection to a solution answering a problem as it
was specifically stated. Are there angles to showing noise being
overcome by several means when you offered none?

>>>noise is the primary factor that limits how far
>>>you can transmit a signal and still recovery it successfully.

Again, "qualified" statements such as that should be able to support
themselves with quantifiables.

What "noise" were you speaking about when through the course of this
thread it has most often been confined to kTB than, say, cross-talk,
splatter, spurs, whistlers, howlers, jamming, and a host of others?

What constitutes "successfully?" Is this a personal sense of well
being, or is it supported by a metric?

What constitutes "far"ness? At one point you offered from hilltop to
hilltop with antennas combining to 60dB directivity (but curiously
expressed as SNR). Lacking any quantifiable of what size hills,
shouting can be competitive at some range, and reasonably assured of
being understood to the first order of approximation without need for
averaging.

Spread Spectrum is so ubiquitous that waiting on anticipated exotic
failures of phase noise, on the face of an overwhelming absence of
problems, is wasted time indeed. Communication problems via the Cell
technology are more likely packets going astray on the network than
through the air. Perhaps it is with the clock chips of network
routers where phase noise fulfill this perception of sampling error -
but even there, collision is more likely and the system merely
abandons retries for the sake of economy not for overwhelming noise.

As to sampling error via the net. Time was when 16x over-sampling for
RS-232 was the norm. Going to one sample and transmitting at the base
frequency didn't help until quadrature and more complex phase systems
emerged. Same infrastructure, same noise, faster and more efficient
(not less) communication. Shannon wrote about the bit error rate in

the presence of noise, modulation techniques have improved throughput,
not lowered it.

73's
Richard Clark, KB7QHC

1800. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 02:10:21 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gqc0ar$f63$1@news.service.uci.edu>
Source record: 16819

Cecil Moore wrote:
> Jim Kelley wrote:
>> He wasn't measuring "standing wave current", whatever that is.
>
> Sorry Jim, of course he was, since standing wave current
> is the primary current that exists on standing wave
> antennas like the antenna Roy used to measure his currents.

The only current flowing on an antenna is the current traveling from one end to the other.

> You keep saying "whatever that is" when it is well
> defined in most any antenna book.

I have the ARRL Antenna Book. Where might I find 'Standing Wave Current' defined, or at least a description of how to measure it? Perhaps it's in a section about 'Standing Wave Power'?

> That you don't
> understand standing wave current on standing wave
> antennas is just a statement of ignorance - no
> offense intended - apparently Roy is just as ignorant.

Sounds authoratative. I wonder if anyone is buying it?

73, ac6xg

1801. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 06:00:14 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <5b3fe9f6-e6a0-42e6-8c59-66730e3233b7@p11g2000yqe.googlegroups.com>
Source record: 16822

On Mar 24, 9:45 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Tue, 24 Mar 2009 23:47:52 GMT, "Harold E. Johnson"
>
> <W4...@mchsi.com> wrote:
> >> Deep space communications proceeds many dB below the noise floor
> >> enabled through technology that has become ubiquitous in cell phones -
> >> Spread Spectrum. I have developed pulsed measurement applications for
> >> which any single pulse has a poor S+N/N, but through repetition
> >> improves S+N/N response with the square root increase of samples
> >> taken.
>
> >> 73's
> >> Richard Clark, KB7QHC
>
> >And others call it autocorrelation?
>
> Which?
>
> 73's
> Richard Clark, KB7QHC

Radar people for one, also known as pulse-pair radar where data from
multiple returns are compared. The data can be from multiple hits on a
target using the same radar or the data can come from multiple radars.
MDS level improvement below the noise level can be achieved. Its also
used for transmitting data.One other specific use I am familiar with
involves transmition of radar data via radio. So the radar uses it as
well as the mode of transmission of the radar data from the radar to
the user.

Jimmie

1802. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 07:29:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <8gjjs4tm5il6ulkk50isuj09d02v33u8r4@4ax.com>
Source record: 16823

On Fri, 20 Mar 2009 19:46:53 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>Say I have an antenna that I know happens to provide an SNR
>of 60dB...

Returning to one of the few quantifiables, it would be instructive to judge why it is so astonishing as a point to begin a dive into the discussion of noise figure. In other posts related to deep space probe's abilities to recover data from beneath the noise floor, much less cell phones to operate in a sea of congestion, I encountered the economic objection that such methods cost too much - expense of bandwidth.

Well, not having seen anything more than yet another qualification - how much is "too much?" It is time to draw back and ask how much is enough? What would NOT be too expensive? Replacing qualitative objections with quantitative objections sometimes evokes a horse laugh when the magnitude of the qualitative issue ceases to exhibit much quality.

I won't open this round of enquiry with exotic Spread Spectrum which portends the objection of phase issues with clocks (even knowing that such modulation techniques automatically incorporate slipping to adjust for just such problems). Instead I will slip back some 60 years to the seminal paper published by Claude Shannon who figured this all out (with H.W. Bode) and quote some metrics for various coding (modulation) schemes. Search for "Communication in the Presence of Noise." When you google, search in its image data space for the cogent chart that I will be drawing on, below. Obtaining the paper may take more effort (or simply email me for a copy).

Starting with BPSK and a S+N/N of roughly 10.5 dB, the bit error rate is one bad bit in one million bits. This is probably the most plug-ordinary form of data communication coming down the pike; so one has to ask:
"is this good enough?"
If not, then "SNR of 60dB" is going to have to demand some really astonishing expectations to push system designers to ante up the additional 49.5 dB.

Well, let's say those astonishing expectations are as wild as demanding proof that you won't contribute to global warming if you chip an ice cube off of a glacier - such are the issues of scale when you chug the numbers for BPSK.

OK, so as to not melt down the planet, we step up the complexity of modulation to better than the last solution for "good enough." Let's take the Voyager probes of the deep planets where at a S+N/N of 2.53 dB (in what is called 8 dB coding gain) the same error rate of 1 bit in 1 million is achieved. One has to ask:
"is this good enough?"
If not, then "SNR of 60dB" is going to have to demand some really astronomical expectations.

OK, perhaps this is a problem demanding really deep pockets that exceed the several $Trillion being spent on the past 8 years of Reaganomic neglect. (Why else pound the desk for that extra 57 dB?) Let's go the full distance to the Shannon limit. It will give us that same 1 bit error for every 1,000,000 at -1.5 dB S+N/N. If this isn't below the noise floor, then the problem demanding 60 dB will never find the solution to positively answer:
"is this good enough?"

73's
Richard Clark, KB7QHC

1803. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 07:41:36 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <obnjs4tpn576v5ptl216nuh187k6ootvcu@4ax.com>
Source record: 16824

On Tue, 24 Mar 2009 23:00:14 -0700 (PDT), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>On Mar 24, 9:45ï¿½pm, Richard Clark <kb7...@comcast.net> wrote:
>> On Tue, 24 Mar 2009 23:47:52 GMT, "Harold E. Johnson"
>>
>> <W4...@mchsi.com> wrote:
>> >> Deep space communications proceeds many dB below the noise floor
>> >> enabled through technology that has become ubiquitous in cell phones -
>> >> Spread Spectrum. ï¿½I have developed pulsed measurement applications for
>> >> which any single pulse has a poor S+N/N, but through repetition
>> >> improves S+N/N response with the square root increase of samples
>> >> taken.
>>
>> >> 73's
>> >> Richard Clark, KB7QHC
>>
>> >And others call it autocorrelation?
>>
>> Which?
>>
>> 73's
>> Richard Clark, KB7QHC
>
>Radar people for one, also known as pulse-pair radar where data from
>multiple returns are compared. The data can be from multiple hits on a
>target using the same radar or the data can come from multiple radars.
>MDS level improvement below the noise level can be achieved. Its also
>used for transmitting data.One other specific use I am familiar with
>involves transmition of radar data via radio. So the radar uses it as
>well as the mode of transmission of the radar data from the radar to
>the user.
>
>
>
>
>Jimmie

My question of Which? was directed to Harold's broad brush painting
two different illustrations. Spread spectrum incorporates cross
correlation through slipping the gold code to find a flash. My design
performed a form of forced auto correlation (much like your radar
example, perhaps) but reduced noise as a function of that noise being
uncorrelated to the pulse.

Perhaps this is all saying the same thing at a very fundamental level.
However, I would guess this all hinges on the reduction of noise
following the square root of the ratio of the sample counts.
Conceptually, the distinction between auto or cross correlation is
really of minor consequence.

73's
Richard Clark, KB7QHC

1804. Re: Check to see if AIOE news server is blocking rec.radio.amateur.antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 09:49:08 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <GLzRBYRU4fyJFw$z@g3ohx.demon.co.uk>
Source record: 16828

In message <fmmck-1DD3C6.21463023032009@news.mixmin.net>, Fred McKenzie
<fmmck@aol.com> writes
>In article <8+cP8LFmGPxJFwiW@g3ohx.demon.co.uk>,
> Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>
>> Excuse the test, but this cannot be carried out on a test NG.
>
>Ian-
>
>I saw 3 or 4 of your posts on AIOE, but only one showed up here on
>Mixmin. I think this was the first one, dated Sat Mar 21, 2009 9:54 AM.
>(I assume the time is where I am, Eastern Daylight Time in the US.)
>
Ummm...
I could see all of my posts via AIOE to rec.radio.amateur.antenna, so
obviously AIOE aren't doing a blanket block on all posts to this NG
(like they did some time ago, to uk.radio.amateur).

It has been suggested in aioe.news.helpdesk that it is
rec.radio.amateur.policy where most of the abuse happens. I've had a
quick dip into it and yes - there do seem to be the usual collection of
cross-posting of ne'er-do-wells. Maybe AIOE are selectively blocking
only certain news servers or posts from certain ISPs.

As a further check, I'll temporarily switch to AIOE to send this.
--
Ian

1805. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 12:28:33 UTC
From: "J. Mc Laughlin" <jcm@power-net.net>
Message-ID: <ScudnRZJBJ3vvlfUnZ2dnUVZ_s_inZ2d@bright.net>
Source record: 16829

Dear Group:

Three conclusions/observations:
1. Noise temperature is the unambiguous way of specifying/describing the noise performance of a receiver.

2. The paper by Costas in December 1959 Proc of IRE is also valuable to this discussion. Be sure to read the follow-up comments.

3. I heard with my own ears Shannon observe that, from an engineering point of view, if one did not have an occasional transmission error one was using a wasteful amount of power. Shannon was a Michigan boy. 60 dB SNR??? Not in fly-over land.

73, Mac N8TT

--
J. McLaughlin; Michigan, USA
Home: JCM@power-net.net
"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:8gjjs4tm5il6ulkk50isuj09d02v33u8r4@4ax.com...
> On Fri, 20 Mar 2009 19:46:53 -0700, "Joel Koltner"
> <zapwireDASHgroups@yahoo.com> wrote:
>
>>Say I have an antenna that I know happens to provide an SNR
>>of 60dB...
>
> Returning to one of the few quantifiables, it would be instructive to
> judge why it is so astonishing as a point to begin a dive into the
> discussion of noise figure. In other posts related to deep space
> probe's abilities to recover data from beneath the noise floor, much
> less cell phones to operate in a sea of congestion, I encountered the
> economic objection that such methods cost too much - expense of
> bandwidth.
>
> Well, not having seen anything more than yet another qualification -
> how much is "too much?" It is time to draw back and ask how much is
> enough? What would NOT be too expensive? Replacing qualitative
> objections with quantitative objections sometimes evokes a horse laugh
> when the magnitude of the qualitative issue ceases to exhibit much
> quality.
>
> I won't open this round of enquiry with exotic Spread Spectrum which
> portends the objection of phase issues with clocks (even knowing that
> such modulation techniques automatically incorporate slipping to
> adjust for just such problems). Instead I will slip back some 60

> years to the seminal paper published by Claude Shannon who figured
> this all out (with H.W. Bode) and quote some metrics for various
> coding (modulation) schemes. Search for "Communication in the
> Presence of Noise." When you google, search in its image data space
> for the cogent chart that I will be drawing on, below. Obtaining the
> paper may take more effort (or simply email me for a copy).
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> Starting with BPSK and a S+N/N of roughly 10.5 dB, the bit error rate
> is one bad bit in one million bits. This is probably the most
> plug-ordinary form of data communication coming down the pike; so one
> has to ask:
> "is this good enough?"
> If not, then "SNR of 60dB" is going to have to demand some really
> astonishing expectations to push system designers to ante up the
> additional 49.5 dB.
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> Well, let's say those astonishing expectations are as wild as
> demanding proof that you won't contribute to global warming if you
> chip an ice cube off of a glacier - such are the issues of scale when
> you chug the numbers for BPSK.
>
> OK, so as to not melt down the planet, we step up the complexity of
> modulation to better than the last solution for "good enough." Let's
> take the Voyager probes of the deep planets where at a S+N/N of 2.53
> dB (in what is called 8 dB coding gain) the same error rate of 1 bit
> in 1 million is achieved. One has to ask:
> "is this good enough?"
> If not, then "SNR of 60dB" is going to have to demand some really
> astronomical expectations.
>
> OK, perhaps this is a problem demanding really deep pockets that
> exceed the several $Trillion being spent on the past 8 years of
> Reaganomic neglect. (Why else pound the desk for that extra 57 dB?)
> Let's go the full distance to the Shannon limit. It will give us that
> same 1 bit error for every 1,000,000 at -1.5 dB S+N/N. If this isn't
> below the noise floor, then the problem demanding 60 dB will never
> find the solution to positively answer:
> "is this good enough?"
>
> 73's
> Richard Clark, KB7QHC

1806. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 12:45:01 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jHpyl.22991$Ws1.21309@nlpi064.nbdc.sbc.com>
Source record: 16830

Jim Kelley wrote:
> The only current flowing on an antenna is the current traveling from one
> end to the other.

Since standing waves cannot exist without the underlying component traveling waves, to avoid conceptual blunders, one needs to deal directly with the component traveling waves. Your statement is based on a purely mathematical shortcut which exists only in the human brain, not in reality, and obscures the actual speed-of-light physics necessary for an EM wave to even exist.

The current can be artificially parsed the way you are doing it but that parsing leads to the very misconception under which you are laboring. The same thing happened with w8ji's and w7el's "measurements" involving delays through loading coils. The actual component physics, as explained in any reasonably technical antenna book is:

Total current = forward current + reflected current

Itot = Ifor + Iref (phasor addition)

Reference: "Antenna Theory", Balanis, 2nd edition

Balanis, page 488:
"The sinusoidal current distribution of long open-ended linear antennas is a standing wave constructed by two waves of equal amplitude and 180 degrees phase difference at the open end traveling in opposite directions along its length. ... The current and voltage distributions on open-ended wire antennas are similar to the standing wave patterns on open-ended transmission lines."

Balanis, page 489:
"Standing wave antennas, such as the dipole, can be analyzed as traveling wave antennas with waves propagating in opposite direstions (forward and backwards) and and represented by traveling wave currents, If and Ib in Figure 10.1a."

In a standing wave antenna, e.g. a 1/2WL dipole, there exists a forward wave that gives up about 10% of its energy content to radiation. The remaining 90% of the wave encounters the open end of the antenna and is reflected. So, just as in the case of an open-circuit

stub, we have a forward current component flowing in
one direction and a reflected current component flowing
in the other direction. Many of the mistakes and mis-
conceptions about antennas are based on your false
assertion above.

> I have the ARRL Antenna Book.

:-) The ARRL Antenna Book doesn't even have "traveling
wave antennas" in its index. It does state: "Unterminated
long-wire antennas are often referred to as 'standing
wave antennas'". Please reference a reasonably technical
antenna book like "Antennas", by Kraus. "A sinusoidal
current distribution (on a standing wave antenna) may be
regarded as the standing wave produced by two uniform
(unattenuated) traveling waves of equal amplitude moving
in opposite directions along the antenna."

> I wonder if anyone is buying it?

It doesn't matter if anyone is buying it. What matters
is technical validity. Your first statement above is
technical invalid. Given the free space description of
standing waves of light given by Hecht in "Optics", your
assertion above would lead one to believe that the photons
comprising the standing wave of light must be at rest even
though that's an impossibility (except in the human mind).

Here's what a couple of references say about standing waves.
"Electrical Communication", by Albert:

"Such a plot of voltage is usually referred to as a
voltage standing wave or as a *stationary wave*.
Neither of these terms is particularly descriptive
of the phenomenon. A plot of effective values of
voltage, appearing as in Fig. 6(e), *is not a wave*
in the usual sense. However, the term "standing wave"
is in widespread use."

"College Physics", by Bueche and Hecht:

"These ... patterns are called *standing waves*, as
compared to the propagating waves considered above.
They might better not be called waves at all, since
they do not transport energy and momentum."
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1807. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 16:24:30 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gqdlru$e0l$1@news.jpl.nasa.gov>
Source record: 16833

Joel Koltner wrote:
> Hi Richard,
> "Richard Clark" <kb7qhc@comcast.net> wrote in message
> news:8amis41kqrqi4visl4l67lbbf9l2laqvt6@4ax.com...
>> Deep space communications proceeds many dB below the noise floor
>> enabled through technology that has become ubiquitous in cell phones -
>> Spread Spectrum.
>
> Aka, "averaging" (for the direct-sequence style of spread spectrum, ala CDMA
> or GPS).

Actually no. Deep Space Communication (at least that done by NASA) doesn't use any form of spread spectrum. The details can be found in various CCSDS documents (http://www.ccsds.org/), but, basically, at rates below about 4kbps, they take the data and modulate a subcarrier at 16 kHz, then use that to phase modulate a carrier. The mod index is usually such that there's a lot of residual carrier so that the receiver can acquire the narrow band carrier.

A typical acquisition threshold signal requirement is about -154 dBm at the receiver input. Naturally, you can do better.

The lowest rate is a bit less than 8 bps and the receiver bandwidth is in the few tens of Hz range. They also do a LOT of coding, so they get VERY close to the Shannon limit for the channel property. (We, who build the hardware, comment that the coding guys get all excited about eking out another 0.01dB closer to the theoretical limit, and then the spacecraft guys add a foot of coax with a loss of 1/2dB)

BTW, In deep space work, the spacecraft radio usually generates the return carrier so that it has a fixed frequency relationship with the received signal (e.g. fTX = 880/749 * fRX) and is phase coherent. This allows very precise range and range rate measurements to be made, particularly if one measures the received(on earth) signal relative to the (earth)transmitted signal over a time span of, say, 1000 seconds.

Spreading codes ARE used for ranging in GPS and with TDRSS. They were also used for ranging with Apollo, but after that, they went back to sequential tone ranging (because PN codes took too long to acquire) for deep space. PN ranging is coming back into favor. Bepi-Colombo, a mission to Mercury, is using PN ranging for instance.

>
> Still, AFAIK all that averaging can do is to effectively lower the noise floor
> at the expense of bandwidth (effectively data rate), and the more benefit
> you'd like to get from that averaging, the more important your sample points

> become, which gets back to needing as little phase noise as possible on your
> oscillators. Is there some other angle here?

In the deep space comm world, there's two basic strategies.. get a real quiet quartz oscillator (called a USO: Ultra Stable Oscillator) to generate your carrier on the spacecraft; or, regenerate the carrier from the received signal (coherent transponder). The signal on the ground is generated by multiplication from a hydrogen maser, so it's VERY good, phase noise wise. In numbers, a good quality transponder at Ka-band might have an additive Allan deviation of 1E-15 in 100 seconds. To put that in perspective, at 30GHz, you're talking about a phase shift of 0.01 degrees averaged over 100 seconds. Just measuring the performance of the box is a challenge.

Prestage (at JPL) is working on a flight capable trapped mercury ion clock that will provide a high performance frequency reference, and would allow a lot of interesting things to be done.

>
> ---Joel
>
>

1808. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 16:44:45 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <3ctyl.50198$UQ6.13774@en-nntp-03.dc1.easynews.com>
Source record: 16831

Hi Richard,

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:701js4lgrngrhinqdean8bobae4hvb4li1@4ax.com...
> That was a curious objection to a solution answering a problem as it
> was specifically stated. Are there angles to showing noise being
> overcome by several means when you offered none?

My means were "reduce the noise figure of the amplifiers in your front-end" and "reduce the phase noise of your oscillators/PLLs/etc." "Averaging the input" is a clear winner here too.

> What "noise" were you speaking about when through the course of this
> thread it has most often been confined to kTB than, say, cross-talk,
> splatter, spurs, whistlers, howlers, jamming, and a host of others?

For the sake of this thread, it's been just thermal and oscillator nose since these are -- AIUI -- what limit traditional analog (AM/FM/PM) communication systems. Most of the rest of what you've listed are certainly real-world problems, but they're (hopefully) somewhat transient in nature and -- as AIUI -- often all lumped into a single "fade margin" when designing the an end-to-end system. E.g., the transmission medium is often modeled with something no more complex than, say, the Friis equation and Rayleigh fading. I do realize that in the real world things like spurs or splatter can end up being very expensive (frequency changes, high-order/high-power filters, etc.) if you're co-locating your radio with many others on a hilltop -- I've been told that if you take a run-of-the-mill radio to a place like Mt. Diablo in California, many of them just fall over from front end overload and cease to function at all.

> What constitutes "successfully?" Is this a personal sense of well
> being, or is it supported by a metric?

Usually something like a 12dB SINAD standard is used for analog modulation schemes or a 1e-3 bit-error rate for digital modulation techniques (before any error correction coding is applied).

> Spread Spectrum is so ubiquitous that waiting on anticipated exotic
> failures of phase noise, on the face of an overwhelming absence of
> problems, is wasted time indeed.

It's not ubiquitous on amateur radio, though.

But yeah, commercially it certainly is, and my understanding is that phase noise in oscillators in a Big Deal for cell sites, requiring much more strigent standards than what a 2m/440 HT's oscillator is likely to provide. The network timing of cell sites is sync'd to atomic clocks via

GPS-disciplined oscillators system as well.

> As to sampling error via the net. Time was when 16x over-sampling for
> RS-232 was the norm.

I've meet many RS-232 routines that don't do any over-sampling at all -- I've even written a few. :-) For most applications the SNR of an RS-232 signal is typically well in excess of 20dB if you don't exceed the original specs for cable length of bit rate. (Granted, as least historically before RS-232 starting falling out of use, it was probably one of the most "abused" electrical interconnect standards in the world, and 16x oversampling certainly would let you go further than simple-minded receivers with no oversampling.)

---Joel

1809. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 16:48:46 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <T9tyl.15295$D32.8685@flpi146.ffdc.sbc.com>
Source record: 16832

Jim Kelley wrote:
> The only current flowing on an antenna is the current traveling from one
> end to the other.

Let's assume you are correct. Here are a few questions:

1. Given a 90 degree monopole fed against an infinite
ground plane, what would be the phase at the top of the
antenna compared to the phase at the feedpoint for any
instant in time?

2. Why would the feedpoint impedance of a 1/4WL monopole
be more than a magnitude less than the feedpoint impedance
of an infinite monopole?

3. Where does the above current go when it hits the open-
circuit at the top of the monopole?

4. Why is the total energy in the E-field at the top of the
monopole so high?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1810. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 18:11:48 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <Htuyl.85662$9j5.54071@en-nntp-01.dc1.easynews.com>
Source record: 16834

Hi Richard,

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:8gjjs4tm5il6ulkk50isuj09d02v33u8r4@4ax.com...
> In other posts related to deep space
> probe's abilities to recover data from beneath the noise floor, much
> less cell phones to operate in a sea of congestion, I encountered the
> economic objection that such methods cost too much - expense of
> bandwidth.

I don't think anyone stated they cost "too much," just that there is a cost in increased bandwidth, and bandwidth isn't free.

In general the spread spectrum processing gain is proportional to the bandwidth increase over what the original data stream would require without any spreading.

> Well, not having seen anything more than yet another qualification -
> how much is "too much?"

Definitely depends on "the market." You can bet the cell phone developers have sophisticated models of possible radios and the channel and associate with each piece a cost (e.g., bandwidth = $xx/Hz, improving close-in phase noise of master oscillator = $xx/dBc, etc.), and then run a lot of simulations to try to make the average cost of each bit as low as possible. Of course, there are many variables that are impossible to ascertain precisely such as how quickly uptake of new cell services (e.g., 3G data) will be in a given area (as this drives how many towers you put there initially and how quickly you roll out more), how fast fab yields will improve that lower your costs and improve RF performance, etc.

> Starting with BPSK and a S+N/N of roughly 10.5 dB, the bit error rate
> is one bad bit in one million bits. This is probably the most
> plug-ordinary form of data communication coming down the pike; so one
> has to ask:
> "is this good enough?"
> If not, then "SNR of 60dB" is going to have to demand some really
> astonishing expectations to push system designers to ante up the
> additional 49.5 dB.

Why Richard, I'm starting to think you don't spend thousands of dollars per meter on your speaker cables. :-) Hey, see this:
http://www.noiseaddicts.com/2008/11/most-expensive-speaker-cable-world-audioquest-audiophile/ -
- $7,000/m speaker cables! Includes, "Spread Spectrum Technology!" :-)

That being said, back in the analog broadcast TV days (oh, wait, not all of them are gone yet, but they will be soon), I believe that "studio quality" NTSC is considered to be >50dB SNR (for the video), whereas people would start to notice the noise if the received signal's SNR had dropped below 30ish dB, and 10dB produces an effectively unwatchable pictures. This reinforces your point that "good enough" is highly subjective depending on how the "information" transmitted is actually used.

You make a good point that the Shannon limit gives a good quantitative measure of how you go about trading off bandwidth for SNR (effectively power if your noise if fixed by, e.g., atmospheric noise coming into an antenna). Shannong doesn't give any hint as to how to achieve the limits specified, although I've read that with fancy digital modulation techniques and "turbo" error-correcting codes, one can come very close to the limit.

---Joel

1811. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 18:19:01 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <qAuyl.81940$PS5.15732@en-nntp-07.dc1.easynews.com>
Source record: 16835

"J. Mc Laughlin" <jcm@power-net.net> wrote in message
news:ScudnRZJBJ3vvlfUnZ2dnUVZ_s_inZ2d@bright.net...
> 2. The paper by Costas in December 1959 Proc of IRE is also valuable to
> this discussion. Be sure to read the follow-up comments.

Is that available publicly anywhere?

> 3. I heard with my own ears Shannon observe that, from an engineering point
> of view, if one did not have an occasional transmission error one was using
> a wasteful amount of power. Shannon was a Michigan boy. 60 dB SNR??? Not
> in fly-over land.

I think the counterpoint is that, particularly in mobile environments, you often needed huge fade margins, e.g., 20-40dB wasn't uncommon for pager systems. Hence in systems designed to have, say, an "average" of 30dB SNR (same audio quality as the telephone system, assuming 3kHz bandwidth as well), it wouldn't be surprising to occasionally find you're actually getting 60dB SNR in the most ideal scenario.

Although perhaps designing for an average of 30dB SNR is a little high for a paging system... anyone know? (I'm thinking 20dB might be a bit more realistic.)

---Joel

1812. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 18:20:09 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <xBuyl.55810$UR4.15639@en-nntp-09.dc1.easynews.com>
Source record: 16836

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:qAuyl.81940$PS5.15732@en-nntp-07.dc1.easynews.com...
> Is that available publicly anywhere?

What I really meant here was, "Is that available *to download from the
Internet* publicly anywhere?"

1813. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 18:22:49 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <%Duyl.81941$PS5.53125@en-nntp-07.dc1.easynews.com>
Source record: 16837

That's great information, Jim, thanks!

1814. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 20:46:22 UTC
From: kb9rqz@yahoooo.com
Message-ID: <b06ls4h40r6072m3tfjc7q9e5tbft27165@4ax.com>
Source record: 16839
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

On Tue, 24 Mar 2009 14:56:19 -0400, Charles Knott
<charlesknott@nospam.com> wrote:

>Close between those two
no spamer you win hands down

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

1815. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 21:13:20 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <S7xyl.66918$rp7.51600@en-nntp-02.dc1.easynews.com>
Source record: 16840

Hi Richard,

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:4v7ls4lbq6og4knuj7p50unc5cg3tpbqjn@4ax.com...
>>I don't think anyone stated they cost "too much," just that there is a cost
>>in
>>increased bandwidth, and bandwidth isn't free.
> Um, this last statement seems to be hedging by saying the same thing
> in reverse order.

No, they really are different. What costs too much for me might very not cost
too much for the military or NASA, for instance.

> It would be more compelling if you simply stated the cost for ANY
> market.

The original example was meant to be more of a "textbook" problem, hence the
lack of elaboration on the specifics of the "market" involved.

> I would suspect that "studio quality" observes other characteristics
> of the signal.

Agreed, I would too.

> A multipath reception could easily absorb a
> considerable amount of interfering same-signal to abyssmal results. It
> would take a very sophisticated "noise" meter to perform the correct
> S+N/N.

Yep, very true -- I think this is why you see people legtimately complaining
about the quality of their cable TV even though the cable installation tech
whips out his SINAD meter and verifies it meets spec; the quality of a
transmission can't always be boiled down to just one number.

> The "Turbo" codes are achievable in silicon with moderate effort. A
> work going back a dozen years or more can be found at:
> http://sss-mag.com/G3RUH/index2.html

Great link, thanks!

---Joel

1816. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 21:29:07 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <VsSdnUxUxq60P1fUnZ2dnUVZ_rrinZ2d@posted.easystreetonline>
Source record: 16841

Owen Duffy wrote:
> Roy Lewallen <w7el@eznec.com> wrote in
> news:0qOdnaGj7oOsGVXUnZ2dnUVZ_rOdnZ2d@posted.easystreetonline:
>
>> Owen Duffy wrote:
> ...
>>> Is NEC capable of modelling the configuration shown at
>>> http://www.vk1od.net/lost/King-22.3b.png (which is the same type of
>>> problem as my figure b)?
>
> A point made by King is that if the three half waves are in phase,
> radiation resistance will be quite high (one third current required for
> same distant field strength), around 316 ohms against 105 ohms for three
> half waves not-in-phase. Presumably these figures are for free space.
> . . .

I looked up the section in King, Mimno, and Wing and was pretty disappointed. It's one of my favorite references, and I usually find the explanations clear. But the description of that antenna is pretty vague, with considerable hand waving ("[Operation of coaxial stubs] is much less satisfactory than that with the open-wire stubs. . ." without explaining why). And in the explanation of the open-wire stubs, the authors seem to state that the wires must carry purely differential currents. And their models (Fig. 22-4) do show purely differential coupling from the antenna to the stubs.

I speculate that they really didn't understand how these antennas worked, had discovered that the coaxial sleeve versions didn't work or at least didn't work as well -- and didn't show the proper impedance --, but didn't fully understand why. King, in particular, was and is one of the giants of antenna theory, and leaves us a lifetime of brilliant insight and rigorous mathematical analysis. But at least at the time that book was published, they lacked the modeling tools we have today.

> This effect is certainly observable in models using my Fig a) (though
> half the respective resistances due to the vertical over perfect ground).
>
> The feedpoint impedance looks like it might provide a hint as to whether
> currents are actually in-phase.

It surely does. Given the currents on and locations of the end wires, the modification to the center wire can be calculated from mutual coupling considerations. And I think this is a clue that led King, Mimno, and Wing to conclude that something was amiss with the coaxial version.

> Exploring that thought, an example (to some extent) of King's Fig 22.3b
> is the W5GI Mystery Antenna (see
> http://www.w5gi.com/images/w5gimsteryantennaschematic.gif) which claims
> to be three half waves in phase at 14.2MHz. It is very similar to the
> diagram above in King though I note that the phasing sections are 105ï¿½ in
> electrical length.
>
> The W5GI is fed with a half wave (at 14.2MHz) of 300 ohm line, then 34'
> of RG8X. W5GI reports impedance looking into the RG8X as 42+/-j18. That
> suggests the load on the RG8X is 31+j2 or 70-j18. The feedpoint impedance
> should be about the same value due to the half wave of 300 ohm low loss
> line. Neither impedance is within a bull's roar of 316+j0, and are so low
> as to question whether the three half waves are indeed in-phase. (The
> highest impedance that would yeild 42+/-j18 on a short length of RG8X
> would be around 80+j0, closer to the not-in-phase configuration than the
> in-phase configuration).
>
> W5GI's reported feed impedance seem inconsistent with three half waves in
> phase, and questions whether the phasing arrangement works as suggested.
>
> Thoughts?

I doubt that it does.

Roy Lewallen, W7EL

1817. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 21:30:12 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <4v7ls4lbq6og4knuj7p50unc5cg3tpbqjn@4ax.com>
Source record: 16838

On Wed, 25 Mar 2009 11:11:48 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>Hi Richard,
>
>"Richard Clark" <kb7qhc@comcast.net> wrote in message
>news:8gjjs4tm5il6ulkk50isuj09d02v33u8r4@4ax.com...
>> In other posts related to deep space
>> probe's abilities to recover data from beneath the noise floor, much
>> less cell phones to operate in a sea of congestion, I encountered the
>> economic objection that such methods cost too much - expense of
>> bandwidth.
>
>I don't think anyone stated they cost "too much," just that there is a cost in
>increased bandwidth, and bandwidth isn't free.

Um, this last statement seems to be hedging by saying the same thing
in reverse order.

>> Well, not having seen anything more than yet another qualification -
>> how much is "too much?"
>
>Definitely depends on "the market."

It would be more compelling if you simply stated the cost for ANY
market. Qualified statements are suitable for Madison Avenue to sell
cheese, but it doesn't make for an informed cost-based decision.

>That being said, back in the analog broadcast TV days (oh, wait, not all of
>them are gone yet, but they will be soon), I believe that "studio quality"
>NTSC is considered to be >50dB SNR (for the video), whereas people would start
>to notice the noise if the received signal's SNR had dropped below 30ish dB,
>and 10dB produces an effectively unwatchable pictures. This reinforces your
>point that "good enough" is highly subjective depending on how the
>"information" transmitted is actually used.

I would suspect that "studio quality" observes other characteristics
of the signal. A multipath reception could easily absorb a
considerable amount of interfering same-signal to abyssmal results. It
would take a very sophisticated "noise" meter to perform the correct
S+N/N.

>You make a good point that the Shannon limit gives a good quantitative measure
>of how you go about trading off bandwidth for SNR (effectively power if your
>noise if fixed by, e.g., atmospheric noise coming into an antenna). Shannong
>doesn't give any hint as to how to achieve the limits specified, although I've

>read that with fancy digital modulation techniques and "turbo"
>error-correcting codes, one can come very close to the limit.

The "Turbo" codes are achievable in silicon with moderate effort. A
work going back a dozen years or more can be found at:
http://sss-mag.com/G3RUH/index2.html
(consult the adjoining pages for fuller discussion)

73's
Richard Clark, KB7QHC

1818. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 21:45:33 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <2Cxyl.85670$9j5.12487@en-nntp-01.dc1.easynews.com>
Source record: 16843

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:a7als4d8iq1losa78sp1uk328foic2kgjs@4ax.com...
> Which is no more complex than setting 4 register bits - I wouldn't
> call that a "routine," however.
>> -- I've
>>even written a few. :-)
> Why more than one? Were the rest undersampling routines?

These were software RS-232 receivers, so you make use of whatever timers, edge interrupts, etc. that you have sitting around to first the start bit, load up a timer to then trigger in (what should be) the middle of the bit time for the sample, etc. I've written pretty much the same routines a small handful of times on different CPUs and in different languages.

The first ones I wrote were on ~1MIP CPUs in assembly and were limited to about 2400bps full-duplex if you were also trying to run a reasonably responsive terminal emulator (e.g., wanted to still have 50% of the CPU available for the emulator), whereas more recently I've written them on ~20MIP CPUs in C and can easily do 9600bps full-duplex with only a small impact on CPU usage.

---Joel

1819. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 22:03:24 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BDA5C215F7DDnonenowhere@61.9.191.5>
Source record: 16844

Hi Roy,

Roy Lewallen <w7el@eznec.com> wrote in
news:VsSdnUxUxq60P1fUnZ2dnUVZ_rrinZ2d@posted.easystreetonline:

> Owen Duffy wrote:
>> Roy Lewallen <w7el@eznec.com> wrote in
>> news:0qOdnaGj7oOsGVXUnZ2dnUVZ_rOdnZ2d@posted.easystreetonline:
>>
>>> Owen Duffy wrote:
>> ...
>>>> Is NEC capable of modelling the configuration shown at
>>>> http://www.vk1od.net/lost/King-22.3b.png (which is the same type
>>>> of problem as my figure b)?
>>
>> A point made by King is that if the three half waves are in phase,
>> radiation resistance will be quite high (one third current required
>> for same distant field strength), around 316 ohms against 105 ohms
>> for three half waves not-in-phase. Presumably these figures are for
>> free space. . . .
>
> I looked up the section in King, Mimno, and Wing and was pretty
> disappointed. It's one of my favorite references, and I usually find
> the explanations clear. But the description of that antenna is pretty
> vague, with considerable hand waving ("[Operation of coaxial stubs] is
> much less satisfactory than that with the open-wire stubs. . ."
> without explaining why). And in the explanation of the open-wire

This lesser mortal was encouraged that he noted the difference, but there really was no explanation. My feeling is that to note the difference but to be unable to explain it, other than nebuluous conditions like the coaxial tubes must be large diameter ratio, is incomplete... a problem yet to be solved.

I have come to the conclusion that the coaxial tubes are not simply a relocation of a TL as popularly explained. Over the years, I have accumulated a few projects that were works of art, but didn't work properly... and they all used coaxial phasing sections.

> stubs, the authors seem to state that the wires must carry purely
> differential currents. And their models (Fig. 22-4) do show purely
> differential coupling from the antenna to the stubs.
>
> I speculate that they really didn't understand how these antennas
> worked, had discovered that the coaxial sleeve versions didn't work or
> at least didn't work as well -- and didn't show the proper impedance

> --, but didn't fully understand why. King, in particular, was and is
> one of the giants of antenna theory, and leaves us a lifetime of
> brilliant insight and rigorous mathematical analysis. But at least at
> the time that book was published, they lacked the modeling tools we
> have today.

Understood... but, I think after our discussion on this, NEC is not up to the task, it may take a more advanced EM field modelling tool.

My suspicion is that NEC's shortfall is that a TL element does not properly represent the coaxial stub and its interaction with the other elements near resonance, though well away from resonance, it is possible that it may be quite ok. King raises the issues of diameter ratios, and the difference with whether the stub is inboard or outboard of the o/c end... but it is not resolved quantitatively.

>
>> This effect is certainly observable in models using my Fig a) (though
>> half the respective resistances due to the vertical over perfect
>> ground).
>>
>> The feedpoint impedance looks like it might provide a hint as to
>> whether currents are actually in-phase.
>
> It surely does. Given the currents on and locations of the end wires,
> the modification to the center wire can be calculated from mutual
> coupling considerations. And I think this is a clue that led King,
> Mimno, and Wing to conclude that something was amiss with the coaxial
> version.
>
>> Exploring that thought, an example (to some extent) of King's Fig
>> 22.3b is the W5GI Mystery Antenna (see
>> http://www.w5gi.com/images/w5gimsteryantennaschematic.gif) which
>> claims to be three half waves in phase at 14.2MHz. It is very similar
>> to the diagram above in King though I note that the phasing sections
>> are 105° in electrical length.
>>
>> The W5GI is fed with a half wave (at 14.2MHz) of 300 ohm line, then
>> 34' of RG8X. W5GI reports impedance looking into the RG8X as
>> 42+/-j18. That suggests the load on the RG8X is 31+j2 or 70-j18. The
>> feedpoint impedance should be about the same value due to the half
>> wave of 300 ohm low loss line. Neither impedance is within a bull's
>> roar of 316+j0, and are so low as to question whether the three half
>> waves are indeed in-phase. (The highest impedance that would yeild
>> 42+/-j18 on a short length of RG8X would be around 80+j0, closer to
>> the not-in-phase configuration than the in-phase configuration).
>>
>> W5GI's reported feed impedance seem inconsistent with three half
>> waves in phase, and questions whether the phasing arrangement works
>> as suggested.

>>
>> Thoughts?
>
> I doubt that it does.

Now W5GI does introduce his antenna with the statement "A multi-band wire antenna that performs exceptionally well even though it confounds antenna modeling software".

I know that is almost always a harbinger of bunk, the proverbial "Danger Will Robinson...", but in fairness, it does appear that one modelling package, NEC, cannot adequately model the coaxial arrangement near resonance, though in his antenna, the coax section would be resonant around 12MHz and King suggests it ought to be much shorter (resonant well above 14MHz).

That is not to say there aren't other BS warnings in the W5GI explanation of operation, or claims of performance.

Thanks for your comments, I find this an interesting subject.

Owen

1820. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 22:31:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <a7als4d8iq1losa78sp1uk328foic2kgjs@4ax.com>
Source record: 16842

On Wed, 25 Mar 2009 09:44:45 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>> As to sampling error via the net. Time was when 16x over-sampling for
>> RS-232 was the norm.
>
>I've meet many RS-232 routines that don't do any over-sampling at all

Which is no more complex than setting 4 register bits - I wouldn't
call that a "routine," however.

> -- I've
>even written a few. :-)

Why more than one? Were the rest undersampling routines?

Fuzzy-232? That copyrighted form of communication is an information
network layer supporting Cecil's (r) "standing wave current" (c)
explanation with answers that appear first, tailor-fitted to the
strawman question that follows - otherwise known as the Sub-optimal
Conjugated Hypothesis Information Transform (SCHIT) routine found in
quantum babbelizers everywhere. Discarding random bytes improves the
intelligibility and will whiten teeth.

73's
Richard Clark, KB7QHC

1821. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 23:22:42 UTC
From: "J. Mc Laughlin" <jcm@power-net.net>
Message-ID: <Co-dnU67u-JdIVfUnZ2dnUVZ_vyWnZ2d@bright.net>
Source record: 16846

Dear Joel Koltner (no call sign):

I know of no site where the classic paper may be downloaded. The paper had a significant influence on how people thought about modulation and frequency allocation. "Shannon, Poison (I can not think how to spell his name) and the Radio Amateur" is the title of the paper. A good library should be able to get you a copy. The same issue had a paper on small, loaded cavities, which became the norm for front end selectivity in VHF communication receivers.

Regards, Mac N8TT

--
J. McLaughlin; Michigan, USA
Home: JCM@power-net.net
"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
news:xBuyl.55810$UR4.15639@en-nntp-09.dc1.easynews.com...
> "Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
> news:qAuyl.81940$PS5.15732@en-nntp-07.dc1.easynews.com...
>> Is that available publicly anywhere?
>
> What I really meant here was, "Is that available *to download from the
> Internet* publicly anywhere?"
>
>

1822. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-25 23:29:44 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <K7zyl.65416$Yx2.25207@en-nntp-06.dc1.easynews.com>
Source record: 16847

Thanks Mac, I'll take a look next time I'm near a university library. (I'm in southern Oregon and there aren't any engineering schools down here...)

---Joel (KE7CDV)

1823. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 00:07:38 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <vlhls4t90lhnnf8joadrj3u0gtp8cuai79@4ax.com>
Source record: 16845

On Wed, 25 Mar 2009 14:45:33 -0700, "Joel Koltner"
<zapwireDASHgroups@yahoo.com> wrote:

>These were software RS-232 receivers, so you make use of whatever timers, edge
>interrupts, etc. that you have sitting around to first the start bit, load up
>a timer to then trigger in (what should be) the middle of the bit time for the
>sample, etc. I've written pretty much the same routines a small handful of
>times on different CPUs and in different languages.

Hi Joel,

Pretty deep in the basement, there. Sounds like the way Apple used to
run their floppy disc, read it, and write it with a minimum of parts
(and expense).

73's
Richard Clark, KB7QHC

1824. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 00:27:25 UTC
From: gwatts <gwatts@frontiernet.net>
Message-ID: <OZzyl.5061$3g7.324@newsfe15.iad>
Source record: 16848

Joel Koltner wrote:
> "Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in message
> news:qAuyl.81940$PS5.15732@en-nntp-07.dc1.easynews.com...
>> Is that available publicly anywhere?
>
> What I really meant here was, "Is that available *to download from the
> Internet* publicly anywhere?"

Yes.

To get more than the abstract for free you have to be an IEEE member and
a member of MTTS or otherwise subscribed to the online system.

For the abstract start at:
http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4547924

and for $29...
http://ieeexplore.ieee.org/guide/g_tools_apo.jsp

Happy trails!
- Galen, W8LNA

1825. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 00:46:56 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <eaOdnd-e7uwfTVfUnZ2dnUVZ_sbinZ2d@posted.easystreetonline>
Source record: 16849

Owen Duffy wrote:
> . . .
> Understood... but, I think after our discussion on this, NEC is not up to
> the task, it may take a more advanced EM field modelling tool.

I don't agree with this.

> My suspicion is that NEC's shortfall is that a TL element does not
> properly represent the coaxial stub and its interaction with the other
> elements near resonance, though well away from resonance, it is possible
> that it may be quite ok. King raises the issues of diameter ratios, and
> the difference with whether the stub is inboard or outboard of the o/c
> end... but it is not resolved quantitatively.

I believe that NEC can do a fine job of modeling any of the variations we've been discussing. But like all modeling systems, it has to be used properly -- the transmission line object isn't an adequate model for either a coaxial structure or an open wire stub, if either is carrying any common mode current. And in these antennas it is, so you can't insist on using nothing more than a transmission line object and then bemoaning that the result isn't correct. The wire stub variation can be correctly modeled as wires. The coaxial structure can be correctly modeled as a combination of a wire and transmission line object. In either case I have high confidence that carefully and accurately measured results will agree closely with NEC predictions.

> Now W5GI does introduce his antenna with the statement "A multi-band wire
> antenna that performs exceptionally well even though it confounds antenna
> modeling software".
>
> I know that is almost always a harbinger of bunk, the proverbial "Danger
> Will Robinson...", but in fairness, it does appear that one modelling
> package, NEC, cannot adequately model the coaxial arrangement near
> resonance, though in his antenna, the coax section would be resonant
> around 12MHz and King suggests it ought to be much shorter (resonant well
> above 14MHz).

It doesn't appear this way to me at all. What has led you to the conclusion that it isn't possible to accurately model it with NEC? Again, it's certainly impossible if you use only a transmission line object to represent a structure which has common mode current. There are many ways to build a model which doesn't accurately represent the antenna being modeled. But just because it's possible to make a bad model doesn't mean it's impossible to make a good one.

What is the evidence that results from a properly designed NEC model
disagree with careful measurements of pattern, current, or impedance of
an actual antenna of these types? You've noted that the W5GI antenna
impedance isn't consistent with a correctly phased collinear. I'd be
surprised if the impedance isn't close to what a correct NEC model
predicts -- or that the phases of the currents aren't also what NEC
predicts.

> That is not to say there aren't other BS warnings in the W5GI explanation
> of operation, or claims of performance.
>
> Thanks for your comments, I find this an interesting subject.

Me too, and thanks for bringing it up. I'd never taken a really close
look at this class of antenna before, and the results have been interesting.

Roy Lewallen, W7EL

1826. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 01:10:06 UTC
From: Jim-NN7K
Message-ID: <_BAyl.10651$%54.2152@nlpi070.nbdc.sbc.com>
Source record: 16850

Joel-- think you might be impressed with the collection in K.Fall's
(Oregon Institute of Technology) they run EE course's there! Jim NN7K

Joel Koltner wrote:
> Thanks Mac, I'll take a look next time I'm near a university library. (I'm in
> southern Oregon and there aren't any engineering schools down here...)
>
> ---Joel (KE7CDV)
>
>

1827. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 01:12:17 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gqekph$4ni$1@news.jpl.nasa.gov>
Source record: 16752

J. Mc Laughlin wrote:
> Dear Joel Koltner (no call sign):
>
> I know of no site where the classic paper may be downloaded. The paper
> had a significant influence on how people thought about modulation and
> frequency allocation. "Shannon, Poison (I can not think how to spell his
> name) and the Radio Amateur" is the title of the paper.

Actually, the title is "Poisson, Shannon, and the Radio Amateur",
Proceedings of the IRE, Dec 1959, Vol 47, Issue 12, pages 2058-2068. The
abstract is:

Congested band operation as found in the amateur service presents an
interesting problem in analysis which can only be solved by statistical
methods. Consideration is given to the relative merits of two currently
popular modulation techniques, SSB and DSB. It is found that in spite of
the bandwidth economy of SSB this system can claim no over-all advantage
with respect to DSB for this service. It is further shown that there are
definite advantages to the use of very broadband techniques in the
amateur service. The results obtained from the analysis of the radio
amateur service are significant, for they challenge the intuitively
obvious and universally accepted thesis that congestion in the radio
frequency spectrum can only be relieved by the use of progressively
smaller transmission bandwidths obtained by appropriate coding and
modulation techniques. In order to study the general problem of spectrum
utilization, some basic results of information theory are required. Some
of the significant work of Shannon is reviewed with special emphasis on
his channel capacity formula. It is shown that this famous formula, in
spite of its deep philosophical significance, cannot be used
meaningfully in the analysis and design of practical, present day
communications systems. A more suitable channel capacity formula is
derived for the practical case. The analytical results thus obtained are
used to show that broadband techniques have definite merit for both
civil and military applications.

Phil Karn (KA9Q) had some comments:
http://www.ka9q.net/vmsk/shannon.html

1828. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 01:24:44 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gqelgs$c4a$1@news.jpl.nasa.gov>
Source record: 16751

Joel Koltner wrote:
> Hi Richard,
>
> "Richard Clark" <kb7qhc@comcast.net> wrote in message
> news:8gjjs4tm5il6ulkk50isuj09d02v33u8r4@4ax.com...
>> In other posts related to deep space
>> probe's abilities to recover data from beneath the noise floor, much
>> less cell phones to operate in a sea of congestion, I encountered the
>> economic objection that such methods cost too much - expense of
>> bandwidth.
>
> I don't think anyone stated they cost "too much," just that there is a cost in
> increased bandwidth, and bandwidth isn't free.
>
> In general the spread spectrum processing gain is proportional to the
> bandwidth increase over what the original data stream would require without
> any spreading.

For very low level signals spread spectrum doesn't necessarily buy you much. If you use 10 times the BW, you have 10 times the noise, so your received SNR is worse by a factor of 10dB. But you get 10dB of processing gain when you despread, and your output SNR is the same as it was before.

Of course, you consumed some electrical power on both ends to spread and despread things. wideband amplifiers are less efficient than narrow band ones, as well. Saturated amplifiers are more efficient than non saturated amplifiers.

In general, the most efficient (considering power consumed on both ends) transmission is a very narrow band signal, where the bandwidth is just wide enough to contain the required data rate.

This drives you to things like BPSK, GMSK, and QPSK. Ideally, the signal spectrum would be a nice fat rectangular pulse.

In the deep space probe business, watts count at every step of the way.

>
> You make a good point that the Shannon limit gives a good quantitative measure
> of how you go about trading off bandwidth for SNR (effectively power if your
> noise if fixed by, e.g., atmospheric noise coming into an antenna). Shannong
> doesn't give any hint as to how to achieve the limits specified, although I've
> read that with fancy digital modulation techniques and "turbo"
> error-correcting codes, one can come very close to the limit.

Actually, state of the art is probably Low Density Parity Check (LDPC) codes, as far as approaching the limit. They've become more practical because digital logic is becoming a lot cheaper (in a nanowatts per bit sense) to do the coding/decoding. They're also unencumbered by the patents for turbo codes.

http://en.wikipedia.org/wiki/Low-density_parity-check_code

1829. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 01:47:32 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gqemrk$p8u$1@news.jpl.nasa.gov>
Source record: 16753

> The "Turbo" codes are achievable in silicon with moderate effort.

And the payment of a suitable fee to the folks who OWN the turbo codes
at France Telecom
http://www.francetelecom.com/en_EN/innovation/intellectual_property/turbo_codes/
http://www.spectralicensing.com/licfaq.htm

Note also that turbo and LDPC are really suited to longer block lengths
(1000 bits and bigger). For small block lengths, codes like Hamming
might be better.

Reed-Solomon combined with Viterbi decoders of convolutional codes are
also popular.

Note that in deep space, at a bit rate of 8 bps, you might not want to
use a code with a 1000 bit codeblock..

A
> work going back a dozen years or more can be found at:
> http://sss-mag.com/G3RUH/index2.html
> (consult the adjoining pages for fuller discussion)
>
> 73's
> Richard Clark, KB7QHC

1830. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 04:08:10 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BDA99F99BEC8nonenowhere@61.9.191.5>
Source record: 16754

Roy Lewallen <w7el@eznec.com> wrote in
news:eaOdnd-e7uwfTVfUnZ2dnUVZ_sbinZ2d@posted.easystreetonline:

> Owen Duffy wrote:
...
> I believe that NEC can do a fine job of modeling any of the variations
> we've been discussing. But like all modeling systems, it has to be
> used properly -- the transmission line object isn't an adequate model
> for either a coaxial structure or an open wire stub, if either is
> carrying any common mode current. And in these antennas it is, so you
> can't insist on using nothing more than a transmission line object and
> then bemoaning that the result isn't correct. The wire stub variation
> can be correctly modeled as wires. The coaxial structure can be
> correctly modeled as a combination of a wire and transmission line
> object. In either case I have high confidence that carefully and
> accurately measured results will agree closely with NEC predictions.

Taking the W5GI as an example, here is a deck that models the coaxial stub section as a conductor of 5mm dia, whilst the wires for the other sections are 2mm diameter. I have calculated the impedance looking into 16.5' of RG8X (W5GI's specified stub) as 14.5-j179 at 14.2MHz, and inserted that load in both of the segments where the o/c end of the stub is located. I have not used a TL element, rather I have separately calculated the input Z of the stub using the technique used at http://www.vk1od.net/calc/tl/tllc.php , that should be more accurate than using a lossless TL element.

The model assumes an effective balun, ie that there is no common mode feedline current since I have not provided such a path.

```
CM W5GI Mystery Antenna
CM Extended thin wire kernel used
CM
CE
GW 1 31 -5.033 0.000 10.563 5.033 0.000 10.563 0.001000
GW 2 15 -10.067 0.000 10.563 -5.033 0.000 10.563 0.002500
GW 3 15 -15.100 0.000 10.563 -10.067 0.000 10.563 0.001000
GW 4 15 5.033 0.000 10.563 10.067 0.000 10.563 0.002500
GW 5 15 10.067 0.000 10.563 15.100 0.000 10.563 0.001000
GE
EK
FR 0,1,0,0,14.200
EX 0 1 16 0 1 0
LD 5 0 0 0 5.7E7
LD 4 1 1 1 14.505 -191.739 0
```

```
LD 4 1 31 31 14.505 -191.739 0
GN 2 0 0 0 13 0.005
XQ
EN
```

This model indicates out of phase operation of the antenna, a multi lobed pattern and feedpoint Z of 115-j179. (Although there is a half wave of 300 ohm line in between, this feedpoint Z would cause VSWR=8 on the 50 ohms line.

I think that I have dealt with the common mode path properly.

Try as I might changing stub lengths etc, I cannot get this configuration to deliver in-phase operation of the radiator.

I suspect the model is not valid.

Owen

1831. Re: Check to see if AIOE news server is blocking rec.radio.amateur.antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 04:50:13 UTC
From: Fred McKenzie <fmmck@aol.com>
Message-ID: <fmmck-B9DCF1.00500826032009@news.mixmin.net>
Source record: 16755

In article <fmmck-1DD3C6.21463023032009@news.mixmin.net>,
Fred McKenzie <fmmck@aol.com> wrote:

> I saw 3 or 4 of your posts on AIOE, but only one showed up here on
> Mixmin.

Ian-

Actually all 3 of your first posts eventually showed up on Mixmin.
Apparently the Sysop was on vacation for a few days and there were no
new messages until Wednesday. My Monday message didn't go out until
Wednesday either.

I normally use AIOE and switched to Mixmin to see if our messages would
go both ways. I haven't noticed any recent problems at AIOE.

Fred

1832. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 08:35:06 UTC
From: Jon K Hellan LA4RT <dev@null.com>
Message-ID: <1mvdpwd6md.fsf@persaunet.uninett.no>
Source record: 16756

I'm very naive in these matters. Could a coaxial stub be modeled as a cage of wires around the center conductor? Would the orders of magnitude difference between shield/center distance and wire lengths cause problems?

73
Jon LA4RT, Trondheim, Norway

1833. Re: Check to see if AIOE news server is blocking rec.radio.amateur.antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 08:49:53 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <c1a3eKHxG0yJFwOf@g3ohx.demon.co.uk>
Source record: 16757

In message <fmmck-B9DCF1.00500826032009@news.mixmin.net>, Fred McKenzie
<fmmck@aol.com> writes
>In article <fmmck-1DD3C6.21463023032009@news.mixmin.net>,
> Fred McKenzie <fmmck@aol.com> wrote:
>
>> I saw 3 or 4 of your posts on AIOE, but only one showed up here on
>> Mixmin.
>
>Ian-
>
>Actually all 3 of your first posts eventually showed up on Mixmin.
>Apparently the Sysop was on vacation for a few days and there were no
>new messages until Wednesday. My Monday message didn't go out until
>Wednesday either.
>
>I normally use AIOE and switched to Mixmin to see if our messages would
>go both ways. I haven't noticed any recent problems at AIOE.
>
>Fred

I'm not really the one who is having the trouble. I can still post OK to
rec.radio.amateur.antenna using either my normal Demon news server, or
AIOE. It's some others who are finding that AIOE doesn't work, and they
are getting error messages.

With AIOE, the unwary can innocently fall foul of one of their several
'slap your wrist' rules. It's very easy to get blocked for 24 hours if
you send two identical posts - as you might do if, for some reason, the
first post fails to appear, and you send another.

The only indication from AIOE themselves as to whether they are
employing some other sort of blocking to rec.radio.amateur.antenna is
the following cryptic message on the aioe.news.helpdesk newsgroup:

"closed due some sort of large past abuse
articles are rejected by cleanfeed so error code is duplicated"

(which I don't really understand). They don't seem to be very
forthcoming with any further explanation. But, as I said, this problem
isn't affecting me personally.
--
Ian

1834. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 12:08:51 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BDAEB77E6B1nonenowhere@61.9.191.5>
Source record: 16758

Roy,

I have spent a lot of time exploring different modelling options over recent weeks.

One view that one might take re my fig a) is that at connection of the stub with the main vertical, the stub offers low impedance to common mode current and high impedance to differential current. It leads to thinking of it as a kind of mode trap that guides the system into in-phase operation.

I have played around with ways of trying to represent that without using the wire segments of the stub.

One method was to place a transformer with only one centre tapped winding. The top and bottom of the winding connect to the upper half wave and the lower quarter wave respectively, and the centre tap connects to a horizontal quarter wave. My thinking was that this structure provides low impedance to common mode current on the horizontal section, but a high impedance to differential input to the top and bottom of the transformer winding.

The model achieves reasonably good in-phase operation, but works best with about 0.35 wave horizontal. I have used an NT card to insert the transformer windings in the two segments. Here is the deck.

```
CM
CE
GW 1 15 0 0 0 0 0 5 0.005
GW 2 15 0 0 5 0 0 15 0.005
GW 3 15 0 0 5 7.2 0 5 0.005
GE 1
NT 1 15 2 1 0 0.01 0 -0.01 0 0.01
GN 1
EK
EX 0 1 1 1 0
TL 1 15 2 1 100 0
FR 0 0 0 0 15 0
EN
```

I then tried changing the horizontal section to two opposed radial wires, and found that worked well with each radial being about 0.2 wave long.

```
CM
CE
GW 1 15 0 0 0 0 0 5 0.005
GW 2 15 0 0 5 0 0 15 0.005
```

```
GW 3 15 0 0 5 4 0 5 0.005
GW 4 15 0 0 5 -4 0 5 0.005
GE 1
NT 1 15 2 1 0 0.01 0 -0.01 0 0.01
GN 1
EK
EX 6 1 1 1 0
FR 0 0 0 0 15 0
EN
```

One can achieve similar outcome by wiring an appropriately phased zero length TL between the segments each side of the horizontal wire.

If these models indicate that the common mode path on the horizontal wire is important, one loses control of the length of that in the case of the coaxial configuration because there isn't an o/c end indpendent of the vertical conductor.

The coaxial construction gives the opportunity to create a high impedance to differential current between the adjacent segments, but lacks the ability to create a low impedance common mode path independently of the vertical structure.

Thoughts?

Owen

1835. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 16:20:07 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gqg6fd$t7m$1@news.service.uci.edu>
Source record: 16759

Cecil Moore wrote:
> Jim Kelley wrote:
>> The only current flowing on an antenna is the current traveling from
>> one end to the other.

> Let's assume you are correct. Here are a few questions:
>
> 1. Given a 90 degree monopole fed against an infinite
> ground plane, what would be the phase at the top of the
> antenna compared to the phase at the feedpoint for any
> instant in time?
>
> 2. Why would the feedpoint impedance of a 1/4WL monopole
> be more than a magnitude less than the feedpoint impedance
> of an infinite monopole?
>
> 3. Where does the above current go when it hits the open-
> circuit at the top of the monopole?
>
> 4. Why is the total energy in the E-field at the top of the
> monopole so high?

In what way are any of the questions relevant to, or deterministic of
the assumption?

73, ac6xg

1836. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 16:23:34 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <b_Nyl.84600$PS5.16009@en-nntp-07.dc1.easynews.com>
Source record: 16760

"Jim-NN7K" <nn7kexk7zfg@noway.net.> wrote in message
news:_BAyl.10651$%54.2152@nlpi070.nbdc.sbc.com...
> Joel-- think you might be impressed with the collection in K.Fall's
> (Oregon Institute of Technology) they run EE course's there! Jim NN7K

Thanks, I'll have to make a trip over. Heck of a lot closer than Corvallis...

1837. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 16:35:58 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <Q9Oyl.69477$rp7.31379@en-nntp-02.dc1.easynews.com>
Source record: 16761

Hi Jim,

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gqelgs$c4a$1@news.jpl.nasa.gov...
> Actually, state of the art is probably Low Density Parity Check (LDPC)
> codes, as far as approaching the limit.

I hadn't heard of them; thanks for the link. Can you comment on how they
compare to Reed-Solomon codes?

I have just enough background in error-correcting codes to spout off the right
keywords in nearly-coherent Usenet posts and wait for people to point out my
errors. :-)

---Joel

1838. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 17:28:46 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <iXOyl.2905$im1.2649@nlpi061.nbdc.sbc.com>
Source record: 16763

Jim Kelley wrote:
> In what way are any of the questions relevant to, or deterministic of
> the assumption?

Answering a question with a question is a well known
diversion. Please answer my questions and you will
automatically answer yours.

Here's some more: How can a current that changes
phase by 3 degrees in 90 degrees of wire be used
to measure the EM wave delay through the wire?

How can that current be used to measure the delay
through a coil positioned in the middle of that wire?

How fast does EM wave energy travel through a wire?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1839. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 17:32:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <y_Oyl.2906$im1.562@nlpi061.nbdc.sbc.com>
Source record: 16764

Richard Clark wrote:
> Returning to the process - through sub-optimization by adding
> bafflegab, ...

As far as bafflegab goes, Richard, no one can hold a candle
to you. Your posting is a perfect example.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as
government persecution..." Ayn Rand

1840. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 17:33:15 UTC
From: "J. Mc Laughlin" <jcm@power-net.net>
Message-ID: <WpudnRORs4jHIVbUnZ2dnUVZ_rfinZ2d@bright.net>
Source record: 16765

Dear Jim:

I am obliged to you for the title correction. My memory might not be
what it was. Thanks also for the abstract.
While the paper (again from memory and poked by the abstract) is written
in terms of SSB/DSB, a main issue is that of vector addition of copies of a
signal with noise and interference not being coherent. One ends up with a
system that is resistive to noise and interference up to a point where it
stops working.
73, Mac N8TT
--
J. McLaughlin; Michigan, USA
Home: JCM@power-net.net
"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gqekph$4ni$1@news.jpl.nasa.gov...
> J. Mc Laughlin wrote:
>> Dear Joel Koltner (no call sign):
>>
>> I know of no site where the classic paper may be downloaded. The
>> paper had a significant influence on how people thought about modulation
>> and frequency allocation. "Shannon, Poison (I can not think how to spell
>> his name) and the Radio Amateur" is the title of the paper.
>
> Actually, the title is "Poisson, Shannon, and the Radio Amateur",
> Proceedings of the IRE, Dec 1959, Vol 47, Issue 12, pages 2058-2068. The
> abstract is:
>
>
> Congested band operation as found in the amateur service presents an
> interesting problem in analysis which can only be solved by statistical
> methods. Consideration is given to the relative merits of two currently
> popular modulation techniques, SSB and DSB. It is found that in spite of
> the bandwidth economy of SSB this system can claim no over-all advantage
> with respect to DSB for this service. It is further shown that there are
> definite advantages to the use of very broadband techniques in the amateur
> service. The results obtained from the analysis of the radio amateur
> service are significant, for they challenge the intuitively obvious and
> universally accepted thesis that congestion in the radio frequency
> spectrum can only be relieved by the use of progressively smaller
> transmission bandwidths obtained by appropriate coding and modulation
> techniques. In order to study the general problem of spectrum utilization,
> some basic results of information theory are required. Some of the
> significant work of Shannon is reviewed with special emphasis on his
> channel capacity formula. It is shown that this famous formula, in spite

> of its deep philosophical significance, cannot be used meaningfully in the
> analysis and design of practical, present day communications systems. A
> more suitable channel capacity formula is derived for the practical case.
> The analytical results thus obtained are used to show that broadband
> techniques have definite merit for both civil and military applications.
>
> Phil Karn (KA9Q) had some comments:
> http://www.ka9q.net/vmsk/shannon.html

1841. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 17:36:11 UTC
From: "J. Mc Laughlin" <jcm@power-net.net>
Message-ID: <Qv-dnf7JNdaUIFbUnZ2dnUVZ_vjinZ2d@bright.net>
Source record: 16766

Dear Joel - KE7CDV:

Sounds as if Jim has you pointed to a source. When you are in the library,
do find the follow-up comments. They are a big window, as I recall, into
the mind-set of the time. 73, Mac N8TT

--
J. McLaughlin; Michigan, USA
Home: JCM@power-net.net
"Jim-NN7K" <nn7kexk7zfg@noway.net.> wrote in message
news:_BAyl.10651$%54.2152@nlpi070.nbdc.sbc.com...
> Joel-- think you might be impressed with the collection in K.Fall's
> (Oregon Institute of Technology) they run EE course's there! Jim NN7K
>
> Joel Koltner wrote:
>> Thanks Mac, I'll take a look next time I'm near a university library.
>> (I'm in southern Oregon and there aren't any engineering schools down
>> here...)
>>
>> ---Joel (KE7CDV)

1842. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 17:37:23 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <j4ens4pdjl0gg6dnophnt1dlqse4g2fqs9@4ax.com>
Source record: 16762

On Thu, 26 Mar 2009 08:20:07 -0800, Jim Kelley <jwkelley@uci.edu>
wrote:

>Cecil Moore wrote:
>> Jim Kelley wrote:
>>> The only current flowing on an antenna is the current traveling from
>>> one end to the other.
>
>> Let's assume you are correct. Here are a few questions:
>>
>> 1. Given a 90 degree monopole fed against an infinite
>> ground plane, what would be the phase at the top of the
>> antenna compared to the phase at the feedpoint for any
>> instant in time?
>>
>> 2. Why would the feedpoint impedance of a 1/4WL monopole
>> be more than a magnitude less than the feedpoint impedance
>> of an infinite monopole?
>>
>> 3. Where does the above current go when it hits the open-
>> circuit at the top of the monopole?
>>
>> 4. Why is the total energy in the E-field at the top of the
>> monopole so high?
>
>In what way are any of the questions relevant to, or deterministic of
>the assumption?

Ah Jim!

You have the essence of Cecil's (r) Sub-optimal Conjugated Hypothesis
Information Transform before you, the SCHIT (c) model.

He has taken the ordinary postulate of current flow, conjugated it
into a new hypothesis through his sub-optimization. By removing
random bytes, it becomes more intelligible (I will take a stab at it
here):
1. a 90 degree monopole fed against an infinite ground plane
2. the feedpoint impedance of a 1/4WL monopole
3. current go[es]
4. the total energy
now makes perfect sense and whitens your teeth at the same time.

Returning to the process - through sub-optimization by adding
bafflegab, the future deconstruction (posts that would follow the one
above and for which I have already deconvoluted) would find Cecil

eventually unwinding the original conjugation, proving he was right by proving you right - except you were wrong in what you "thought" (the information transform) because he thought you were wrong.

73's
Richard Clark, KB7QHC

1843. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 19:59:21 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <s8Ryl.16811$as4.10562@nlpi069.nbdc.sbc.com>
Source record: 16768

Richard Clark wrote:
> You must be flattered (an example of information transformation) at
> this imitation of you then (your comment here so unabashedly basking
> in the intended conjugate of these congratulations).

Just send me some of what you are smoking and I will die happy. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com
"Government 'help' to business is just as disastrous as government
persecution..." Ayn Rand

1844. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 20:21:47 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lgons49ajsfu79qeb0fchtmg3972120o5l@4ax.com>
Source record: 16767

On Thu, 26 Mar 2009 12:32:15 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> Returning to the process - through sub-optimization by adding
>> bafflegab, ...
>
>As far as bafflegab goes, Richard, no one can hold a candle
>to you. Your posting is a perfect example.

You must be flattered (an example of information transformation) at
this imitation of you then (your comment here so unabashedly basking
in the intended conjugate of these congratulations).

[Gad this so easy, I should have gotten an AIG bonus for derivative
design!]
:-0

1845. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 21:21:46 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <v6sns4pt80sph3bgi8t2fk1k83qrt0a401@4ax.com>
Source record: 16769

On Thu, 26 Mar 2009 14:59:21 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> You must be flattered (an example of information transformation) at
>> this imitation of you then (your comment here so unabashedly basking
>> in the intended conjugate of these congratulations).
>
>Just send me some of what you are smoking and I will die happy. :-)

A double conjugation which reveals the source of this side thread.
Deconstructing the bafflegab by random byte dispersal gives us Cecil's
information transform:
>what I am smoking isn't good enough.

[gad, this is so easy I could be double-dipping AIG bonuses and
getting favored IRS status too!]

1846. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-26 21:44:48 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BDB58F9C9DBCnonenowhere@61.9.191.5>
Source record: 16770

Owen Duffy <none@no.where> wrote in
news:Xns9BDA99F99BEC8nonenowhere@61.9.191.5:

...
> I suspect the model is not valid.

I should have explained that the reason for that suspicion that the model
does not predict behaviour similar to W5GI's claims, most importantly three
half waves in phase on 20m.

Owen

1847. Anyone know a reliable gain for a collinear J pole

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-27 04:34:19 UTC
From: Tom Horne <hornetd@verizon.net>
Message-ID: <fHYyl.219$zg5.13@nwrddc02.gnilink.net>
Source record: 16771

Does anyone have a source for a authoritative gain figure for a
collinear J pole.
--
Tom Horne

"This alternating current stuff is just a fad. It is much too dangerous
for general use." Thomas Alva Edison

1848. Re: Anyone know a reliable gain for a collinear J pole

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-27 06:37:34 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <Pu_yl.196573$6r1.15228@newsfe19.iad>
Source record: 16772

"Tom Horne" <hornetd@verizon.net> wrote in message
news:fHYyl.219$zg5.13@nwrddc02.gnilink.net...
> Does anyone have a source for a authoritative gain figure for a
> collinear J pole.

< snip >

Please read this:
http://www.scribd.com/doc/8511817/Some-JPoles-That-I-Have-Known-4

by L. B Cebik, W4RNL/SK, one of the most-referenced authors on the subject of antennas. If he said it, I believe it.

1849. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-27 07:38:53 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BDBBDB31570Bnonenowhere@61.9.191.5>
Source record: 16773

Owen Duffy <none@no.where> wrote in news:Xns9BDAEB77E6B1nonenowhere@
61.9.191.5:

> NT 1 15 2 1 0 0.01 0 -0.01 0 0.01
>

Ouch, the signs of the Y values should be the opposite, so

NT 1 15 2 1 0 -0.01 0 0.01 0 -0.01

Leakage reactance is usually +ve, so Y11 should be -ve, etc.

It has a similar effect, but correct signs is better.

Apologies.

Owen

1850. www.stefsclothes.com Wholesale Nike AirMax,nike shox,Air Jordan,air force one,dunk Free Shipping Paypal payment

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-27 19:07:18 UTC
From: "kdsajfjisdhf@gmail.com" <kdsajfjisdhf@gmail.com>
Message-ID: <2929fedc-ebf5-44b9-8ffc-acc39d1ab66e@s38g2000prg.googlegroups.com>
Source record: 16774

discount Air max 95 shoeswww.stefsclothes.com
wholesale Air Max 87 shoes
discount Air MAX LTD shoes
sell Air max 90 shoes
discount Air Max 88 shoeswww.stefsclothes.com
discount Air MAX 89 shoes
discount Air max tn shoes
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discount Men's women's shocks OZ NZ TL trainers
For more products pls visit:www.stefsclothes.com
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discount Air MAX LTD shoes
sell Air max 90 shoes
discount Air Max 88 shoeswww.stefsclothes.com
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discount Air Max tn8 shoes
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discount Air MAX LTD shoes
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discount Air Max 88 shoeswww.stefsclothes.com
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discount MEN'S WOMEN'S Shox R5 R4 trainers
discount Men's women's shocks OZ NZ TL trainers
For more products pls visit:www.stefsclothes.com
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wholesale Air Max 87 shoes
discount Air MAX LTD shoes
sell Air max 90 shoes
discount Air Max 88 shoeswww.stefsclothes.com
discount Air MAX 89 shoes
discount Air max tn shoes

discount Air Max tn8 shoes
discount Air MAX tn9 shoeswww.stefsclothes.com
discount MEN'S WOMEN'S Shox R5 R4 trainers
discount Men's women's shocks OZ NZ TL trainers
For more products pls visit:www.stefsclothes.com

1851. Re: KC8QJP

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-27 19:27:44 UTC
From: osd <reccoz@rogers.ca>
Message-ID: <_M9zl.15930$gf.6654@read1.cgocable.net>
Source record: 16775

im calling you right away!

stupid cunt
"Borked Pseudo Mailed" <nobody@pseudo.borked.net> wrote in message
news:d886f350fad50e2d74f4ac46184fddff@pseudo.borked.net...
> HI, I AM CRISCO KATHY AND TAX SEASON IS ALMOST UPON US. I CAN GET YOU THE
> BEST
> RETURN. IT MIGHT BE A LITTLE BIT ILLEGAL.BUT WHAT THE HECK,THE
> GOVERMENT TAKES TO MUCH OF OUR MONEY. BE SURE AND BRING A BIG CAN OF
> CRISCO WITH YOU. I WORK BEST ON MY KNEES WHILE SOMEONE SLATHERS MY FAT
> RUMP WITH CRISCO.
> BRING A BIG CAN, I HAVE A VERY LARGE RUMP.
>
> CALL 419-698-2075 FOR MORE INFO AND ASK FOR CRISCO KATHY KC8QJP
>
>

1852. Re: Noise figure paradox

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 13:57:40 UTC
From: jimlux@earthlink.net
Message-ID: <b969e4a9-4e80-49af-bf9f-381047f22b24@p42g2000prp.googlegroups.com>
Source record: 16776

On Mar 26, 9:35 am, "Joel Koltner" <zapwireDASHgro...@yahoo.com>
wrote:
> Hi Jim,
>
> "Jim Lux" <james.p....@jpl.nasa.gov> wrote in message
>
> news:gqelgs$c4a$1@news.jpl.nasa.gov...
>
> > > Actually, state of the art is probably Low Density Parity Check (LDPC)
> > > codes, as far as approaching the limit.
>
> I hadn't heard of them; thanks for the link. Can you comment on how they
> compare to Reed-Solomon codes?
>
> I have just enough background in error-correcting codes to spout off the right
> keywords in nearly-coherent Usenet posts and wait for people to point out my
> errors. :-)
>

Much longer block length than typical R-S. Also, the way the check
bits are generated is different. Each check bit isn't formed by
combining ALL the source bits, just some of them (obviously a
different "some" for each of the check bits), hence the name Low
Density. Both are usually roughly rate 1/2.

1853. vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 15:46:20 UTC
From: vo1bbn@gmail.com
Message-ID: <d58b6696-b16a-4681-a70d-6cb33be54b84@e5g2000vbe.googlegroups.com>
Source record: 16777

I am doing some design with vertical antennas for the low bands 40/80/160M. I require a somewhat large reactance on the element to help load it on 160M, (40&80M) are working somewhat satisfactory now with the design i am using. The required reactance that i need and the size it would be using a coil (with the materials that i have right now) may not last a winter storm in VO1 land when loaded with ice or snow in 90km/h wind, so my question is, has anyone had experience using a toroid wound with the correct amount of reactance installed on the element to to achieve resonance instead of a coil and how it has been for them.

1854. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 17:10:25 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jSszl.16959$as4.6606@nlpi069.nbdc.sbc.com>
Source record: 16778

vo1bbn@gmail.com wrote:
> ... has anyone had experience
> using a toroid wound with the correct amount of reactance installed
> on the element to to achieve resonance instead of a coil and how it
> has been for them.

I've only one data point based on measurements made
at a California 75m mobile shootout.

K7JEB had this one mounted on a full-sized pickup.
An 8.5 foot whip using a 75m Texas Bugcatcher coil
at the base outperformed my antenna by +7dB.

I had this one mounted on a full-sized pickup.
An 11.5 foot whip using an SG-230 autotuner at the
base.

Not exactly the comparison you are seeking but the
SG-230 did use #2 iron powder toroidal inductors.

One might assume that the 6 inch long air-core
bugcatcher coil contributed more radiation than the
toroidal inductors. Seems to me the large air-core
coil occupies a greater number of degrees of antenna
than does toroidal inductor. This could be proved
(or disproved) by making delay measurements on both
coils using traveling wave current.

Previous such measurements are worthless for such
because the total current used was primarily standing-
wave current and was changing phase by only ~1 deg
for every ~30 degrees of antenna wire or coil.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1855. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 17:54:13 UTC
From: vo1bbn@gmail.com
Message-ID: <b4fb0ca7-5031-4f6f-bcac-cfeb4f0eee24@v28g2000vbb.googlegroups.com>
Source record: 16779

On Mar 28, 2:10 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> vo1...@gmail.com wrote:
> > ... has anyone had experience
> > using a toroid wound with the correct amount of reactance installed
> > on the element to to achieve resonance instead of a coil and how it
> > has been for them.
>
> I've only one data point based on measurements made
> at a California 75m mobile shootout.
>
> K7JEB had this one mounted on a full-sized pickup.
> An 8.5 foot whip using a 75m Texas Bugcatcher coil
> at the base outperformed my antenna by +7dB.
>
> I had this one mounted on a full-sized pickup.
> An 11.5 foot whip using an SG-230 autotuner at the
> base.
>
> Not exactly the comparison you are seeking but the
> SG-230 did use #2 iron powder toroidal inductors.
>
> One might assume that the 6 inch long air-core
> bugcatcher coil contributed more radiation than the
> toroidal inductors. Seems to me the large air-core
> coil occupies a greater number of degrees of antenna
> than does toroidal inductor. This could be proved
> (or disproved) by making delay measurements on both
> coils using traveling wave current.
>
> Previous such measurements are worthless for such
> because the total current used was primarily standing-
> wave current and was changing phase by only ~1 deg
> for every ~30 degrees of antenna wire or coil.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Thanks for your reply and the information you provided, it was very
useful as well as the link, it will take me a bit to check it out LOTS
of info there as well.
I'm trying 40/80/160M trap vertical ,i'm experimenting with the low
pass filters in the vertical as coil and cap hats as opposed to coils
and coax capacitors or mica caps which ever. I would like to use the
hats to distribute the current along the radiators more uniform as
opposed to linear. The insulator i have on hand for the top hat is

physically not long enough for the air core inductor, this is why i was wondering about the toroid at the top. 40/80M works great for dx with a 100W not bad on 15M either despite propagation lately. I should also mention its noisy on rx, i see it sometimes has 40db more noise then the loops that i used for rx, thanks again, 73 vo1bbn

1856. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 18:00:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <2i42a6-aoq.ln1@mail.specsol.com>
Source record: 16780

vo1bbn@gmail.com wrote:
> I am doing some design with vertical antennas for the low bands
> 40/80/160M. I require a somewhat large reactance on the element to
> help load it on 160M, (40&80M) are working somewhat satisfactory now
> with the design i am using. The required reactance that i need and the
> size it would be using a coil (with the materials that i have right
> now) may not last a winter storm in VO1 land when loaded with ice or
> snow in 90km/h wind, so my question is, has anyone had experience
> using a toroid wound with the correct amount of reactance installed
> on the element to to achieve resonance instead of a coil and how it
> has been for them.

I have something simular and used a FT-240-61 torroid which I happened
to have to build a tapped inductor with a pair of relays to switch it
in/out for 80/160.

The antenna analyzer and radio say it seems to work OK.

Just be sure to pick a material appropriate for an inductor at those
frequencies and a size appropriate for the power you intend to run.

--
Jim Pennino

Remove .spam.sux to reply.

1857. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 18:09:51 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <JKmdnRBC3odv-lPUnZ2dnUVZ_gKdnZ2d@posted.easystreetonline>
Source record: 16781

vo1bbn@gmail.com wrote:
> I am doing some design with vertical antennas for the low bands
> 40/80/160M. I require a somewhat large reactance on the element to
> help load it on 160M, (40&80M) are working somewhat satisfactory now
> with the design i am using. The required reactance that i need and the
> size it would be using a coil (with the materials that i have right
> now) may not last a winter storm in VO1 land when loaded with ice or
> snow in 90km/h wind, so my question is, has anyone had experience
> using a toroid wound with the correct amount of reactance installed
> on the element to to achieve resonance instead of a coil and how it
> has been for them.

In most applications you'd be concerned about the inductor Q, since higher Q means less loss for the same inductance. You probably won't be able to get as high Q with a toroid as you will with a good air core inductor.

But Tom, W8JI pointed out that with mobile antennas on the low frequency bands, the ground loss is so much greater than loading inductor loss, the latter isn't usually an important factor. It'll be difficult to get really low ground loss with a fixed antenna, too, so a toroid should work just about as well in practice unless you have a very good ground system.

You don't, though, want the Q to be outrageously low. And that can happen if water gets between the turns. (That's also true of an air wound inductor.) So I recommend putting it into a container or coating it to keep that from happening.

I built a toroid-loaded quarter wavelength (half length) 40 meter dipole for Field Day, and measured the gain relative to a full size dipole. The loss due to the inductors was less than a dB.

Expect a very narrow bandwidth if the loss is low.

Roy Lewallen, W7EL

1858. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 18:35:06 UTC
From: vo1bbn@gmail.com
Message-ID: <c9e433be-336a-4799-9f8e-8773c25fa810@v37g2000vbb.googlegroups.com>
Source record: 16782

On Mar 28, 3:00 pm, j...@specsol.spam.sux.com wrote:
> vo1...@gmail.com wrote:
> > I am doing some design with vertical antennas for the low bands
> > 40/80/160M. I require a somewhat large reactance on the element to
> > help load it on 160M, (40&80M) are working somewhat satisfactory now
> > with the design i am using. The required reactance that i need and the
> > size it would be using a coil (with the materials that i have right
> > now) may not last a winter storm in VO1 land when loaded with ice or
> > snow in 90km/h wind, so my question is, has anyone had experience
> > using a toroid wound with the correct amount of reactance installed
> > on the element to to achieve resonance instead of a coil and how it
> > has been for them.
>
> I have something simular and used a FT-240-61 torroid which I happened
> to have to build a tapped inductor with a pair of relays to switch it
> in/out for 80/160.
>
> The antenna analyzer and radio say it seems to work OK.
>
> Just be sure to pick a material appropriate for an inductor at those
> frequencies and a size appropriate for the power you intend to run.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

Thanks for the information, nice to see others have done some work
with this in the past.I could do the switch relay and use the same hat
on 160 as i am now on 80, this overhaul length would be about 45 feet
not bad on 80 but i'm think a little short for efficiency on 160, with
the insulator i have on top of the 45 feet i can go another 12 feet to
the 160M hat. 57 feet overhaul to see how that works out. I do have an
option for an 18 feet fiberglass on that for 75 feet total but would
like to stick to 57 feet max any higher than that it will be quite
noticeable with the sun on the fiberglass over the tree line, i will
consider though your thought maybe not worth the gain in efficiency to
go the other 12 feet to the 160M hat, its maybe about 8-10 electrical
degrees in vertical radiator to the 160M top hat, thanks again great
info,73 vo1bbn

1859. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-28 18:50:27 UTC
From: vo1bbn@gmail.com
Message-ID: <36bf6beb-680e-428e-897c-ffe23d78708b@e15g2000vbe.googlegroups.com>
Source record: 16783

On Mar 28, 3:09 pm, Roy Lewallen <w...@eznec.com> wrote:
> vo1...@gmail.com wrote:
> > I am doing some design with vertical antennas for the low bands
> > 40/80/160M. I require a somewhat large reactance on the element to
> > help load it on 160M, (40&80M) are working somewhat satisfactory now
> > with the design i am using. The required reactance that i need and the
> > size it would be using a coil (with the materials that i have right
> > now) may not last a winter storm in VO1 land when loaded with ice or
> > snow in 90km/h wind, so my question is, has anyone had experience
> > using a toroid wound with the correct amount of reactance installed
> > on the element to to achieve resonance instead of a coil and how it
> > has been for them.
>
> In most applications you'd be concerned about the inductor Q, since
> higher Q means less loss for the same inductance. You probably won't be
> able to get as high Q with a toroid as you will with a good air core
> inductor.
>
> But Tom, W8JI pointed out that with mobile antennas on the low frequency
> bands, the ground loss is so much greater than loading inductor loss,
> the latter isn't usually an important factor. It'll be difficult to get
> really low ground loss with a fixed antenna, too, so a toroid should
> work just about as well in practice unless you have a very good ground
> system.
>
> You don't, though, want the Q to be outrageously low. And that can
> happen if water gets between the turns. (That's also true of an air
> wound inductor.) So I recommend putting it into a container or coating
> it to keep that from happening.
>
> I built a toroid-loaded quarter wavelength (half length) 40 meter dipole
> for Field Day, and measured the gain relative to a full size dipole. The
> loss due to the inductors was less than a dB.
>
> Expect a very narrow bandwidth if the loss is low.
>
> Roy Lewallen, W7EL

thanks for the consideration on the topic of the Q, for the 40M
vertical i have over 0220khz of <2:1 swr on 80M about 160khz, i've
tried a shunt resistor to change the bw on the 80M but didn;t really
do much with it before 160M was going through my mind. If I get
50-80khz bw on 160M, i can work with that to do some testing it was
orginally designed for 40/80M which works ok but now i would like to

try 160, thanks again for the info, 73 vo1bbn

1860. F/S Very LARGE Log Periodic antennas

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-29 00:12:53 UTC
From: sawman02@yahoo.com
Message-ID: <48c97444-e1ce-49db-9874-ec70a54a7dd3@e38g2000yqa.googlegroups.com>
Source record: 16784

This antenna is, in fact, a system of two Log Periodic antennas. The Mirage/KLM C6-12-8 and the Mirage/KLM 10-30-7. When installed on one tower and fed in series with one 50 ohm feed line, the system becomes the Mirage/KLM C6-30-15-LPA. This scheme offers several advantages. Performance of the system is equal to an antenna with a 76 foot long boom. In addition the two antennas can be mounted on separate towers and/or fed with separate feed lines for even greater flexibility with no loss of performance.

Specifications:

Frequency of operation: 6 to 30 MHZ

Elements of system: 15

Element length (Max): 48 feet

Gain: 5.5 dBd minimum to 8.0 dBd

Front to back: 15.0 dB typical

Feed Impedance: 50 ohms unbalanced (Use 4 4:1 Baluns)

Boom Length: C6-12-8 = 46 FT.
C10-30-7 = 30 FT.

Turning Radius: 33.0 Ft

Asking $500.00

Please e-mail any questions to w2npt@arrl.net THIS ANTENNA SYSTEM IS ON THE GROUND READY FOR PICK UP ONLY IN NORTHERN NEW JERSEY

1861. solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-29 15:28:42 UTC
From: Andy <dx90@blueyounder.co.uk>
Message-ID: <HsMzl.198638$Hk2.74218@newsfe22.ams2>
Source record: 16785

Hi all

I have a Solarcon I-max 2000 for 10 metes.

My question is about the ground plain legs. Would it work any different if the ground plain legs were horizontal rather than on a downward angle?

The bracket that came with it is rusted badly and it would be easer for me to mount them horizontal on a new home made bracket.

Thanks

1862. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-29 15:48:19 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <gqo584$q81o$1@tr22n12.aset.psu.edu>
Source record: 16786

Andy wrote:
> Hi all
>
> I have a Solarcon I-max 2000 for 10 metes.
>
> My question is about the ground plain legs. Would it work any different if
> the ground plain legs were horizontal rather than on a downward angle?
>
> The bracket that came with it is rusted badly and it would be easer for me
> to mount them horizontal on a new home made bracket.
>
> Thanks
>
>
>
Hi Andy:

I don't know much about that antenna, but drooping the radials, (ground legs) is a common way to raise the impedance of the antenna.
Most ground plane antennas resonate impedance is less than 50 ohms and drooping the ground radials raises the impedance up to 50 ohms. The 2 best ways to find it out is:
1 model the antenna in software
2 try it and find out what happens.

I vote for no. 2 as it's Ham radio at it's best.

John W3JXP

1863. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-29 18:17:52 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <v99vs4h2ffv9n3a26a8kdh09vftp11hepi@4ax.com>
Source record: 16787

On Thu, 26 Mar 2009 09:35:06 +0100, Jon K Hellan LA4RT <dev@null.com>
wrote:

>I'm very naive in these matters. Could a coaxial stub be modeled as a
>cage of wires around the center conductor? Would the orders of
>magnitude difference between shield/center distance and wire lengths
>cause problems?

Hi Jon,

I offered that model long ago in this thread - as it was ignored, I
was condemned to use it myself.

I had given some thought ahead of plunging ahead into the model (it
was originally a thick radiator for which the model was perfectly
suitable). The concept of coaxial tube shielding proceeds along the
premise of the shield supporting separate conduction paths, isolated
by skin effect of the tube conductor. That is, the currents of the
shield on the inside surface are separate and distinct from those on
the outside surface. I knew full well that NEC would not maintain
that distinction for any wire in a cage simply because it lacks the
ability to report separate currents along the same wire as would be
found in this inside/outside tube surface.

The model I published and provided the link to here in this thread was
not strictly faithful to the concept of the cage model for a coaxial
tube, however. I enhanced it into roughly 1000 wires emulating a cage
10.5M long, 2M in diameter, with hoops every 33cM along its length,
and closed at both ends. Think of it as a roll of mesh with a 1 foot
grid capped at both ends with radial wires. Within it is a length of
wire that is roughly 10M long and isolated from the cage at both ends.

With the wire loss set to perfect, the central wire was driven and it
was as though no shielding cage existed. Within tenths of a dB, the
radiation characteristic across HF was roughly the same as from a
simple wire dipole. Conceptually, it would appear that the Faraday
shield does not exist in the world of NEC.

When I introduced the copper setting for wire loss, this assemblage
exhibited the following "loss"
MHz
1 24.2
2 16.6
3 14.2
4 12.8
5 12.1

6 12.1
7 13.4
8 18.8
9 19.0
10 6.6
11 3.0
12 2.2
13 2.0
14 1.8
15 1.6
16 1.7
17 1.5
18 1.4

Following this, I connected the ends of the coaxial interior wire to the caps at the tube ends (a complete short circuit). Losses in the left column (where significant); lobe peak in the right column (where significant):
MHz
1 56.1
2 39.4
3 29.3
4 21.9
5 15.8
6 10.5
7 6.0
8 2.4
9 0.2 1.8 dBi
10 2.7 dBi
11 2.8 dBi
12 2.7 dBi
13 2.5 dBi
14 2.3 dBi
15 0.2 2.1 dBi
16 0.5
17 0.7
18 1.1

So, to your question:
>Could a coaxial stub be modeled as a
>cage of wires around the center conductor?
No, not if my experience bears any relevance.

73's
Richard Clark, KB7QHC

1864. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-29 20:26:05 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BDE4BA1AB728nonenowhere@61.9.191.5>
Source record: 16788

Richard Clark <kb7qhc@comcast.net> wrote in
news:v99vs4h2ffv9n3a26a8kdh09vftp11hepi@4ax.com:

> On Thu, 26 Mar 2009 09:35:06 +0100, Jon K Hellan LA4RT <dev@null.com>
> wrote:
>
>>I'm very naive in these matters. Could a coaxial stub be modeled as a
>>cage of wires around the center conductor? Would the orders of
...
> So, to your question:
>>Could a coaxial stub be modeled as a
>>cage of wires around the center conductor?
> No, not if my experience bears any relevance.

Hi Jon, Richard,

I considered the same, and I did model some simpler structures to explore some possible effects.

Although it would be possible to create a cylindrical structure of GW elements, my concern was that it would not have the near complete isolation of inner and outer surfaces of the outer conductor, that it might need be be very large in diameter in terms of wavelength, and that it moves further away from practical commercial coaxial lines.

I have been quiet here, but have been modelling and writing notes up on the results. I have asked for comment on a draft model, and subject to that, I will post the URL for further comments, hopefully in a day or two.

The effort was really about understanding whether the stub in my fig a) could simply be replaced by a pure differential mode transmission line, and whether that could then be coaxially collinear with the main radiator. I think the answer to the first question is NO, and that drives the answer to the second question.

Owen

1865. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-29 22:19:17 UTC
From: Harry H <harryharms@hotmail.com>
Message-ID: <FtSzl.1410$Bm1.355@news-server.bigpond.net.au>
Source record: 16789

Andy,

I "Googled" the antenna and this is what I found:

Solarcon I-max 2000
This antenna tunes from 20 upto 10 Metre, making it perfect for HF operation

a.. Solarcon 5/8 Wave
a.. Base Station Antenna
a.. End Fed 5/8 wavelength radiator
a.. Extended I-Max (current Maximum) Center Section
a.. Radials are Not Required!
a.. Wide Bandwidth
a.. High Power 5000 Watts.
a.. Outstanding Gain
a.. 24 Feet Long
a.. Wind Rating - 100 MPH

73
HH

"Andy" <dx90@blueyounder.co.uk> wrote in message
news:HsMzl.198638$Hk2.74218@newsfe22.ams2...
> Hi all
>
> I have a Solarcon I-max 2000 for 10 metes.
>
> My question is about the ground plain legs. Would it work any different if
> the ground plain legs were horizontal rather than on a downward angle?
>
> The bracket that came with it is rusted badly and it would be easer for me
> to mount them horizontal on a new home made bracket.
>
> Thanks
>
>
>
>

1866. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-30 07:54:17 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <7R_zl.22067$i9.20398@bignews8.bellsouth.net>
Source record: 16790

"Harry H" <harryharms@hotmail.com> wrote in message
news:FtSzl.1410$Bm1.355@news-server.bigpond.net.au...
> Andy,
>
> I "Googled" the antenna and this is what I found:
>
> Solarcon I-max 2000
> This antenna tunes from 20 upto 10 Metre, making it perfect for HF
> operation
>
> a.. Solarcon 5/8 Wave
> a.. Base Station Antenna
> a.. End Fed 5/8 wavelength radiator
> a.. Extended I-Max (current Maximum) Center Section
> a.. Radials are Not Required!
> a.. Wide Bandwidth
> a.. High Power 5000 Watts.
> a.. Outstanding Gain
> a.. 24 Feet Long
> a.. Wind Rating - 100 MPH
>
> 73
> HH
>
>
>
> "Andy" <dx90@blueyounder.co.uk> wrote in message
> news:HsMzl.198638$Hk2.74218@newsfe22.ams2...
>> Hi all
>>
>> I have a Solarcon I-max 2000 for 10 metes.
>>
>> My question is about the ground plain legs. Would it work any different
>> if the ground plain legs were horizontal rather than on a downward angle?
>>
>> The bracket that came with it is rusted badly and it would be easer for
>> me to mount them horizontal on a new home made bracket.
>>
>> Thanks

The Solarcon antenna derives no benefit from using radials. Spare yourself the drudgery and effort. Some folks were feeding upon the ignorance of CB users and were trying to create mystical/magical options they could sell for more profit. The basic antenna is surprisingly the good. The rest of the

junk is unnecessary.

Ed, N2ECW

1867. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-30 18:15:04 UTC
From: Andy <dx90@blueyounder.co.uk>
Message-ID: <B_7AI.152029$q45.112674@newsfe07.ams2>
Source record: 16791

Thanks all, for your input. I'll stick it up on the mast this weekend and try it without any ground plain legs to start with. It will look a lot tidier without legs on and I won't have the problem of having to put up a longer stub mast to accommodate the ground plain legs.

73

"Ed Cregger" <ecregger@bellsouff.net> wrote in message news:7R_zl.22067$i9.20398@bignews8.bellsouth.net...
>
> "Harry H" <harryharms@hotmail.com> wrote in message
> news:FtSzl.1410$Bm1.355@news-server.bigpond.net.au...
>> Andy,
>>
>> I "Googled" the antenna and this is what I found:
>>
>> Solarcon I-max 2000
>> This antenna tunes from 20 upto 10 Metre, making it perfect for HF
>> operation
>>
>> a.. Solarcon 5/8 Wave
>> a.. Base Station Antenna
>> a.. End Fed 5/8 wavelength radiator
>> a.. Extended I-Max (current Maximum) Center Section
>> a.. Radials are Not Required!
>> a.. Wide Bandwidth
>> a.. High Power 5000 Watts.
>> a.. Outstanding Gain
>> a.. 24 Feet Long
>> a.. Wind Rating - 100 MPH
>>
>> 73
>> HH
>>
>>
>>
>> "Andy" <dx90@blueyounder.co.uk> wrote in message
>> news:HsMzl.198638$Hk2.74218@newsfe22.ams2...
>>> Hi all
>>>
>>> I have a Solarcon I-max 2000 for 10 metes.
>>>
>>> My question is about the ground plain legs. Would it work any different
>>> if the ground plain legs were horizontal rather than on a downward
>>> angle?

>>>
>>> The bracket that came with it is rusted badly and it would be easer for
>>> me to mount them horizontal on a new home made bracket.
>>>
>>> Thanks
>
>
> The Solarcon antenna derives no benefit from using radials. Spare yourself
> the drudgery and effort. Some folks were feeding upon the ignorance of CB
> users and were trying to create mystical/magical options they could sell
> for more profit. The basic antenna is surprisingly the good. The rest of
> the junk is unnecessary.
>
> Ed, N2ECW
>
>

1868. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-30 19:29:05 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c8202581-77d8-45dc-ac18-f5c42248d978@z8g2000prd.googlegroups.com>
Source record: 16792

On Mar 30, 2:54 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:
> "Harry H" <harryha...@hotmail.com> wrote in message
>
> news:FtSzl.1410$Bm1.355@news-server.bigpond.net.au...
>
>
>
> > Andy,
>
> > I "Googled" the antenna and this is what I found:
>
> > Solarcon I-max 2000
> > This antenna tunes from 20 upto 10 Metre, making it perfect for HF
> > operation
>
> > a.. Solarcon 5/8 Wave
> > a.. Base Station Antenna
> > a.. End Fed 5/8 wavelength radiator
> > a.. Extended I-Max (current Maximum) Center Section
> > a.. Radials are Not Required!
> > a.. Wide Bandwidth
> > a.. High Power 5000 Watts.
> > a.. Outstanding Gain
> > a.. 24 Feet Long
> > a.. Wind Rating - 100 MPH
>
> > 73
> > HH
>
> > "Andy" <d...@blueyounder.co.uk> wrote in message
> >news:HsMzl.198638$Hk2.74218@newsfe22.ams2...
> >> Hi all
>
> >> I have a Solarcon I-max 2000 for 10 metes.
>
> >> My question is about the ground plain legs. Would it work any different
> >> if the ground plain legs were horizontal rather than on a downward angle?
>
> >> The bracket that came with it is rusted badly and it would be easer for
> >> me to mount them horizontal on a new home made bracket.
>
> >> Thanks
>
> The Solarcon antenna derives no benefit from using radials. Spare yourself

> the drudgery and effort. Some folks were feeding upon the ignorance of CB
> users and were trying to create mystical/magical options they could sell for
> more profit. The basic antenna is surprisingly the good. The rest of the
> junk is unnecessary.
>
> Ed, N2ECW

Hmm
How do you know for sure that the arms are not part of the radiator ?
The specs say no "ground" plane required which suggests no buried
wires
as artificial ground is supplied

1869. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-30 19:39:22 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Jd9Al.11095$%54.5040@nlpi070.nbdc.sbc.com>
Source record: 16793

Cecil Moore wrote:
> Seems to me the large air-core
> coil occupies a greater number of degrees of antenna
> than does the toroidal inductor.

I've received a number of emails requesting that I
explain what I meant by this statement. It is easiest
understood by people who can solve the following
problem.

How can the impedance looking into the following
physical 45 degree, dual-Z0 stub be purely resistive,
i.e. electrically 90 degrees and resonant?

---22.5 deg 300 ohm twinlead---+---22.5 deg 50 ohm coax---open
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1870. Re: solarcon l-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-30 20:51:04 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gqrbbo$ec5c$1@tr22n12.aset.psu.edu>
Source record: 16795

Andy wrote:
> Thanks all, for your input. I'll stick it up on the mast this weekend and
> try it without any ground plain legs to start with. It will look a lot
> tidier without legs on and I won't have the problem of having to put up a
> longer stub mast to accommodate the ground plain legs.

Where are the radials on this antenna? The pix I've seen don't show any,
so it looks as if someone was tricking the antenna out. Probably to no
avail.

As likely as not, the thing was designed without radials, so it doesn't
need them. I'd put it up without them, measure the SWR, and if it checks
okay, you're good to go. The antenna will operate as well as it will
operate.

1871. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-30 21:01:26 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <1ac2t45hfhv52vat1v51djddg0tqpmk2l0@4ax.com>
Source record: 16794

On Mon, 30 Mar 2009 19:15:04 +0100, "Andy" <dx90@blueyounder.co.uk>
wrote:

>Thanks all, for your input. I'll stick it up on the mast this weekend and
>try it without any ground plain legs to start with. It will look a lot
>tidier without legs on and I won't have the problem of having to put up a
>longer stub mast to accommodate the ground plain legs.
>
>73

Hi Andy,

While the question of radials hinged on the match, sloping radials
raising the resistance; what you propose may raise it further yet. The
radials serve a purpose. If you remove them, you need to replace
their function by some other means.

This isn't bad, but it needs to be recognized and anticipated.
Basically you are moving towards a vertical dipole (albeit with one
leg at 5/8ths length). Even more, the lower leg will probably be
driven into ground (not the normal convention for vertical dipoles).
Even more, more, there is the drive line. It will contribute its own
variation to the drivepoint impedance unless you have it properly
choked.

The long and short of it, is that it may take some experimentation for
the right length of the supporting mast if you tie off the drive point
to it (instead of simply using if for support).

If you don't choke the feedpoint, then your coax will become part of
the tuned system. This is not bad (unless it gets back into your
equipment in the shack, or in the house in general), but it will
introduced a hard to control variability.

73's
Richard Clark, KB7QHC

1872. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 02:33:27 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gqrrrb$rc7i$1@tr22n12.aset.psu.edu>
Source record: 16796

Bart Bailey wrote:

> http://www.video-observer.com/imax/imax2000.htm
>
> I use one for ten twelve fifteen and never installed the radial kit.
> Seems to me that the radials are more of a decoupling shield than
> anything to do with counterpoise, and in my case the feedline is
> spiraled around the mast on the way down to choke any stray RF.

The page says the antenna is a .64 wavelength. But isn't the extra length just compensating for the change in VF due to being inside the fiberglass tube? Looks to be made well enough for sure.

- 73 de Mike N3LI -

1873. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 03:11:35 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gqru4o$at4$1@news.service.uci.edu>
Source record: 16797

Cecil Moore wrote:
> Jim Kelley wrote:
>> In what way are any of the questions relevant to, or deterministic of
>> the assumption?
>
> Answering a question with a question is a well known
> diversion. Please answer my questions and you will
> automatically answer yours.

One could claim that the questions exemplify your point about diversion.
:-)

> Here's some more: How can a current that changes
> phase by 3 degrees in 90 degrees of wire be used
> to measure the EM wave delay through the wire?
> How can that current be used to measure the delay
> through a coil positioned in the middle of that wire?

Assuming the antenna is 90 degrees in length, the relevant currents can be measured, the maximum is known and the minimum is zero, then: According to the plots that I've seen, the standing wave pattern will show a discontinuous change in amplitude at positions where there is an abrupt change in phase of the traveling waves. Since it's fair to assume propagation velocity is the same in both directions, waves would be phase delayed by the same amount in both directions at a discontinuity, and the combined sum of the two delays would account for the total delay and for the resulting change in amplitude. Since a standing wave can be considered an amplitude vs phase plot (where both phase and amplitude vary with position) and the amplitude is known on both sides of the discontinuity, the amplitude on each side of the discontinuity relates functionally to a corresponding phase on the abscissa of the standing wave curve. The total change in phase is equal to the difference in phase on the two sides of the discontinuity. The phase delay for each traveling wave is then half the total phase change. Whether all of the assumptions are true for the cited case, I don't know. The assumptions that you've made are not always clearly or completely communicated, but would obviously weight heavily in the results. This is also true for EZNEC results.

Why not take some actual phase shift measurements for yourself?

73, ac6xg

1874. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 11:45:13 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <cnnAl.15315$W06.14366@flpi148.ffdc.sbc.com>
Source record: 16798

Jim Kelley wrote:
> Why not take some actual phase shift measurements for yourself?

I have already done that at my previous QTH and
reported it two years ago. Remember these graphs
from software that you recommended?

http://www.w5dxp.com/travstnd.gif

My dual-trace scope measurements agreed within
the accuracy to which I could measure.

Point is that the delay through a transmission
line, a wire, or a coil is the same no matter
what type of current (standing wave or traveling
wave) is flowing. EM waves are EM waves. If the
current is primarily standing wave current with
essentially unchanging phase, the phase shift
in the standing wave current is unrelated to the
delay through the T-line, wire, or coil. Yet
standing wave current phase is what was used to
"prove" a 3 nS delay through a 100T, 2" dia, 10TPI
coil on 75m. If traveling wave current had been
used, as I did on my 75m Texas Bugcatcher coil,
the delay would have been shown to be ~26 nS.

In a 1/4WL monopole or 1/2WL dipole, the total
current is about 90% standing wave current.

Did you take a look at the current phase in these
two inverted-Vs?

http://www.w5dxp.com/inv_v.EZ

http://www.w5dxp.com/inv_vt.EZ
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1875. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 18:36:49 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <7q6dnXWfSpJY_0_UnZ2dnUVZ_qLinZ2d@posted.easystreetonline>
Source record: 16800

Jim Kelley wrote:
>
> It's like having a conversation with a recorded message.
>
> ac6xg

Exactly why I plonked him a few years ago. The relative silence is refreshing, and I haven't missed a thing.

Roy Lewallen, W7EL

1876. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 19:02:41 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gqtls2$1l$1@news.service.uci.edu>
Source record: 16799

Cecil Moore wrote:
> Jim Kelley wrote:
>> Why not take some actual phase shift measurements for yourself?
>
> I have already done that at my previous QTH and
> reported it two years ago. Remember these graphs
> from software that you recommended?
>
> http://www.w5dxp.com/travstnd.gif
>
> My dual-trace scope measurements agreed within
> the accuracy to which I could measure.
>
> Point is that the delay through a transmission
> line, a wire, or a coil is the same no matter
> what type of current (standing wave or traveling
> wave) is flowing. EM waves are EM waves. If the
> current is primarily standing wave current with
> essentially unchanging phase, the phase shift
> in the standing wave current is unrelated to the
> delay through the T-line, wire, or coil. Yet
> standing wave current phase is what was used to
> "prove" a 3 nS delay through a 100T, 2" dia, 10TPI
> coil on 75m. If traveling wave current had been
> used, as I did on my 75m Texas Bugcatcher coil,
> the delay would have been shown to be ~26 nS.
>
> In a 1/4WL monopole or 1/2WL dipole, the total
> current is about 90% standing wave current.
>
> Did you take a look at the current phase in these
> two inverted-Vs?
>
> http://www.w5dxp.com/inv_v.EZ
>
> http://www.w5dxp.com/inv_vt.EZ

It's like having a conversation with a recorded message.

ac6xg

1877. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 19:55:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SyuAl.27463$ZP4.11@nlpi067.nbdc.sbc.com>
Source record: 16651

Roy Lewallen wrote:
> Exactly why I plonked him a few years ago.

Roy, I remember it well. You plonked me when I
reminded you that an antenna is a distributed
network and NOT a lumped circuit. Anyone can
verify that simply by googling the newsgroup.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1878. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 20:02:19 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <dFuAl.11128$jZ1.9904@flpi144.ffdc.sbc.com>
Source record: 16652

Jim Kelley wrote:
> It's like having a conversation with a recorded message.

On my end, it's like trying to communicate with
an I/O interface that is all output and no input.
I have no other choice but to repeat the questions
that you, so far, have refused to answer.

So here is it again: How can one use the total
current in a 1/4WL monopole, which changes phase
by 3 degrees in 90 degrees of antenna, to measure
the delay through a wire or a loading coil?

It's a really simple question, Jim. Either one
can or one cannot.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1879. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 20:13:36 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE049839A2C1nonenowhere@61.9.191.5>
Source record: 16653

Owen Duffy <none@no.where> wrote in
news:Xns9BDE4BA1AB728nonenowhere@61.9.191.5:

...
> I have been quiet here, but have been modelling and writing notes up
> on the results. I have asked for comment on a draft model, and subject
> to that, I will post the URL for further comments, hopefully in a day
> or two.

http://www.vk1od.net/antenna/ccps/index.htm

Owen

1880. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 21:05:05 UTC
From: Jim Kelley <jimkelleyamps@gmail.com>
Message-ID: <c1c112cb-34df-4348-a8c7-56d57e60d1e1@b6g2000pre.googlegroups.com>
Source record: 16654

Cecil Moore wrote:
> Jim Kelley wrote:
> > It's like having a conversation with a recorded message.

> I have no other choice but to repeat the questions
> that you, so far, have refused to answer.

Beeep. Check Google newsgroups, yesterday at 7:11 PM.

ac6xg

1881. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 22:06:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <QtwAI.15339$W06.5585@flpi148.ffdc.sbc.com>
Source record: 16656

Jim Kelley wrote:
> Beeep. Check Google newsgroups, yesterday at 7:11 PM.

Beeep. Check this very newsgroup. I already responded
to that posting. You didn't answer the question. We
are not talking about discontinuities. We are talking
about a straight 1/4WL piece of wire. So allow me to
keep asking until I get a reasonable response:

EZNEC says there is ~3 degrees of phase change in the
current in 90 degrees of monopole. How can that current
be used to measure the delay through 'n' degrees of
monopole?

For instance - in 30 degrees of monopole, the current
shifts phase by one degree. What *exactly* does that
indicate? Wouldn't the delay be more accurately
measured by comparing the ARCCOSine of the amplitudes?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1882. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 22:08:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SvwAl.15340$W06.11309@flpi148.ffdc.sbc.com>
Source record: 16657

Richard Clark wrote:
> You have experienced the famous time conjugated
> answer-preceding-the-question paradox of Cecil's information
> transformation.

OK, Richard, I admit that you caught me asking rhetorical
questions - Congratulations!
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1883. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 22:27:57 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE0604AFC32Bnonenowhere@61.9.191.5>
Source record: 16659

Richard Clark <kb7qhc@comcast.net> wrote in
news:1l85t4pn39ovlii9k0gd91bjibepsr116p@4ax.com:

Richard,

If it doesn't come through on an initial read, I have tried to deconstruct the fig a) / Fig 1 configuration, and then synthesise it with another structure with and without the common mode current path, and observe the effect on current distribution... then compare that with the TL representation.

If the development isn't clear, I have some more work to do!

...
> I will have to revisit the comments in this thread and tie them to the
> cogent points of your page.

Constructive comments are always welcome, and appreciated.

Thanks
Owen

1884. NEC modelling of lossy transmission lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 22:31:56 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE060F7FBD43nonenowhere@61.9.191.5>
Source record: 16660

TLLC (http://www.vk1od.net/calc/tl/tllc.php) and TWLLC (http://www.vk1od.net/calc/tl/twllc.htm) have been enhanced to calculate two port S parameters and Y parameters for the described transmission line section.

The parameters are independent of load. They are dependent on line type, frequency, and length and are only calculated if no mismatch is specified (to emphasis the independence of load). Because transmission lines are repiprocal two port networks, only S11 and S21 are displayed, S22=S11 and S12=S21; and likewise for the Y parameters.

An example use for the two port model is NEC NT network cards which use Y parameters to describe the network.

NEC model of G5RV with NT cards for lossy transmission line (http://vk1od.net/blog/wp-content/uploads/2009/03/g5rv-nt.nec) is an example NEC model that uses two NT cards to model the open wire line section and then coax for a G5RV at 3.6MHz. NEC will include the transmission line losses in the ‘Network Loss’ category under the Power Budget heading in the NEC output report, and calculated Efficiency will include the effects of the transmission line loss. The impedance seen by the source in this example includes the effects of transformation by the lossy line sections.

For convenience with NEC, the calculator output also contains an NT card prototype with the Y parameters for the transmission line section.

Owen

1885. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 23:02:17 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <js75t41o9stnguhmoj3sc7mhtuhbr1k1jp@4ax.com>
Source record: 16655

On Tue, 31 Mar 2009 14:05:05 -0700 (PDT), Jim Kelley
<jimkelleyamps@gmail.com> wrote:

>
>
>Cecil Moore wrote:
>> Jim Kelley wrote:
>> > It's like having a conversation with a recorded message.
>
>> I have no other choice but to repeat the questions
>> that you, so far, have refused to answer.
>
>Beeep. Check Google newsgroups, yesterday at 7:11 PM.

Hi Jim,

You have experienced the famous time conjugated
answer-preceding-the-question paradox of Cecil's information
transformation. What Cecil is saying (we are now employing the random
byte discard from the data babblefield):
>>you have misunderstood your answer to the question I am asking now.

73's
Richard Clark, KB7QHC

1886. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-03-31 23:14:32 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <1l85t4pn39ovlii9k0gd91bjibepsr116p@4ax.com>
Source record: 16658

On Tue, 31 Mar 2009 20:13:36 GMT, Owen Duffy <none@no.where> wrote:

>Owen Duffy <none@no.where> wrote in
>news:Xns9BDE4BA1AB728nonenowhere@61.9.191.5:
>
>...
>> I have been quiet here, but have been modelling and writing notes up
>> on the results. I have asked for comment on a draft model, and subject
>> to that, I will post the URL for further comments, hopefully in a day
>> or two.
>
>http://www.vk1od.net/antenna/ccps/index.htm
>
>Owen

Hi Owen,

This is a lot to digest at this time, but at least it is all in one
place and done well.

You offer several many solutions (to what are arguably straw men
hypothesis such as the W5GI mystery antenna) and there are certainly
gaps that beg filling: Fig. 2 is rather anemic as is the original
supporting commentary.

I offered a comment long ago that my best guess was that phasing would
seem to separate your two examples. That seems to have been both
vindicated and rejected through the numerous examples - I've lost
track of the focus.

I will have to revisit the comments in this thread and tie them to the
cogent points of your page.

73's
Richard Clark, KB7QHC

1887. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 00:55:48 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gquai8$7ej$1@news.service.uci.edu>
Source record: 16661

Cecil Moore wrote:
> Jim Kelley wrote:
> EZNEC says there is ~3 degrees of phase change in the
> current in 90 degrees of monopole. How can that current
> be used to measure the delay through 'n' degrees of
> monopole?

I have absolutely no idea. Sounds like you've made an error somewhere.

ac6xg

1888. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 01:08:56 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <8oe5t4ds7ocoqqkk1cogd4jorlau2fe1er@4ax.com>
Source record: 16662

On Tue, 31 Mar 2009 22:27:57 GMT, Owen Duffy <none@no.where> wrote:

>> I will have to revisit the comments in this thread and tie them to the
>> cogent points of your page.
>
>Constructive comments are always welcome, and appreciated.

Hi Owen,

I can well appreciate the issue of common mode driven by coupling to the field. The work-arounds I would have expected Roy to have offered would have been a combination of the TL faculty of NEC for the differential mode, and an appendix-like wire to support the common mode contribution. The lack of this discussion where it often appears in other threads leaves me to wonder if other issues are being discussed here; hence my problem with topic focus.

As for the modeling of a coaxial transmission line by wires, I have fairly convinced myself that that approach is thoroughly dead (having seen no contrary response to my comment about the concept of a Faraday Shield being unknown to NEC).

By these two, it would seem that modeling coaxial components in NEC is intractable and claims applied to their use will only be proven/disproven in the lab or the field.

Proceeding from this last conclusion, I cannot see any purpose to the comparison of the two colinear representations. You certainly bring many issues to bear, but except for vague references that are 60 years old, I don't see any solution to your original questions (which is where I thought the focus resided).

73's
Richard Clark, KB7QHC

1889. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 01:16:11 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lnf5t4tvhe99a7oimue0fv5frrtngvmhi8@4ax.com>
Source record: 16663

On Tue, 31 Mar 2009 17:08:52 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>OK, Richard, I admit that you caught me asking rhetorical
>questions - Congratulations!

Congratulations? In noting the absolute uniform homogeneity for the
technical equivalent of:
"Are we there yet?"

Cheap kudos with the equivalent buying power of shares in Lehman
Brothers.
"Are we solvent yet?"

1890. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 11:27:54 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ZcIAl.15365$W06.5927@flpi148.ffdc.sbc.com>
Source record: 16664

Jim Kelley wrote:
> Cecil Moore wrote:
>> EZNEC says there is ~3 degrees of phase change in the
>> current in 90 degrees of monopole. How can that current
>> be used to measure the delay through 'n' degrees of
>> monopole?
>
> I have absolutely no idea. Sounds like you've made an error somewhere.

Nope, there's no error. Roy once verified that the total
current in a standing wave antenna, like a dipole, changes
phase very little over the 180 degree length of the 1/2WL
dipole. Yet, he used that same total current with its unchanging
phase to try to measure the delay through a loading coil.

In "Antennas", Kraus' plot of the total current on a dipole,
(Figure 14-2 on page 464 in the 3rd edition) also shows that
same 3 degree phase change in the total current over the 180
degree length of a 1/2WL dipole thus agreeing with EZNEC.

If one cannot detect a phase shift in 25 degrees of 1/4WL
monopole or 1/2WL dipole using the total current, how can
one expect to detect a phase shift in 25 degrees of loading
coil using that same constant phase current?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1891. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 11:38:38 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1nIAl.15366$W06.3787@flpi148.ffdc.sbc.com>
Source record: 16665

Jim Kelley wrote:
> According to the plots that I've seen, the standing wave pattern will
> show a discontinuous change in amplitude at positions where there is an
> abrupt change in phase of the traveling waves.

There's no discontinuity because the 180 degree phase shift
occurs at an amplitude zero crossing, i.e. when the phase
shift occurs, the amplitude is zero. But please note the
phase shift doesn't occur at all on a 1/4WL (or shorter)
monopole.

> Since a
> standing wave can be considered an amplitude vs phase plot (where both
> phase and amplitude vary with position) ...

For the standing wave function, I(x,t)=Io*cos(x)*cos(wt),
the phase at any point x, for a particular (t), doesn't
change phase. Set t=0 and vary x to see what happens.
Only the amplitude changes with x. That's why standing
wave current phase cannot be used to measure the delay
through a loading coil.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1892. multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 15:28:06 UTC
From: Bob Dixon <dixon.8@osu.edu>
Message-ID: <dixon.8-32D982.11280601042009@charm.magnus.acs.ohio-state.edu>
Source record: 16666

Butternut advertises a multiband (40,20,15,10) resonant radial system
(model STK) for use with their verticals. It is made from twinlead,
with notches in it.

See http://www.bencher.com/pdfs/00361ZZV.pdf

How does this work? Is there design information available anywhere so
one could build their own system for other bands?
How does its performance compare with normal radials?
Bandwidth, efficiency etc.

Bob W8ERD

1893. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 16:25:24 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gr04hk$81u$1@news.jpl.nasa.gov>
Source record: 16668

Richard Clark wrote:
> On Tue, 31 Mar 2009 22:27:57 GMT, Owen Duffy <none@no.where> wrote:
>

> By these two, it would seem that modeling coaxial components in NEC is
> intractable and claims applied to their use will only be
> proven/disproven in the lab or the field.
>

Depends on what you want to do with modeling coaxial components. A wire to represent the (radiating)outside, and an appropriate NT or TL to represent the (non radiating) inside works fairly well.

If you actually want to model the cable itself (including the fields inside), I suspect it won't work so well. MoM codes in general often don't deal with modeling the fields inside closed boxes very well.

I suspect that the cases where it doesn't are basically in the category of things that MoM codes don't do well with in general, and you need to go to a different kind of model (FDTD? etc.)

1894. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 17:18:46 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <p387t494j7lj5t4f39g3m3u2afh2jbfrnc@4ax.com>
Source record: 16667

On Wed, 01 Apr 2009 11:28:06 -0400, Bob Dixon <dixon.8@osu.edu> wrote:

>How does this work?

Hi Bob,

Pretty much in the fashion of regular radials.

>Is there design information available anywhere so
>one could build their own system for other bands?

Start with the nominal quarterwave length. Put it in the expected
environment. Measure SWR. Trim or lengthen as appropriate.

>How does its performance compare with normal radials?

Normal being? Compared to 120 quarterwave radials?

>Bandwidth, efficiency etc.

Oh! Bandwidth: probably wider.

Efficiency: probably much less.

Bandwidth and efficiency for ONE radial (or two, or three, or four...)
in this circumstance is normally in an inverse relationship when close
to the ground.

73's
Richard Clark, KB7QHC

1895. Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 17:59:08 UTC
From: News Features <news@lanews.com>
Message-ID: <JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com>
Source record: 16669
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

SILENCED HAMS MEAN SAFER COUNTY

-from the Los Angeles Press-Telegram (4/1/2009)

San Luis Obispo county supervisors took drastic and unprecedented action yesterday by passing an ordinance that would prohibit amateur radio operators, known as "hams", from operating their transmitting stations. The measure was put in place to eliminate what officials said were health risks associated with transmitters located close to children. A legal struggle is expected.

By a vote of 4 to 1 with one abstention, the governing board of SLO county took action aimed at addressing a recent Stanford University study that showed a correlation between ham radios and attention deficit disorder and hyperactivity in children, as well as nagging reports of interference caused by radio hams operating their high-powered transmitters in residential neighborhoods.

"Our primary responsibility is to provide a safe environment for children to live without the dangerous effects of radio waves constantly bombarding them and causing proven neurological and psychological problems," said E. Duane Nyborg, an attorney who represented the county in several court cases in the past year. "Hams are not the only culprits, but they are usually in very close proximity to children and are no doubt a major contributor to the health problems we've been seeing. The interference is just the last straw that convinced the county that something had to be done about it."

Atascadero city manager Laura Lopez said that she has seen a tenfold increase in the number of complaints of interference from ham radio operators in the last six months. New housing developments which have dramatically increased the population there and placed homes unusually close to each other are the predominant contributing factor. Similar conditions exist in most of the county.

"We have radio hams getting into toasters, electric pianos, light bulbs, everything, from their powerful transmitters that cause all this static. Many of our citizens can't use basic appliances or watch television because of all the junk that the hams are broadcasting," she told the Press-Telegram by telephone.

Hams can't say they didn't see this coming. They were warned by the county last year that if they did not submit to a check of their stations by officials, they would have limits imposed on their operation. Few consented to the searches, which most decried as invasive. But nobody expected a total ban on transmissions.

"This is outrageous. You'd better believe we're going to fight back and win. This is a totalitarian seizure of our rights that is totally illegal and can't stand up," said Frank Wilson, a local ham club president. He said there were no formal plans for an appeal yet but preparations were underway.

Wilson claims that a federal preemption of local zoning ordinances, called PRB-1, delineates three rules for local municipalities to follow in accomodating antenna structures such as are used by hams. But Nyborg says that PRB-1 applies to antenna structures only, and not the transmitters used to feed the antennas with a radio signal. "We know all about PRB-1. That's why we said nothing about antennas. This law is not about antennas. It goes after the root of the problem, which is the transmitters that put out huge signals that get into the brains of our children and short-circuit them out. Those are the facts, that's what the scientific evidence points to," he said at a news conference called shortly after the county's action.

In 2008, a group of researchers in the school of Environmental Health and Safety at Stanford published their findings that exposure to ham radio signals for three hours per day increased the risk of hyperactivity and related disorders by 10% in children aged 12 and under. This effect was seen when a typical ham radio was turned on up to ⅛ mile away. The San Luis Obispo city office says that up to 11,000 children in that city live that close to a ham radio station.

The Stanford study showed that frequencies around 3.5, 7, and 14 Megahertz were the most harmful, but that the danger existed all the way up to 450 Megahertz and above.

"We know where the hams are, that information is easy to get on the Internet," said former mayor of Paso Robles and current county supervisor Anthony Wu. "Most of these guys are running one hundred watts of power, that's an incredible amount of radiation, and you can't block it out. It enters your house, it gets into your body and does a lot of damage there."

Cindy MacMahon, 41, of Morro Bay, soccer mom of two and volunteer at city bake sales, praised the action by the board of supervisors and looked forward to radio-free days ahead. "I'm always getting interference on my TV and stereo that I'm sure is from the guy down the street with his big tower. I don't know why they even allow those big, ugly things. I know that my kids are harder to control when he turns that thing on and I've been saying that for three years."

Most area hams were totally unaware of the new law and Wilson believes there will be a revolt when they discover it. "I will be speaking about it at our club meeting on Friday. We would normally disseminate the information by radio, but of course that's illegal for the moment."

Amateur radio operator Clay Collins of Pismo Beach, was incredulous. "We provide free emergency communications for the county, we assist the police department, we help out several times a year on all manner of public events, and this is the thanks we get. Someone is badly informed. Next thing you know, we'll be accused of being responsible for global warming." Another radio ham who identified himself only as "Deke" said that although a number

of hams were mobilizing to do what they could he was pessimistic. "I actually know that Nyborg guy. He walks around twelve hours a day with a cell phone up to his head and yet he's worried about the tiny amount of radiation from my transmitter." Deke claims that the frequencies of a cell phone are close to that of a microwave oven. "You hold a [cell] phone up to your head, you're cooking your brain slowly," he warned.

Collins, a ham of fifty-three years and grandfather of six, lives in a housing tract with a homeowners' association that already regulates ham radio operators. He says that restrictive HOA agreements exacerbate the problem. "By prohibiting high antenna towers, [the HOA rules] force me to place my antennas lower and closer to my neighbors, and force me to use higher power to make up for the difference in performance." He said that his antenna, which is located in his attic, creates far more radiation on the ground than if it were up on a 50-foot tower-the same type of tower Collins applied for in 1997 but was denied a permit for. Hams are required by the FCC to keep track of the amount of radiation from their antennas but Collins' station is far below the allowable limits, he says. "In the next earthquake, all of my neighbors will be running to my house to send messages out to their loved ones in other places. I hope they remember this."

Dick Henley, a member of the Electronic Industries Association who lives in Ann Arbor, Michigan, claims that most of the interference to appliances, televisions, and phones can't be blamed on hams going about their normal activity. "The vast majority of these appliances is insufficiently shielded against external fields. The slightest interference- even from a garage door opener or a cell phone-can disrupt it. In most cases, it's not the ham's fault." He said that on the contrary, hams are usually the ones who must suffer with interference from these electronic devices. "Most of the stuff coming out of China spews interference to radios, but the hams have just learned to live with it. Homeowners are totally oblivious to this," he said.

Xiang Qang, the principal investigator at Stanford who co-published the original paper, explained that the radio waves, over the long term, polarize cells in the brain tissue and bias a child toward rough or anti-social behavior. "We saw these children who couldn't sit still, couldn't listen to a book being read to them, and who had severe reading delays and disabilities. We started to see that each time a television was turned on near them, they would actually exhibit worse behavior. So we followed that path: why the television? Why the television? Then we discovered that is wasn't the television, but the radiation from it. So we tested many other types of transmitters and found that the worst ones were ham transmitters from Icom and Yaesu, with the Kenwoods being marginally better."

Qang explains that it is the brain's frontal lobe which is most vulnerable to external radiation due to its location at the front of the cranium just behind the forehead, its proximity to the sphenoid wing- the bone at the temple that houses the pituitary gland- and it's large size. "The frontal lobe absorbs a lot of radiation and since it governs our behavior, this is why we think that attention deficit and hyperactivity are the symptoms of prolonged absorption of high-frequency waves in that region," she said.

"Nonsense," says Dr. V. Subrahaminayalakshminirayana, head of neurology at Kaiser Permanente in San Francisco. "There is absolutely no conclusive evidence in the literature to support an ambitious and imaginative theory that ionizing radiation can deleteriously and negatively affect behavior in children whether the exposure is at a relatively constant low-level or periodic." He believes that attention deficit hyperactivity is more likely a function of exhaustive over-stimulation of the brain by video games, texting, and television viewing. "Ask the Asian parents of your child's playmate why they never seem to have this problem," he laughed.

In fact, the Stanford study found that Hispanic children were fourteen times as likely to suffer the effects of radio waves than were Asian children. Hydra Brock-Parker, dean of sociology at Cal Poly San Luis Obispo and a consultant named in the Stanford study, says that Hispanics live in depressed parts of a city where houses and apartments are packed closer together and the possibility of exposure is much greater. "Where are all of those children going to go to escape radiation from transmitters? There's no backyard to play in and besides, you wouldn't want your children playing outside in those neighborhoods. If you've got, you know, a ham serial-killer type next door flooding your apartment with high-intensity radio waves, you have no choice but to sit there and get sick," she said.

Representatives from Marin, Ventura, and Los Angeles counties were present at the press conference and were said to be keenly interested in the implementation of the new law. A similar measure was introduced into the L.A. County Board's docket on Monday and may be considered at the next session in May.

1896. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 18:27:44 UTC
From: Reinhard Zwirner <reinhard_zwirner@web.de>
Message-ID: <49D3B220.B5A9E29A@t-online.de>
Source record: 16670
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

News Features schrieb:
>
> SILENCED HAMS MEAN SAFER COUNTY

I do really hope that this article is related to today's date ...

Reinhard

1897. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 20:04:57 UTC
From: "Bruce W. Ellis" <ellis@means.net>
Message-ID: <u5i7t4p93d0l7l06fsj51pb5pre46dkvk6@4ax.com>
Source record: 16671

On Wed, 01 Apr 2009 20:27:44 +0200, Reinhard Zwirner
<reinhard_zwirner@web.de> wrote:

>News Features schrieb:
>>
>> SILENCED HAMS MEAN SAFER COUNTY
>
>I do really hope that this article is related to today's date ...
>
>Reinhard

Fortunately, tomorrow is April 2nd.
W0BF

1898. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-01 22:25:20 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gr0pkhome2@news.jpl.nasa.gov>
Source record: 16672
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

Reinhard Zwirner wrote:
> News Features schrieb:
>> SILENCED HAMS MEAN SAFER COUNTY
>
> I do really hope that this article is related to today's date ...
>
> Reinhard
Google "Los Angeles Press-Telegram", the purported source..

1899. Dying Forsaken American Soldier Families - BAILOUT BONUSES FOR BILLIONAIRES - DEPRESSIONS FOR THE NOBODIES - NWOer Jones: Don't blame Bush the decider - Cheney: Don't blame Bush either - George Noory: Oh what a happy day to see you suckers die this way!

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 00:06:05 UTC
From: JUSTICE FOR GOD <99.999999noemailhereman@hotmail.com>
Message-ID: <7pt7t4d9a4j3r88reoo4col7vmsjchl2tq@4ax.com>
Source record: 16673
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.scanner

Israeli T-Shirts Mock Gaza Killing of Innocent Children
http://news.sky.com/skynews/Home/World-News/Israeli-Army-T-Shirts-Mock-Killing-Palestinian-Women-And-Children-During-Gaza-Offensive/Article/200903315245946?f=rss

Again, they are ungodly thieving enemies of LIFE.
Not lovers of God, but Satanic as most certainly
deserve to be gassed as war criminals, after a
fair public trial of our peers. They broke the truce,
then targeted innocent children for mass murder.
They are enemies of every single innocent Human
being breathing. They publicly hold contempt for
Hillel, the Founder of Judaism. Being an actual
Jew, the zionist Israeli depise as sadistic mass
murdering thieves of Creation.

-

U.S. Injecting Billions Into Foreign Central Banks
http://www.huffingtonpost.com/2009/03/17/us-injecting-billions-int_n_175454.html

Look, you nazi bastards, they are stealing
our monies. God, I am so frustrated with America's
refusals to support open communications for wise
men or women to speak freely. Where, or how does
a bankster "Lose" trillions?, when they covet
every last quarter penny? JPMorgan has currently
more than a trillion dollars in capital, so why pay
out as a tax payer 9.9 trillion on hopes to bolster
loans? They trade worthless derivitives, (CNBC's
"House of Cards") then pay themselves in YOUR
pension money as commissions. A sub-prime scam where
they trick a family into re-finance on the promise
of lowering payments, then bamb! double YOUR
payments to steal the house they put ZERO down for,
is a criminal fraud. But, whores of Obama hear him
state, "it is all perfectly legal", and that's all
they need to placate our screams for real Justice.
Our America is dying for the false accusing
demon LIAR, Trillioniare Zionist Banksters.

King Johnny for open line Coast to Coast
radio Host - Vote early, and vote often!

-

Christ the Jew=Elite Globalist

Alex Jones is confronted with a mirror false accuser
http://www.youtube.com/watch?v=G_MV0RDBRZU

/ / AJ is not into connecting.

He is making money by spreading fear and
paralyzing people \ \

Alex, my friend, don't lose the cool.

Why do we need to rely on anything
but a fair sounded argument? Look at me: my
word's would suffice in dialog with US, the
Public, if America would demand we speak
openly on Coast to Coast with the facts of
criminality present in tyranny - all with only
needs to drop threats of fists-in-cuffs
against war criminals for public trial. I've
never threatened charm against anyone but
zionist torturers, mercenaries, and those
"Christian" soldiers who kidnapped young
barefooted Iraqi children and hurt them as
the innocent on video tape as sexual deviant
fascist nazis who 'believe' they are lawlessly
un-accountable to God and Man. You have to
be one serious un-arrested SOB before I'll
talk of cage.. well.. there you go. It really
doesn't help OUR cause to be a tough guy
against another wanting open dialog for
Justice. ? right? All for open national
debate in America, raise you voices! Or
don't and fall the consequences of further
ignoring my freedom call for liberation.

King Johnny

The "9/11 Missing Links" trap..
http://www.youtube.com/watch?v=FdmiB4W4YuI

/ / The "Jews" started the 9/11 Truth
Movement....(?) Oh, that's rich! \ \

Look, blaming "Jews" would include innocent
persons, oh like.. Christ. A Zionist though,
states openly the will to TARGET for robbery,
or first degree mass murder, innocent
children, as corporately acceptable being
Satanic enemies of God and man. Remember:

Israeli ACTUALLY targeted Jews in northern
Lebanon with 7,000,000 land-mines. And Condi..
is near the biggest, documented war criminal
of history, and she's a .. .well.. a war
criminal who pre-planned 911 with her "TOP
SECRET" plan to invade afghanistan for Enron.
If she was "Jewish" or otherwise, she'd still
be found a war criminal who pre-planned.. blablah

A MEMORANDUM OF UNDERSTANDING TO KILL MORE
http://desertpeace.wordpress.com/2009/01/20/a-memorandum-of-understanding-to-kill-more-pal
estinians/

/ / Dr. Condi was very smart when she declared
at the outset of the most brutal Israeli war on
Gaza that it was the Palestinian side which
is held responsible for violating the six
-month truce. \ \

She lies, Innocent Christians die.

-

Geithner's Toxic Debt Plan So Good,
Citi and BofA Can't Wait to Get Started
http://finance.yahoo.com/tech-ticker/article/220758/Geithner%27s-Toxic-Debt-Plan-So-Good-C
iti-and-BofA-Can%27t-Wait-to-Get-Started?tickers=BAC,C,GS,JPM,XLF,FAS,SKF

/ / We're paying enormous amounts to free them
from their toxic assets, and they buy more? \ \

So the 9.9 trillion wagered on this, faith based
quick-fix gamble, contains even more, lose-lose
propositions? (The private banksters do not cover
our loans is the big why of whys here) So why pay
to stay without questioning the cost of this not
winning strategy, as the official goal trumpeted by
even richer Congressmen? OH yeah, so the Private
Banksters can be talentless trillionaires who
buy or sell our favor, with cash bribes on you
going for somewhere, far below wholesale. Leaving
WE, (as God and Humanity), to eek out a lesser
than meager existence to pay them back for every
cent we gave them freely, plus interest of course.

Raise your hands: who's in for continuing this
way without themselves present as accounted for?

Did you know: this latest bailout of AIG, is
the FIFTH given from the public as still not
accounted for either? Once, their idiots, twice,
your the idiot, five times is to be somewhere
past what was once factored as purely theoretical.

(fOo|x)*5 - the irrational expression on how dumb
the public can succumb, before dreaming something
even dumber, is beyond the possible.

Holy man.

King Johnny for open line Coast to Coast
radio Host - Vote early, and vote often!

-

Nader: Seven Steps the Obama Admin is NOT Taking to Fix the Banking
Crash, Why Not?
http://www.organicconsumers.org/articles/article_17257.cfm

-

bible.cc/luke/21-15.htm

Notice 12 versions - which one is right God
asks the religious in slanged broken English?

-

UN: Israel broke six-month truce in Gaza
http://atheonews.blogspot.com/2009/03/un-israel-broke-six-month-truce-in-gaza.html

WAR CRIMINALS!

Again, understand, Israeli NAZIS murdered 239
Police Officers who were just trying to defend
our families. The NAZIS also specifically targeted
innocent women and children for mass murder as
Satanic. THEY CONFESSED TO TARGETING CHRISTIAN
CHILDREN - then stated it was pro-zionist Hamas'
fault. Please, allow the godly men and women of
Humanity to speak freely in America, as open
speech dedicated to a freedom currently dying
as enslaved at the hands of the neoconner
corporate whores.

U.S. partner, not Hamas, firing rockets into Israel
http://www.palestinianmothers.com/profiles/blogs/us-partner-not-hamas-firing

/ / The probe found the Islamic Jihad rockets were
actually fired by Fatah. \ \ Whom Israel in response
to the confessed by all to be true facts, murdered
innocent Christian children in Gaza as war criminals.
Actually claimed it was regardless who shot the tin
can rocket that struck no one harmlessly. Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

WHY IS AIG SO IMPORTANT?
http://prorev.com/2009/03/why-is-aig-so-important.html

-

Your buying "TOXIC ASSETS" wake the kucf up
man.

I DEMAND America's greatest enemy, George Noory,
grant yourselves open lines for remedy through
understanding, or don't and listen further for the
demon to openly lie cheat and steal from your life.
The bankers, who are ready to accept another trillion
dollars plus from giving Americans don't cover our
loans - they don't. Before the bailouts started, 99
percent of everybody stated it was dumb to bailout
bankers who's only job is to take our cash for free
as it was. George Noory, the demon who states Laden
did 911, and openly champions murdering innocent Peoples
with war crimes for stolen cash profit doesn't believe he
has a problem with staying happy with America's demise,.
American! You had better speak louder than the Coast to
Coast radio hosts who refuse real Justice to prevail, for
it is now YOUR lives on the line, not just US innocent
Iraqis or Afghans, or the made illiterate nazi teen
grunts of the Air Force who bomb Our Humanity
indiscriminately routinely without apology as the ungodly.

I want Justice, and I want it now for all the victims
of 911. Americans be damned, we want Justice, and We
want it Now.

Barack Obama Pimps the Bailouts on Jay Leno | 2 of 3 | 3-19-2009
http://www.youtube.com/watch?v=huSQCZsq-Ec

'It was all perfectly legal."

No it wasn't. and besides, the private bankers
don't cover our loans. We need to work for
open communications Coast to Coast to remedy
a workable solution through factually based
dialog. Rush Limbaugh need not apply, but he
can if he wills to garner ourselves some
cheating splats streaking repeatedly as cheap
slap stick Johnny style. Rush said yesterday
that stealing trillions from suckered America
is free market capitalism as a prime example.
Again We defeat Limbaugh's COMMI lies in
SECONDS. The entertainment would be
illuminatingly useful while the actual intelligent
men and women of Humanity fairly work our
way though this to a better world. Justice
for all.

Ben Stein on Larry King, said something
near this in reference to bailing out
these trillion dollar frauds: 'it's called
extortion, and somebody out there needs
to insist on understanding that that means,
it's hugely illegal, but Congress has
forgotten you have some dying rights here,
but, they can still call in our forces for
Justice, if America wills it.'

Guess what? We might might be the only
peoples on Earth to realize the
significance of Mr. Stein's factually
based stance on this issue of yours.

http://georgewashington2.blogspot.com/2008/10/ratings-agencies-come-under-fire-but.html

/ / Indeed, emails show that the rating service
employees knew they were acting fraudulently \ \

Did we forget that fraud is not only costly, but
illegal as well? I don't believe so for me,
what say you any Peoples, with an ounce of
integrity to publicly insist on Justice winning?
These trillioniares have negligently managed
to dereviate us into holding empty money bags that
contained our once great wealths. Now, after
stating they "LOST" our money, somehow thereby
that means we 'grant' them to lose Trillions MORE!
into their own private pockets, from the Public
as unaccounted for further, (CNN, CBC,
FoxNews BBC, New York Times, and the rest of
the news professionals SUCK) leaving "us" claiming
we now owe them even bigger than ever. We're not
joking about having a serious communications, hot
button issue going un-addressed for questioning
their/OUR continuing failures. Johnny's Quest to
Host the Coast to Coast Radio Networks is Coming
Soon! Go on the Ready.. Justice We Will!

A.I.G. Sues U.S. for Return of $306 Million in Tax
Payments, Some Involving Tax Deals in Offshore Havens
- Uses Taxpayer Money to Pursue the Lawsuit

http://www.washingtonsblog.com/2009/03/aig-sues-us-for-return-of-306-million.html

MP Galloway is banned from Canada
http://news.bbc.co.uk/2/hi/uk_news/politics/7954923.stm

WHO BANNED HIM FOR TRUTH TELLING? Who, as a
serious traitor to Justice as Freedom, would
have the confidence as a demonic liar, to publicly
steal our fair judgement as Canadians on the
willing character of supporting indiscriminate

warfare, killing men women and children as
targeted for heroin pushers, to escape the
neocon enemy liars? Who?

-

Torture Revealed Yet Again
http://www.afterdowningstreet.org/node/40757

How can America continue to remain silent
on these murderous treasons of God and Man?
I don't think we can.

-

Cheney: Don't blame Bush team for economic woes

NWOer Jones: Don't blame Bush the decider

blame the CFR, IMF, Builderburg, Trilaterals,
the Masons, gays, liberals, socialists, wiser
women, wiser men, all without evidence to form
an actual warrant for arrest to defend ourselves?

How can Alex state Bush ain't worth American accountability
because Obama is oh so much worse? If Bush can do
911 and torture without Alex getting his panties in a bunch,
how is it that Obama can enrage him for dare increasing
the non-existent tax on those who "earn" 250,000 or
more in the lawless 'free market', as a stupid evil
ignorant dweeb of a man fearful that America will awaken
without his restrictions on our measurements? A Patriot?.
Can you believe Norris states a problem with a capital
gains tax? Do you People have any idea on how truly
wicked evil that is? ANY? Hedgers have cleared as
much as a trillion dollars personally screwing with
our businesses by nickel and dooming everything, and
with BUSH, have paid zero income taxes on such insane
cash withdrawals. While you as an American worker, who
actually works for a living, have paid your 'necessary'
taxes, and will continue to be forced to comply
further laboring, all to pay for the likes of Presidente
Chuck Norris, and his deeply proud ignorances on Economics,
Justice, Maths, and Religion. Like fellow multi
(b?)millionaire Ron Paul, who claims no call for Constitutional
protections available for demanding the arrest of Bush
and Cheney for high treasons, including the documented
actions of mass murder in America on 911. Never mind the
millions of INNOCENT bombing victims by the bushite nazi
savages of the amerikan air forces Ron states died as
an American police action. HEY! Bush wasn't even elected
and Norris with Alex Jones cares what for defending
American Liberty? Alex WILL continue to sell America out

with George Noory for more money. How much money does
America need pay Alex before he will allow the knowledge
of Bush closing police investigations on 911? How many
to die at the hands of censor Alex, who claims George Noory
is anything but the demon enemy he boasts daily with
his continuing lies to con the teen grunts further for
deaths? How much to allow Americans know the Iraq war has
no cause to still die America for we ask??????????????????

/ / Obama: US Can Detain Americans Indefinitely
Without Charge \ \

Err.. no we can't, for that would be criminal.

Bonus & Retention Payments for AIG Crooks

/ / has been paid out to trading partners such as
banks and municipalities in the U.S. and abroad."

Think about that: billions in US taxpayer money
was transferred to foreign banks! No one even
asks how shipping cash outside of the country
will help the US credit market or the economy.
And isn't that what the bail out was all about? \ \

Wow. We are too dumb to continue without shame
for our failures to demand some inter-national
accountability. How to? George Noory doesn't have the
right to play us further for death in tyranny, with
his continuing refusal to allow US speak
freely on the evidence that directly implicates
Bush and Cheney for high treasons. For bankers
that do not cover our loans. (So why pay them for
nothing but a blind hope they'll lend some back at
high interest?) Water? Food? "Who agrees on sodium
fluoride in our drinking water - let's talk"?
I WOULD ask as the NEW! Coast to Coast Radio Host.

/ / Goldman Sachs, which paid out a company record
$11B in pay and bonuses after grabbing $10B
from taxpayers. \ \

THIS IS FOR REAL.

-

Iraq dossier emails ï¿½devastatingï¿½
http://uruknet.info/?p=m52655&hd=&size=1&l=e

They knew they were CONNING us for murder.

-

"450 MILLION in AIG Bonuses to be paid,
not the reported 150 million"

Groups Request Special Prosecutor for Bush, Cheney, et alia
http://www.nlg.org/news/index.php?entry=entry090224-110217

Ratings Agencies "Sold Their Soul"
Joining Wall Street and the Government

-

Bush Whores of Evil are Enemies of American Freedom

http://firedoglake.com/2009/03/13/its-glenn-becks-we-surround-them-friday/

/ / 'No one is above the law, except the Bush
administration. Oh, and dissent is patriotic --
unless I disagree with you. \ \

Yet, near next breath, or the one before, he'll
tell you what all Liberals think. Or all socialists,
or... blahblah Someone should ask him what Christians
think about letting the mass murdering LIAR Bush escape
Public trial for high treason by conning teen grunts who
are now dead. The bushite 'mind control' slaves work
to divide our innocent masses, to have US falsely
believe we are not united by common cause. Justice.
The reason the NWOer, elite mouth pieces don't like US
speaking freely, isn't because they could disagree
with US in public, it's that they don't want America
to learn what a real man is that defends his family.

Chuck Norris ï¿½Ron Paul was Rightï¿½

On pot okay, but on what else? 911? the Iraq war crimes
of liar Bush? Banking? Social Security? Health Care?
Freedom? Trade? Rights? The Republic? We don't think so,
and Norris ain't talking honorably to defend our rights,
because we know, he's a total sell out dysfunctional
illiterate loser to the military complex beyond his
reconin'. He'll kill any American teen with an
un-constitutional con to make the ungodly lawless
zionist enemy traitors richer as unholy thieves, just
as long as we don't make him out to be the COWARD he
is, still warring for the French to oppress The innocent
Peoples of Vietnam. I mean really, where is his
apology on targeting millions of innocent women
and children for mass murder as a Satanic LIAR? WHERE?

Headzup: Glenn Beck's "We Surround Them" Cult
http://www.youtube.com/watch?v=kFFt0S-XApI

/ / Obama wants to improve the health and education
of the American people, HOW AWFUL \ \ Also officially
stopped NAZI Military Commissions, but the bushite

"LAWLESS" enemy, as TRAITORS, continued with more false allegations against the innocent. Death to the bushite torturers of EVIL, death to the enemies of free men who want Justice.

www.911missinglinks.com/

Chuck Norris, The Illiterate Baffoon, 2009:

/ / "Texas has yet to learn submission to any oppression, come from what source it may."

That's actually not true. They drink Dr Pepper here. Dhimmi Peppers, I call 'em. Dang, now I'm on President Chuck's enemies list. \ \

Texas? The State that openly rapes children without arrests? Texas? The State that released a first degree murderer without charge, while executing men not guilty of anything, AS ALLEGED? blahblahblah.

What does Norris know of American freedom?, of liberty? Squat, for he is widely recognized as a dysfunctional illiterate who's made that claim proudly for decades. Again, Alex is 'hiding' his refusal to stand for American freedom with the facts he has apparently completely forgotten of, facts against the Neocon bushite lying nazi traitors of CRIMINALITY. Condi's plan for Afghanistan is the probable cause for the crimes of 911 going un-addressed as officially planned. Bush closed 911 investigations immediately then claimed if we tried to form our own conclusions, we would all be the terrorists for it. (Bush gave zero basis to form his therefore FALSE allegation as the for real evil incarnate Antichrist enemy of Man) Alex doesn't want American families to know this INDISPUTABLE godly truth from the actual Son of Man. For YOU to consider freely for open discussion to win every challenge we will for the defense of real liberty. Alex can't have this for US because, he'll look as weak and dumb as he TRULY is to freedom's actual call, a place where our evidence speaks for itself, as the Public empowered with Justice Willed in All.

(I called NWOer Jason and told him he should learn of the fact that the Bushmob doctored the NIE on Iraq as an act of treason to con teen grunts for death, and he instead of thinking as a free man would, hung up on me calling US all just jealous of his success! over the needless deaths of American soldiers!! - 'besides Bush is just a puppet'. A victim of Alex's very real 'mind

control' to not be a free minded Patriot, but blindly
a whore for the escape of the Neocon traitors of Satan.
Reminder: I along with several other real patriots had
this case sewn up Dec 2001 - a time where Jason was
rooted lawlessly for killing innocent Afghans. However,
at least he's almost trying.. THINK: The loosechange
crews have never, that I know of, never been even
invited on Coast to Coast for a fast ten minutes to be
quickly discarded as the most popular truthers on the
face of this planet. Alex Jones has no problem with that,
in FACT, he'll as he alway has, spew endless praise for
the demon continuing as he always has a godless traitor.
Truthers! don't let this go to your head, for it can make
you no greater, with risks that you will cull yourself
further away as Alex has, (or Venom) that you know better
than everybody else on all things, for, YOUR A BIGOT, and
the billions of People here are all "Liberals" fighting
to be treated fairly, or "Socialists" who know traffic
lights prevent congestion, and save Peoples lives.)

Mike Rivero, from GCN stated that there were only two kinds
of people in the world: anarchists and freedom believers,
and those that want control... blahblahblah. SEE? He
knows near nothing of Freedom. Justice Mike, where order
is made collectively that thee shall not murder another
innocent other for example. Too difficult to comprehend?
I pick on him only because I've explained this to him
already, personally, very simply. He claimed agreement
at that time, but the knowledge has escaped him somehow,
what with Alex near completely leaving the 911truther
movements in the dark on purposes not yet understood by
the dying American suckers.. Is it that now at GCN openly
will sell Justice=Tyranny, for "Liberals"=are-what-you
-demon-lying-nazi-fuks? Anything to divide our wills
to escape Bush and the Neocons for the mass murder of
Americans in New York City on 911 eh?

Alex Jones would rather have every America sacrificed
as conned by his belligerence for the truly wise like
myself, than learn like every American school boy
should: a person accused of a criminal offense without
any evidence to surmise our conclusion is INNOCENT dumfuk.
Laden is innocent of setting the Thermate in the towers,
and George Noory the cheat, our enemy, the censor, is a
demon lying traitor, who on purpose, tries to mislead
EVERY listener with his betrayal to the cause of any
soldier who has ever served for a cause worth mentioning.
As dying for. So many people have been murdered and the
demon can only express his happiness for our continuing
downfalls left undefended by freedom practiced. Look out!
here comes Bigfoot for the 52,000th time. Who is it this

"American" who claims George Noory the traitor is anything
else but? SEE? I want open dialog, Alex, the repug coward,
the bigot, wants the tyranny of censorship to escape Bush
and the Neocons for the provable crimes of 911 in New York
City where thousands of Americans were murdered. MURDERED.
Bush closed investigations. WHAT IS IT THAT YOU CAN'T
FIGURE HERE? Demand open communications above the NWOer
shills of GCN rolling in millions donated by the dying,
who bark against REAL Patriots, 'Bush and Cheney are just
puppets' for directly being criminally complicit for mass
murder in MY America. Who am I to speak such truths? The
one and only, King Johnny.

Canadian Activists and Lawyers United for Justice:

Canada must bar or prosecute Bush for torture,
and mass murder. For he is a war criminal who
lied that Saddam wouldn't let our inspectors in.
And, with Cheney, closed 911 FBI investigations
before we were finished nabbing the actual
suspects for mass murder - that's a no-no where
we're from. See? I'm a strict Constitutionalist.

Canada must bar or prosecute Bush for torture
http://www.ffwdweekly.com/article/news-views/news/canada-should-bar-or-prosecute-bush-lawy
er-3378/

/ / The law says foreign nationals who have committed
war crimes or crimes against humanity, including
torture, are ï¿½inadmissibleï¿½ to Canada. \ \

We are being spoon-fed stupid again...
http://www.atlargely.com/2009/03/we-are-being-spoonfed-stupid-again.html

/ / Moreover, defying President Obama's ruling
putting a halt on all Gitmo military commissions,
the judge on the case not only accepted this filing,
but also released it to the public. \ \

Cofer Black admits to torturing KSM for years,
to get him to confess to near 50 terror events
spanning 20 plus years, TERRORIST CRIMES, that
Cofer has highlighted for US as still incomplete.
Wonder why? No, I mean I'm wondering.. anyway,
torture is illegal and warrants the death
sentence under Reagan's "War Crimes Act", while
Blackwater mercenaries are first degree mass
murderers who will not escape the Justice of
the American Patriot Freedom Fighters. Down
with lawlessness. 'Lawless' mercenaries will not
be tolerated in a free to be world of respect
for our fellow men. Praise God.

Obama Doesn't Have The Right - Just Like Bush Didn't Either
http://groups.google.com/group/alt.politics.bush/tree/browse_frm/thread/52a9c36cff56f27f

-

March 12 - 2009
Alex Jones "Liberals think Obama is God."

A younger, wiser
Alex Jones 'we gotta get beyond the left wing
right wing dichotomy'

Again, he constantly works to DIVIDE the
innocent masses, to escape the Neocon
bushmobsters for mass murder on 911.

CNN says Ron Paul charged with earmarking for his district
http://www.youtube.com/watch?v=bbca34MS8LI&feature=related

Read the comments, and then know: Libertarians
have like near zero understanding of their own
mindlessness evil doings. How difficult is it
to spend ten minutes reading what an earmark/rider
is? It is a criminal theft is what it is. Ron
states the system is corrupt, so he's just doing
what corrupted politicians do. Thousands of
earmarks totaling billions and billions will go
completely unaccounted for, that you as a Libertarian
sucker NWOer pays for blindly. Nobody in America
is allowed to know where the money is going, unless,
you PERSONALLY go down to some hidden office in D.C.,
without recording equipment blahblahblah..
CNN has lightly covered this issue a year or
two ago. But see? Libertarians can't be bothered
to read.. Listen to "Free Talk Live" for ten
minutes, then know, they really couldn't care for
defending YOUR dying rights. Example:
NO BULLSHIT - FTL hosts last week stated that
slave laborers who manufacture to compete for
American dollars, who don't like their living
conditions, (in perhaps a military dictatorship),
can just simply quit, and move to America. Why so
dumb? Because as idiot slave ant ideologues, they
spew blindly being hypno muggers, 'governing is bad',
(traffic light techs, and murderer arresters included!?!
The truth is they actually HATE wise men, that are
greater in every way that their pathetic sell out
of Freedom and Liberty for stolen gains - they have
no true talents!)

The scariest thing about it, is that nobody even
cares enough at GCN to phone in and call them
qwackers! No, like OPENLY fascist ENEMY George

Noory, near an endless stream on how bright to
fellow anarchists they pronounce to be, as being,
corporate nazi whores, whores silent to war crime
offenses committed in America's stolen name.

FBI Believed that Bombs Used on 9/11
http://georgewashington2.blogspot.com/2009/02/fbi-believed-that-911-involved-bombs.html

/ / Indeed, the FBI told a reporter for
USA Today that FBI agents believed there
were bombs in the Twin Towers. \ \

Awesome. Where is CNN and CBC here? Is
this an issue of life and death or no?
Who are they to judge OUR lives unworthy
of defense? I am King Johnny. Support my
demands for open communications above the
NWO shills who bark Bush and the Neocons
must be allowed to escape our Public
authority.

A caller asked Alex what's up with
his non-existent call for Justice,
and Alex responded that Ron Paul NOW
supports the arrest of Bernake. Boy,
we'll all have to look out for that,
considering Ron thinks teen grunts are
dying in Iraq as a police action, not
to rob and kill America for war crimes,
escaping the Neocon. AND, Ron of course
does not support arresting Bush for
treason as a liar that Saddam wouldn't
let the inspectors in.. Ooops, that's
forbidden the mind control 'experts'
of the NWOers.

Michael-Hudson.com - A REAL Economist
http://www.youtube.com/results?search_type=videos&search_query=%22Michael+Hudson%22&search
_sort=video_date_uploaded

kucinich.us - A REAL Politician
http://video.google.com/videosearch?q=kucinich&um=1&ie=UTF-8&sa=X&oi=video_result_group&ct
=title&st=day#

Look, anyone in government who doesn't support
Kucinich's bill where the FR has to be accountable
to the American Public, is a treasonous scoundrel
who wants to sell out American interests for more
Criminal sacrifices. THINK: they took the bailout
money for THEMSELVES!

SuperNews! - A Night with Ann Coulter
http://www.youtube.com/watch?v=KmLJDrsaJmk&feature=related

Ann is like these NWOers some what eh?
Anything to escape Bush and the Neocons for
the mass murder of Americans. Ann actually sounds
near identical to Alex's excuses for attacking
Liberals, Socialists, gays, do gooders, anybody
he'll demonize to divide our voices for Justice
against the guilty parties of 911. (he's even
recently said some derogatory words against
the equality of Women's rights if you can believe
it!) Condi however, he has near never even
metioned but for to quickly pass! The 911 witch
who ordered not only the killing of Americans
for the criminal Neocon plan of plunder through
the mindless grunts of the military, who
lied daily about Iraq's wmds, but also, was
the sole person responsible for ordering seven
million land mines to be dropped on Jews in
Lebanon. 1441. When has Alex in his entire carreer
expressed interest in defending Palestinians
from indiscriminate slaughter supported by
Repuggers and Dems alike as Proxies for Satanic
godless war crimer Israeli? Is it because it
isn't popular to defend an innocent other in
Guns for brains Texas where rapists walk free
and innocent men are put to death without a
whisper of concern from the Chuck Norris' of
that world? Alex actually stated that the sound
of the bullets going into the backs of those
two innocent Americans was 'the sound of
Liberty'. Or, in other words, has Alex
supported arresting all AIPAC members as
accsessories to mass murder and blatant
treasons against the good old red white and
blue? Of course not, but demands he is US
fairly.. how so bro?

Mossad linked to 9/11 attacks: Report
http://www.presstv.com/Detail.aspx?id=87982&sectionid=3510203

Justice we will.

Four largest TARP recipients spent billions
http://rawstory.com/news/2008/New_memo_details_questionable_transactions_of_0309.html

/ / The Goldman Sachs Group, which received $10
billion in TARP funds at the end of October, saw
fit to spend $2 billion earlier in the year on the
repurchase of company stock, which resulted in
an increase in company share price. \ \

Now, are YOU still going to refuse to demand the
Coast to Coast radio network stop working to
kill Americans for evil stupidity through the tyranny of

censorship, and instead, allow open communications
where John can host for dialog? Again, GCNLive will,
as largely bigots, will mimic daily what ALL "liberals",
or "Socialists", 'think' as fascist Commies - blindly
being derogatory to divide our innocent masses, OUR
WILLS, to start arrests with the traitors Bush and
Cheney - for PROVABLE crimes such as MASS MURDER on
911 by simply closing outstanding investigations.
The NWOers are the 'unstoppable' NWO, who they claim,
we can not bring formal warrants against ourselves.
The Iraq war is a needless war crime of dead
people that has no need to be, (why bomb
where you can go anywhere without delay)
a crime that all GCN hosts currently will forbid
communicating such knowledge to defend the
lives of sacrificing teen grunts. Why does not
America demand Coast to Coast allow the evidence
of 911 being ACTUALLY orchestrated from Condi's
office with her pre-invasion of Afghanistan plan for
Enron, (as so reported by MSNBC.) be openly aired
for grievance? Who's freedom does the NWOers defend
by blaming without needs for forming probable cause?
People who blame other INNOCENT people with labels
concocted from the broken minds of bigots? Again,
the bartender from the "CFR", isn't guilty like Condi
from the "CFR".

Wake up people, we are under attack by those
who refuse US Justice to win Freedom for anyone.

Johnny for NEW! Coast to Coast radio Host!
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http://www.ae911truth.org/

-

Obama to Invite The Wealthy To Invest in The Bailout
http://www.washingtonpost.com/wp-dyn/content/article/2009/03/05/AR2009030503762_pf.html

'Who does this actually make sense to?' I would
be calling as the Host to the Coast to Coast radio
network - vote early and vote often.

-

Fed to Taxpayers: Up Yours! -- Insists on Hiding Bailout Data
http://wakeupfromyourslumber.blogspot.com/2009/03/fed-to-taxpayers-up-yours-insists-on.htm
l

Who cares in America? All the bushwhores like
Alex Jones love George Noory for forbidding open
communications in America, while championing wars

against US as innocent folks all to further escape the TRAITOR neocon LIAR war mongers for the crimes of mass murder on 911. George Noory HATES America to have Justice where a man like me could explain the errors of a bushite's lawless ways in seconds, and America can not be granted such wisdom to be freely expressed where the good guys win. Sadist Ron Paul wants to gut social programs blindly as a corporate fascist, while claiming 911 was committed by bin Laden - and, shockingly, (when you consider the evidence available) that the Iraq war crimes of rape, torture and mass murder, are actually an American police action to defend God's world - and Alex has ZERO problems with those demon lies, and won't let ANYONE express the facts on such History. To think that Alex insists he and Ron Paul leads our "freedom" movement! Alex wants to gun down innocent men in America as boasted, and RON WANTS TO GO A GOLD STANDARD, BUT DOESN"T WANT TO RECOVER THE STOLEN TRILLIONS. Who can afford this continuing deliberate ignorance of Alex Jones and the bushwhores, still asking for our dwindling money to fight for anything but Justice? Who? How much will it cost America to donate to Alex Jones to afford US the public knowledge that the Iraq war is a war crime? Or that we have video of iron flowing like water from the towers? How much?

Bushwhoring Enemies of the American Police

What a demon enemy of life these bushwhore enemies of American Liberty are eh? No concern whatsoever, for all the teen soldiers conned to die for those who committed 911 in NYC. The millions of bombing victims, the tortures, the rapes of American women, STILL, TO THIS DAY, left undefended by "the law". Evil enemy of everyone these demon fuks are. How difficult is it, to understand the facts they feign complete blindness on? They WANT to con you as the coward to life they are, willing to kill America to make their antiChrist lawless enemy Mr. Bush happy.

-

'9/11 Conspiracy Theories Ridiculous' - Al Qaeda
http://www.youtube.com/watch?v=Q_OIXfkXEj0

-

Thom Hartmann - Swiftboating Social Security & Health Care Reform
http://www.youtube.com/watch?v=bZnwTrCJ4eU

The problem with America is they don't
realize how many great ideas come from
the one and only Thom Hartmann and Co..

Banks Use Your Bailout Funds As "MOB" Tax Havens
http://www.youtube.com/watch?v=SzcJwt_aj9o

This is unreal to see America victimized to
die this way. They just refuse to raise their
phones to demand open communications on the
Coast to Coast radio networks to save
themselves. Justice will be done.

-

Emmylou Harris - LIVE - Hardly Strictly Bluegrass Festival
http://www.youtube.com/watch?v=jxk0zEELbPs

Doing "Get Up John" ~!

-

INTERPOL REJECTS CALL FOR ARRESTS OF WAR CRIMINALS

/ / INTERPOLï¿½s Constitution strictly prohibits the
Organization from making ï¿½any intervention or
activities of a political, military, religious or
racial characterï¿½. \ \

Then, what the fcuk are they good for to not speak
against clear war crime injustices against God and
Humanity? Who pays for this without thought to
question? YOU DO.

Alex Jones is a Bushwhore

Alex Jones stated today the reason why Ron
Paul constantly LIES to America, is because
he needs to play politics. Yes, he like Alex the
censor of Truth, does not have the intellectual
skills to ACTUALLY defend his silence of a
grunts lawless position. 1441. American grunts
in Iraq are dying for the escape of the Neocons,
as NOT police officers trying to "police the
world". Understand: Ron Paul actually sells bin
Laden is the target for the crimes of 911. And
Alex Jones, who we know knows better, refuses to
defend Freedom's cause for Justice. No, today he
told US he sides for a Con because he doesn't
want America to openly communicate the facts
to save our souls. Again, a bushwhore who
believes Mr. Bush is above all the laws of
the Universe as the Conservative bigot's false
deity. Again, Mr. Bush closed 911 investigations
as godless traitor. We, as Humanity, demand the

demon enemy of Life, George Norry grant US the
freedom to speak freely on the evidence available
directly implicating the bushmobster Neoconners.

A Jew Speaks Out! - "All the answers are here."
http://www.webfilehost.com/?mode=viewupload&id=415673

'Israeli Military Attacks the Civilian Police Force'

Zionist Nazis CHOSEN for Public war crimes trials.
War crimes warranting death by Jewish firing squads.
Only Black Jews will be asked to pull the triggers
on the war criminals Convicted of mass murder. The
Zionist NAZIS confess to have broken the truce, to have
then targeted Christian School girls for deliberate
satanic mass murder against God ourselves, the Innocent.
Trying to have ourselves blame all Jews, instead of
the demonic zionist threat against Humanity. These be
not Jews who steal anothers home, but of that which
The LORD preaches. The Bible "I know the blasphemy of
them which say they are Jews, and are not, but are the
synagogue of Satan."

REVEALED: 'There was no Cabinet debate in run-up to war,'
http://www.dailymail.co.uk/news/article-1158148/REVEALED-There-Cabinet-debate-run-war-says
-Short-Government-refuses-release-minutes.html

/ / The Government is refusing to release minutes
of Cabinet meetings before the Iraq War because
they would reveal there was no discussion on
the issue. \ \ Couldn't even be bothered with
pretending when the cameras were off? Lazy
nazi war criminals laughing at Humanity's
demise for sacrificing to the ungodly Zionist
LIAR gains of demonic origins..

THIS IS FOR SURE TREASON NO?
Reminder: Peter Power did the 7/7 bombings

-

911 WTC7 CBS Breakthrough
http://www.youtube.com/watch?v=vEn_6vqp17Y

Amazing News on Fox - 9/11 was an inside job told to troops
http://www.youtube.com/watch?v=Fbgd-mBdSjQ

9/11: Impossible Speed & Impact -- Busted! Updated
http://www.youtube.com/watch?v=L978nIT-AY4&feature=related

The no planes idea is mostly ignoring
the fact, that we all agree explosives
took those towers down as widely captured.
It's an inside job. The questions are always

cool, (though sometimes wasting time) and
by challenging our conceptions on what it is
that we can prove is vital if we're ever
going to understand that by Bush simply
closing criminal investigations on 911, he's
"officially" assisting in the escape of
those truly responsible for mass murder in
New York City. Why? Well it seems the Neocons
had this planned all along with those in NATO,
and the Chiefs of Staff, to con the dumb grunts
for criminal greeds. You know, a repuglicon.

Johnny for Coast to Coast Radio Host!

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Wizards of Money
http://www.takeoverworld.info/wizardsom.html

This stuff is excellent! They are playing
the odds exactly like the bookies do. It
is actually illegal to do that now when I
think of it.. ! We'll need to discuss this
internationally to gain a better focus.

Your Car Has Been Repo'ed

The derivatives recordings sound fascinating.
I know the banksters don't cover our loans, fraud
from the get go, but these available estimates
going as high as into the tens of quadrillions
are a mathematical impossibility. But for the
the 'value' of something speculated with
OUR assets as truly worthless to be an "investment
vehicle" for our futures. (Like Hedge Funders.) The
"toxic assets" are the crime scene evidence of
monster fraud, where for the sales of paper
arbitrarily determined to be worth zillions,
they took the real deposits as commissions in
the trillions, just like a bookie does but
usually far more fairer. At least that is how
I see it with my limited knowledge on this one
particular scam of the Capitalist Free Market
System of Lawless Corruption Due a Failure in
Real Leadership. - worthless pieces of paper
America has paid trillions already as dahh..
LuCkY WinNaaAhhs. Do you People even know what
a Hedge Fund is? They hedge US out of the Markets
by nickel and dooming everything to undermine the
Market in it's entirety. And, some of these
people have "earned" as much as a trillion
dollars personally in the span of a short few

years under repuglicon misrule. Geniuses? Hardly.
What every Bookie does as a felony warranting
unjustly Life probably. They trade bets,
and take their cuts, paying themselves with the
money the private Investment banks hold, leaving
derivatives as balanced collateral, BUT, a
derivative can have no actual value. It can be
just the rules on how the cash will be divvied on
this next go-around with the suckered. As according
too, to a 60 Minutes spot on this very specific
issue. Now, the bushmob with Obama, CNN, FoxNews
and some of MSNBC have been issuing the blind
acceptance, that buying these "toxic assets" was
a better investment, than publicly challenging
ourselves on where all the actual money went? and
for wHaT?? Manufacturing has been purposefully
outsourced by the Bushmob as treasonous SABOTAGE,
while now, to make up for a small percentage of
the massive job losses, they, to FOOL YOU, include
those who flip burgers as the new Manufacturing Jobs
created to make the numBerts look not so bad - but
for Christ's sake, who even cares enough to demand
CNN to count our Lives as worthy an Ernie or Bert?
..besides, the Private Investment Fraudsters told
US already. Bonuses paid by Public Welfare in
the trillions to actual billionaires, with one CEO
bragging all he needed to do was fudge his books,
and he then immediately qualified himself for 272
million! IS FOR REAL. It was in the Washington
Post. No, nobody was arrested, yet, in fact, I
wouldn't doubt he's going to try for a second
Public Cash infusion to bolster his 'credit' that
you can't/don't/won't know: the magical Banksters
never even cover our loans YOU left for robbed
dead victims - So, needless to say, these new
Inter-National Trillioniares, that expect Ourselves
to pay them back for minimum fifty summed generations,
have been going on one hell of a shindig binge
of excessive excesses, but what about the continuing
"CRISIS" of PUBLIC Banking left undefended by
looting? Giving the banksters any public money is
totally crazy when we think aloud, but more?? is a
recognized crime in progress. Giving public money
to banksters to do what THEY will with our
investment is nuts okay? - even if they lent it
back, of which they have formally refused, but even
if they did, it would still be nuts because where
is the public's interest being defended where they
pocket privately by defrauding near all at 99
percent there also? It's like you EARNING a thousand

dollars, to then be told by the banker, he's
going to charge you a thousand dollars plus interest
for cashing YOUR check at the only bank available
for fifty miles. (Your car has been repo'ed.) Answers:
The depositor should be recognized as the shareholder
- and there should be no private interests existing
to take in between our exchanges for goods and
services. Banks need to be separate from the Casino
frauds which comprise much of what the Market is
today., and a tax for every buy and sell needs to
be re-introduced. Obama, and the Repugs want US to
religiously accept the broke Banker Buildings rule
our Reality by giving of ourselves blindly in huge
error. We can work it out. Ego must be chucked
- facts are facts - and Justice is measured as
Freedom is cherished. In other words: No evidence?
Person innocent. I rulez.

Trillionaires, whatyahfingureeh?

Johnny America for Coast to Coast Radio Host.

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Children sodomized at Abu Ghraib, on tape
http://www.salon.com/politics/war_room/2004/07/15/hersh/index.html

Again, understand: these "American" soldiers
are still being recognized as heroes. American
"Heroes" in the Mansions of Florida going un-arrested
for raping, and/or torturing INNOCENT PEOPLE TO DEATH.
Erstwhile committed criminally, to assist in the
'escape' of the neocon traitors for the crimes of
massive banker fraud, 911 and Iraq. Bush personally
worked to close FBI 911 investigations, immediately
after the terror attack occurred. Criminal. Torture is
still illegal if you didn't know so as an American
victim silenced by Coast to Coast censorship on your
personal value system being sacrificed. Pick up a
phone to champion wide open communications - Justice
for All is Freedom won. Speak for US demanding
international 911 arrests of those directly
responsible for mass murder in New York City.
Starting with Bush and Cheney for obstruction,
and any other that would stand against the
True American Patriot. Justice for 911.

Yours Truly

-

Peter B. Collins on everything goiing onnns - don't miss it!
http://www.mediafire.com/?nncoewod9nz

PBC 3 2 26 09.mp3
-
Fans Get Even With Riot Police
http://www.tooshocking.com/videos/6041/Fans_Get_Even_With_Riot_Police

-

Autism & Vaccines: U.S. Court of Claims
http://www.nvic.org//vaccines-and-diseases/Autism/courtclaims.aspx

The PROVEN fact here is that, without DOUBT,
Mercury causes brain damage one hundred percent
of the time. NO DEBATE. But Alex's NWO will blame
anyone but themselves for this communications
failure. NOT DEMANDING arrests against those in
government LIKE BUSH, who have consciously allowed
this massive criminal assault against all children,
continuing against our better judgments. Realize:
Alex Jones actually believes George Noory is anything
but a willing traitor who boosts in tale, propaganda
lies of death through terror to sacrifice American
GI Teens, all for the escape of the 911 perpetrators.
So again, I ask all to question, what is Alex's point
in not mentioning the crimes of the Bush Administration?
The Courts are being told to rule on whether a proven
connection can be found from vaccines to Autism, where
OUR Court should instead be ruling, mercury is a neural
toxic heavy metal causing irreparable brain damage.

-

Bird and Fortune - Subprime Crisis
http://www.youtube.com/watch?v=UC31Oudc5Bg

-

Bobby Jindal Gives A Pathetic Speech
http://www.mefeedia.com/entry/bobby-jindal-gives-a-pathetic-speech/14744063

He looks at US all, like naive five years olds no?
Unless he actually talks like that all the time,
then we maybe should be asking, who actually here
voted for this guy 'publicly' by under estimating
on our present economic dilemma, including
absent Justice for You also? Repuglicons on
TV should learn about themselves firstly,, instead
of denying our wiser, stronger voices. Instead of as
lackey substitutions, who jack for the murder of innocent
others portrayed 'suckered', you lost to blindly whoring
for the war criminals in Israel. The 'lawless' Bush
administration DOCTORED the NIE on Iraq, while Bush
LIED repeatedly that, "Saddam wouldn't let the inspectors
in." Assisting in the escaping the TRAITORS responsible

for the crimes of 911. Bush closed FBI investigations.

/ / btw jindal was horrible...came across so
phony...but if that's how he really is...yikes! \ \

US repeating old Iran lies at UN
http://www.presstv.ir/detail.aspx?id=86904&sectionid=351020101

THIS IS FOR SURE TREASON NO?

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Alex Jones is a Fraud

/ / A bank that received $1.6 billion in bailout
money just spent a fortune last week in L.A. hosting
a series of lavish parties and concerts with famous
singers ... \ \ While CNN with George Noory can be
only happy here watching America robbed and left for
more dying victims? Yup. Who cares? Alex doesn't for,
George Noory is a 'good guy', and what ever you do,
never encourage the truthers to organize for public
debate against the evil enemy forces of the Satanic
LIAR Coast to Coast radio programmingers. Why, because
Alex Jones THE LIAR, would lose, and Americans would win.
Again, never forget, it IS Alex and George who silence
those who truly speak for Justice in America. "Bush is a
puppet" is the call of a hypno mugger, who cowardly,
refuses to fight against those who PROVABLY commit lawless
acts of murder in America. Not a Jewish conspiracy, you
demon fuks who deny George Walker Bush. Alex Jones stated
today as a demon enemy of GOD, that the bible states
the AntiChrist will appear posing not as Bush. I again,
demand Alex PROVE his NWO FRAUD against the Son of Man.
I want free communications to face any or all who
disagree that the Bushite promotes lawlessness as
acceptable, while Alex wants to lie as a cheat to
only pretend his rights champion ours dying. No evidence
against the accused, is US being abused.

the banker does NOT cover our loans

/ / Alex Jones on Coast to Coast tonight to speak Bush the mass
murderer, is just a 'puppet' for lying that Saddam wouldn't let
the inspectors in WITHOUT CORRECTION \ \

He's a bushwhore. A soul who refuses others to actually
understand their own conclusions. It's all about Alex, and
not about Justice. Bush closed 911 investigations. He'll
go on and on about the new bank of banks their selling
against "all" as a diversion to understand, the
international private bankers have stolen trillions as
of late, and believe Alex and George ain't gonna let

Americans know: The banker does NOT cover our loans, and
even if they did, WHICH THEY DON"T, why give them our
own money to only hope that they will lend a small
back to ourselves at high interest? The derivatives are
crucial in understanding what is going on here, and Alex
is stuck in his bullshit, nwo crap, blinding him from
understanding how the scams went down. A derivative has
no real value, unlike ARGUABLY, everything else comprised
of 'free market' highjinx. It's like me selling you a
piece of paper with nothing special written on it, for
ten billion dollars. NOW; why would you do that? Because
the American suckers are on the hook for the loses because
Alex doesn't want smart people to speak. Steve Quail is
as real a demon enemy of God and man than anyone. "He talks
directly to God", and 'knows' consciousness can be
imprisoned into Military Intel. Comps., but doesn't know
Laden as falsely accused - delusional enemy of rational
thought denying, like Alex Jones, Justice and Truth.

Justice in The Gun State of Texas

Texas Prepares to Execute Man for Driving a Car Near Scene of Murder
http://maritimes.indymedia.org/news/2007/08/21460.php

-

Bushite Alex Jones "Obama is so much worst than Bush was"

So, don't arrest him for treason that murdered Americans?
Remember, Alex in eight years did everything he could to
not allow any to discuss BUSH'S crimes spree. Doctoring
the NIE?, prior plan from Condi? Or stealing 50 billion?
I could easily go on for paragraphs on DOCUMENTED CRIMINAL
ACTS - acts that Alex would not allow YOU to know need
defense to save the lives of innocent Americans.

60 Minutes: CIA Official Reveals Bush, Cheney, Rice Were Told Iraq Had
No WMD
http://greywolf.newsvine.com/_news/2006/12/20/489409-60-minutes-cia-official-reveals-bush-cheney-rice-were-told-iraq-had-no-wmd

Dumfuk Grunt "Duh, why are we here to kill
good people needlessly so the bushmob back home can
further rob our undefended families bro? Bro?"

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Now or Never - One Peoples Rise to Power

J. Wizard "The fact that Bush gave you zero evidence can not be
denied"

http://cleveland.indymedia.org/uploads/2008/03/now-or-never.mp3
http://baltimore.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/03/now-or-never.mp3
http://newmexico.indymedia.org/uploads/2008/03/now-or-never.mp3
https://israel.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://www.indybay.org/uploads/2008/03/17/now-or-never.mp3
http://la.indymedia.org/uploads/2008/03/now-or-never.mp3
http://neworleans.media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://indymedia.nl/media/2008/03//50997.mp3
http://newjersey.indymedia.org/media/2008/03//20791.mp3
http://boston.indymedia.org/usermedia/audio/11/Now-or-Never.mp3
http://houston.indymedia.org/uploads/2008/02/now-or-never.mp3
http://imctj.espora.org/uploads/2008/02/now-or-never.mp3
http://argentina.indymedia.org/uploads/2008/03/now-or-never.mp3
http://canarias.indymedia.org/usermedia/audio/10/now-or-never.mp3
http://istanbul.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indymedia.ie/attachments/feb2008/nowornever.mp3
http://media.indypgh.org/uploads/2008/02/now-or-never.mp3
http://www.stlimc.org/usermedia/audio/10/now-or-never.mp3
http://peru.indymedia.org/uploads/2008/02/now-or-never.mp3
http://miami.indymedia.org/uploads/2008/02/now-or-never.mp3
http://www.indybay.org/uploads/2008/02/13/now-or-never.mp3
http://imctj.espora.org/uploads/2008/03/now-or-never.mp3

What's The Point Alex?

Hey! Alex Jones said today Bush isn't guilty of nothing,
but boy, Obama is bad he'll tell you never mentioning
the FACT Bush LIED US into the Iraq war as a war crime. 1441.
Won't allow it. Why? He is a bushwhore, a believer in Bush,
the Antichrist enemy of Humanity who told US if we tried to
form our own conclusion, we would all be terrorists. NO JOKE.
Bush, the most evil man of all History, Alex claims is
guilty of nothing. Example: Bush, is his first days,
STOLE 50 billion dollars. How can Bush (the banker family
tied to Hitler) be above all the laws of the Universe
someone ask Alex. You know, Alex will hang up on any man
or woman who states in question, as he did with Peggy,
a once loyal listener, why he refuses to acknowledge the
evidence of Ron Paul being cheated through a fixed
election. Attempting as a demon, to demonize whomever
phones with such truths - like Ahmad, or Condi's 911 plan
for Enron. Alex Jones is openly a bigot, and a man who
has OPENLY confessed the willingness to murder INNOCENT
Americans - before allowing Justice to rule for the
defense of every American. I want open debate, he wants
censorship, so he can continue to masturbate to the
continuing deaths of innocent Americans. Laughing with
DEMON George Noory who claims Laden did 911, Hamas broke
the truce, and Iran is a holocaust denier. Enron. Has
Alex even ever mentioned it as motive for invasion of
Afghanistan? Never. Has Alex ever stated the Taliban

were simply asking for evidence to form anyone's
conclusion on who was PERSONALLY responsible for 911?
NEVER. THINK here. Even after me sending him email
after email for years. Alex states all who criticize him,
are delusional, because he warns people of poisons fed
the masses. So therefore, every last word I state about
Alex Jones undermining our wanting for real Justice is
correct without argument - As according to ALEX, he is
delusional. Wow eh? Alex is a stupid bigot as a matter
of fact. He'll tell you we gotta get past the left right
thing, (trying to steal my thunder - where i give to all
freely) yet, near next breath, or the one before, he'll
tell you what all Liberals think. Or all socialists,
or... blahblah Someone should ask him what Christians
think about letting the mass murdering LIAR Bush escape
Public trial for high treason by conning teen grunts who
are now dead. Bush PERSONALLY closed 911 investigations
immediately after all. Again, NEVER mentioned by Alex
as important to our struggle to arrest, try, and execute
those responsible for mass murder in Johnny's America.
An America were every Human life is worthy our protections.
Where Alex Jones is NO GREATER than anyone of US. He is in
a popularity contest, while I couldn't give a rats ass
what rupuglicon, or demoncrates think about my wise words
on God and Justice. Great entertainers I am not blindly
enamored with, nor do I believe FALSELY, demon Bush, the
Antichrist, is above and beyond all laws of our Humanity.
If 99.9 percent of godless Americans disagree with me on
God's will to have all neocons with the Bush Administration
arrested immediately for public trial for high treasons,
to hell with them all as they lose their rights rightly.
For, they are not our friends who willingly murder OUR
Humanity for stolen private Banker gains. Alex, a bushwhore,
a censor, wrongly believes Bush is guilty of nothing. A
bushwhore of the antiChrist he is. I mean come on, he
claims all those folks who followed truth mentioned in
the Bible were murdered. How stupid is that????? From
what I recall there was a misunderstanding, and well, that's
about it. How many American "Christians" actually believe a
man of God actually walks this world? How many? Being Gay
is okay with me. I'm not Gay, but still to each his or
her own, as long as your not infringing on the rights of
another to do what ever they choose. I love all children
too much. Real Freedom. GCN advertised HATE for Gay folks,
then at the website, murder - and the station sees still,
no problem with dividing our innocent masses on desperate
attempts to escape the neocons from Justice. That's the REAL
reason Alex states a derision for Liberals. Note: "Liberals"
in Canada are a right wing party that disbanded the RCMP
corporate crime division as perfect example, and! sent a

Soldier to prison for refusing criminal orders. Never allowed by Alex, for his gold dealing boss has a son killing innocent Peoples for Neoconned cash in Iraq today. ALEX WANTS TO CENSOR US ALONG WITH THE ENTIRE BIBLE NOW WHILE MASTURBATING HOW HE IS NEVER WRONG? In his dreams maybe, but not our shared suffering reality. By the way, has Alex ever written for Justice? and why not?, considering he is so greater than all others who haven't been invited on his show he stupidly said two or three days ago, me, and everybody else here globally? Truly delusional he is for not being truthful. Be a man Alex and face me in open debate to defend YOUR idiocy, he won't because HE KNOWS, Americans would win, and we would look the fool as loser. Too cowardly to defend America he is, because he doesn't have the virtue for it, and refuses to hold respect for men like me hugely wiser than himself he works to keep all down for death.

Bush and Cheney are traitors to the cause of American Liberty. To leave them free, is to leave America un-guarded from further transgression.

Patriotic American Navy Vet is tortured by bushite nazi grunts http://killfile.newsvine.com/_news/2006/12/21/491153-white-american-navy-vet-is-illegally-detained-tortured-and-tried-by-us-government?last=1166730840#last_4

Again, Reagan warrants death to all who torture, and a deep hatred for all ungodly in America who support it. Why? Because the vast American public (especially FoxNews treasonous LYING enemies of The People) DO NOT have the intellectual skill to understand what freedom is. Justice. Look at me! they can't seem to talk for Christ's interests, that smart ass know it all, where he thinks he's so ingenious where no one on Earth can find fault with his indisputable simple logic we share EQUALLY. (Bankers don't cover our loans for example) Kill my kids, my spouse, myself, before allowing John to speak openly in the public on Coast to Coast for open debate, all of Americans say in silence censored. Why does America continue to die this way? Because bushites are truly as they claim, stupidly ignorant as treasonous cowards, or as prosecutable criminals, evil people who only want in this world to rob or murder People indiscriminately as enemies to Justice, enemies to GOD, a Criminal. NOT A JEW you fuks! George Noory will tell you freely all about his hatred for our Humanity, he does it near everyday, though People don't have the ears to hear, or the care. Too scummy. That remember! get American GIs murdered by the score with NO REASON AS FOR. Example: why bomb more than a million innocent souls indiscriminately in Iraq, if you have complete unrestricted access to go where ever you will?

And, that Bush, Cheney, Condi and such, knew from day one,
Saddam had all the WMD destroyed as documented fully, as
did I. Documents that BUSH personally stole if you recall
not listening to Alex Jones, Foxnews, CNN, or the CBC.
err. maybe it was Bolton - s-t-o-l-e-n -.
Likely, as a likewise deeply ignorant person, you know
little of Life as principled for individual freedom, and
couldn't care less what this boundless Universe offers
all in reflection, instead, it all about what's in it
for you as a lying cheating thief to this mystery right?
Wanna be a lawless mercenary to murder innocent people
dreaming of becoming a private investment banker, who
never earns a dollar in their entire careers, taking
trillions undefended from Humanity just to see US
suffer to deaths for our continued silence. All you have
to do is raise your phone to demand justice in our times.
All Neocons must be arrested for public trial, along
with near every last member of the Bush Administration.
PUBLIC TRIAL. And Soldiers must learn quick a commander
who doesn't support getting those responsible by following
the crimes scene leads, is a commander deserving of an
immediate firing. Otherwise, what use is the grunt
good for eh?

Again, Ron Paul like near all Libertarians, does not
acknowledge the wanting of Justice for the high crimes
of Banker fraud, Iraq, or 911! He took the "Truther"
money, but refused to support the arrest of Bush for
treasons times 50. Social Security he wants to gut
like Health Care as a sadist who knows near nothing
on how such systems currently operate. Again, he
does not speak of recouping the STOLEN 1000s of
billions from America, or the lives. STOLEN. What
is it that you can't figure here? Fuk ego, FACTS.
We are all effected by suggestion, this is why,
since the dawn of time, evidence has been the
prerequisite to convince ourselves of anything.
Alex's cartoon storyboard, is truly, as measured,
Alex masturbating with our precious times. Think:
Alex doesn't ask Americans why they don't support
the arrest of Bush for high treason because a world
where all are treated equitably is beyond his
understanding as a bigot. He could change, but he
is 'light years ahead of the Public'.. but of what?
All you need do, is every time Alex says "they",
ask yourself, WHO? - then know: the bartender at
"Bilderberg", isn't as FOR SURE guilty of crimes as
Condi from "Builderberg" is. The 911 plan came from
her very desk according to MSNBC, never mentioned by
Alex Jones. Why? You have to be near genius like

me to explain it COMPLETELY without even seeing it.
NOT MAGIC, more like meditation through understanding
our universe is ruled by good ideas. Alex is a man,
a Good man mostly, with some fears countered with
an irrational aggression (not thought through) that
found him blindly supporting the murder of two
innocent men. Not freedom. while I, am of God. An
actual god. The Son of Man as a matter of fact.
I want to tell you how great Life could be, but i
see so very little of words present to survive the
lawless corporate state. I AGAIN, will ask YOU to
forward this post to two People, but will YOU??
Torture is outlawed by warranting Death under Reagan,
and.. it's like the best way to resolve a FoxNews
'excuse' given to illiterate nazi grunts to abuse
ourselves as innocent others. Tell me I'm wrong.
. . KBR rapes American women, or murders them,
and needs to be hunted down by All American military
forces for it, as trialled to death. Including all
commanders of the Air Forces responsible for bombing
our families without causes. And lastly, any that
discourage our grunts from not supporting the arrests
of those that actually did US wrong. Get to it.

-

9/11 - strange facts
http://www.youtube.com/watch?v=MeybdEuf16A&feature=related

Alex Jones on Coast To Coast AM with George Noory P2
http://www.youtube.com/watch?v=F5KHtj_b0Ro&feature=related

"I'm light-years ahead of the general Public in knowledge"

/ / Yet, doesn't know a thing about Education,
Health Care, Social Security, Banking, or evidence
to form our guilty or innocent verdicts on which
war to fight for. And.. can't figure Bush guilty for
treason? Apparently yes, that dumb. \ \

A Den of Thieves - why give to private bankers
who don't cover loans you godless nazi savages?

http://crooksandliars.com/susie-madrak/gop-house-whips-wife-didnt-know-her-b

/ / the firm for which the spouse of the
House Republican whip works has scarfed
up a couple of hundred million bucks in
the banking bailout. Really. (I can
understand why you might wonder,
considering Rep. Cantor's role model
seems to be the disgraced Tom DeLay.) \ \

Private Banking Made Simple

http://www.megaupload.com/?d=0K03GAVY
http://www.mediafire.com/?xo9w32zmfox

Israeli Bombs inflict more pain on Gaza hospital
http://uruknet.info/?p=m51882&hd=&size=1&l=e

DEBATE OVER

/ / Late last week, a federal court ruled that there was no link between childhood vaccines and Autism. But the legal conclusion is not enough to erase many parents' concerns and the debate continues. \ \ Mercury causes brain damage as a neural-toxic heavy metal. Love God why don't you? Alex near always calls his critics jealous, so, are you jealous? Would you rather see every American child murdered, or suffer toxic poisoning, before acknowledging we are without challenge, the greatest minds of our time? Hurt you does it? Can't find a single argument against my demand for Justice, but dying instead, claim my call for freedom practiced is to good is to be true in your dying dummy world censored? It IS George Noory that denies you the respect a person who craves Justice for all 911 victims. Cartoonish Alex Jones, the bigot, sucks.

Alex Jones, "Liberals don't like Bush."for mass murdering Humanity as never elected demon enemy of God he means?

He tries to divide the freedom movement away from Justice for ourselves.

Question for Alex Jones NWOers, wouldn't God, if we existed, wouldn't God, push for a one world government where all are treated fairly through Justice practiced? Yes or no?

America! I am King Johnny.. I am from the Planet Earth, I've come to share the knowledge of Justice in our times on behalf of this, Our Future Great Triumph over Evil.

/ / At 8:51, the flight [175] deviated from its assigned altitude [31,000 feet - therefore cell phones impossible], and a minute later New York air traffic controllers began repeatedly and unsuccessfully trying to contact it."

And one minute later at 8.52, Lee Hanson receives a call from his son Peter. \ \

Couldn't have happened, as is why, these phony "FBI" bushmobsters stole the recordings and don't want the still dying victims to know the truth of the Neocon traitors to God and Justice. Cell phones are not capable of paralaxing above likely a couple thousand. Someone on Earth would likely know the near exact scientifically measured distance as nothing greater than a couple thousand, for why the need to put towers all over our fair cities then? 31,000 feet is a distance of miles! Hint: 5,280 feet in a mile. 5.871212 miles in fact. Drive out 5 miles from your nearest cell phone tower, oh yeah, and don't forget to bring a elevator like aluminum box to stand in, moving 500 miles an hour, then ask yourself, how dumb does a Repuglicon or Obamanaut take US for as silenced to the tyranny of mass murder in my America?

TED SAID SHE DIDN'T HAVE HER PURSE
http://911review.org/Sept11Wiki/Olsen,Ted.shtml

/ / Ted supposedly told CNN that she called him collect. However; once a credit card is swiped, you can begin using the phone to make calls. So, no collect call would have been made. \ \ The allegation also has been debunked by reported to be, Airline officials who stated no public phones were even available on 177. That seems near too far fetched, BUT!, GTE Airphone reports DO SAY - zero call assists were made on flight 177. ZERO. So, how then does she make a collect call then, and why if as claimed, Ted and Barbara were madly in love, would she not know her hubby's personal number?

Remember, Ted was the coke pusher's lawyer in the Contra case, of which Ted, was also assistant secretary to the Solicitor under Reagan. The Contra group if you recall were/are pushing crack cocaine into major cities for plans to undermine the American government for illegal wars against peaceful civilized life as stolen profit. YOURS.

FBI SAYS TED OLSON LIED OR WAS DUPED. NO 9/11 PHONE CALLS
http://www.youtube.com/watch?v=v78ibOa4PDE

The Olson story would make for good horror if it just wasn't so horrific. EVEN I'M SPOOKED. Olson tells of a elaborate drama

where he learns, she without her pursed
cell-phone, has to call through the phone
records of the Justice Department. How did
he forget that fact when first pronouncing
of how she had phoned him from a cell-phone,
or, then from an airliner that didn't have
phones in the cheap seats, nor tear-gassed
upper-classes? The trouble here is that
a small cadre of bushmobsters keep hiding
the evidence on CNN, FoxNews and George Noory
implicating themselves at the crime scene,
as illegitimate "intelligent officers" -
we WANT to know our media voices the voices
of those who support defending ourselves from
the 911 war mongering terrorist enemies.
Evidence is the prerequisite.

King Johnny Speaks Coast to Coast! Answers Everything!
http://www.mediafire.com/?myz0etmzx1y

Beverly Eckert - victim to mysterious plane crash
http://www.commondreams.org/views03/1220-04.htm

It's too bad Alex Jones, and his demon 'buddy',
George Norry forbids Americans to know of General
Ahmad, Bush closing FBI investigations, and iron
flowing from the towers as more important than a
passing fact he might have mentioned three or
four years ago - Alex I mean - George's direct
policy as so told to Alex, is NO INFORMATION on
who was personally responsible for mass murder will
be ever allowed spoken, while he demonizes millions
on hopes for more indiscriminate mass murders killing
mindless teen grunts to profit Zionism's war against
Truth and or God.

Stephen Harper copies John Howard WORD FOR WORD
http://www.youtube.com/watch?v=L8YwJC_nBgw

This is FDR's idea that worked "refinance near zero interest"
So, a working plan could be to create a near no private profit
plan, but a public plan that profit's The People Instead of
Banksters stealing our public authority unchallenged by American
corporate culture for personal private interest left undefended.
The Depositors are the Shareholders! Broadcasting Everywhere.

/ / Provisions to impose a penalty on banks that paid
hefty bonuses and to cap pay at $400,000 for all employees
at firms applying for additional government funds did not
survive the compromise, sources said. \ \ Another sacrifice
to America's "God" substitute. aka magic private banker
zillioniares, who rule the free thought of TV AmerikCo

giving your life without free thought to question.

Why pay bankers more when they DO NOT cover our loans?
Hate US still for speaking truth dying amerikcan dumfuk?

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related
[CNN pulled this A. Cooper report off youtube - accessory]

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever.

King Johnny's "Nazi Israel"
http://www.megaupload.com/?d=QAEXT4G0
(note: History has changed since then)

-

Eyewitness to Shanksville Crash - It Was Not a 757
http://www.youtube.com/watch?v=An_nXpr5K0A

Fake 9/11 Call From Flight 93 Exposed!
http://www.youtube.com/watch?v=L8JV3dJEJmA

-
responsible for releasing millions of American made land mine
cluster duds that will murder as TERRORISTS do,
indiscriminately for decades. Perez, the DEVIL, along with
corporate news zionists, hold those crimes deserve immediate
executions with targeted strikes against the purveyors of true
EVILNESS. Please I beg, give G-D mercy.

http://www.waynemadsenreport.com/

/ / According to U.S. intelligence sources, at the end of
June 2001, the FBI intercepted two phone calls from Grossman
in which he told the called parties to "stay away from
Brewster Jennings . [Plame's TP SCRT Cover to nab REAL
terrorist WMD proliferators by using GOOD policing freedom
skills - with logical arguments, warrants, and everything!] .
. they're the government . . . they're nothing but a
cover." One of the calls was to a Pakistani Inter Services
Intelligence (ISI) top agent in Washington. \ \

So, the ISI was warned by the White House clandestinely, in
June 2001, 'some do gooder cops are on the prowl defending our
interests, looking for REAL terrorists who jeopardize
Freedom's cause, so, you'd better watch out for America's will
power, US might get US, and boy, then we'd be in for one big
hell of a surprise!,. eh?. Are you still with me? Hello?

Is someone else on this line? ... Yyyou'll never catch me.'

Marc "Johnny America" Grossman "Any country that doesn't go
along with US will be paying a very heavy price."

CNN Admits 9-11 Inside Job
http://www.youtube.com/watch?v=uyMIqVfH8zY

Patriot of Great Britain arrested for sending
"7/7 Ripple Effect" to judge and jury members
http://truthaction.org/forum/viewtopic.php?t=4999

/ / Anthony John Hill, originally from Sheffield,
was arrested on Carrig Street in Kells this morning
on foot of a warrant issued by the authorities in
Britain.

It is alleged he sent DVDs entitled "7/7 Ripple
Effect" to the jury, the judge and members of the
victims' families. \ \

All of Great Britain joins US in demanding
the "Judge" to face trial for death sentence.
Peter Power "did" the 7/7 bombings. Ask
Netanyahoo, he knows.

-

Report Of ï¿½People Planting Bombsï¿½ on 9/11
http://www.prisonplanet.com/report-of-people-planting-bombs-on-911.html

Why isn't Happy George Norry, Our Enemy, covering
this everyday as an important subject to defend
American life he holds truly in contempt?
Again, Alex Jones leaves every American to die
victim to his NWO, before he will acknowledge
TRUE evil in our world. George Noory, the evilest
ACTUAL Enemy of History, Alex claims is a good
guy for never allowing open discussion on 911,
Afghanistan, Iraq, and so on, without selling
his Zionist hate for our Humanity.
allowing the notion that he, and
his likewise cult, might just have something to
learn about evidence being a REQUIREMENT to prove
someone's guilt or innocence. His godless commitment
is to escape Bush, and his zionist media controllers
with excuses that don't hold water in any Court of
Thee. Alex refuses to allow Americans to know why
the Constitutional protections are there to defend
yourself, because if you did, you'd demand the
arrest of Bush for treason, and call Ron Paul a
sell out loser who pocketed the millions conned for
being Alex's loyal fans. Alex doesn't like this Truth

because he's gotta be leading Earth's "Truthers"
at the pinnacle of his spear as a liar, where all
of History, is one badly drawn Alex Jones cartoon.

I must be on crazy pills
http://www.uruknet.de/?p=m51615&hd=&size=1&l=e

/ / Well, why haven't the banks just returned
the money?... \ \

People who know they defeat all "Conservatives"
in seconds with indisputable simple logic, will
eventually rule the Universe, if CNN, CBC, and
Alex Jones allow open communications on what is
understood by all as high acts of treason openly
committed without a defense of smart people
explaining why/how we are being rooked as idiots
on purpose. Crazy man, crazy.

Oh, logic like, "Buying in bulk is cheaper."

"Army deserter deported from Canada, now in U.S. jail"

This is a for real war crime. Why? there was/is
no cause for the Iraq war. Truly. Example: why
bomb if you can go anywhere without delay? To
only murder innocent People INCLUDING SOLDIERS
to thieve from ourselves as war criminals is what
any rational person comes to understand. When you
destroy bushite grunts who war God for rape, torture,
and enslavement of our species, you save the
innocent lives of their next victims. To hunt
the godless bushite enemy, is to love Justice
as our glorious Humanity winning over the lawless
nazi grunts of the Third Infantry - who'll shoot
anybody, blindly as cowards, led by a Saudi, Buford
Blount. Their "leader" who left Iraqi's largest
weapons depot undefended for looting. Qaqaa. Killed
many a bushite nazi grunting lawless coward by his own
treasonous brand. And mumbling bushite nazi grunts have
what to say about American teens made valueless
victims for Neocon bounties? "whore yay" That's
about it..

Private Banking Made Simple
http://www.mediafire.com/?xo9w32zmfox

9/11: Total Proof That Bombs Were Planted In The Buildings!
http://www.youtube.com/watch?v=8n-nT-luFIw&NR=1

VIEWS: 10,100,000

Five Dancing Israelis Arrested On 9/11
http://www.youtube.com/watch?v=tRfhUezbKLw&e

TWO CENTS FROM JOHNNY

http://www.indybay.org/uploads/2008/07/14/two_cents_from_johnny.mp3
http://www.mediafire.com/?sharekey=bba3db86f772190bd2db6fb9a8902bda
http://boston.indymedia.org/usermedia/audio/10/Two_Cents_from_Johnny.mp3
http://milwaukee.indymedia.org/media/2008/07//210039.mp3
http://miami.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://argentina.indymedia.org/uploads/2008/07/two_cents_from_johnny.mp3
http://media.indypgh.org/uploads/2008/07/two_cents_from_johnny.mp3

LETTERS NOW RELEASED PROVE-Bush Intervened-To Suppress Torture
Evidence
http://www.democraticunderground.com/discuss/duboard.php?az=view_all&address=389x4994330

This is called ungodly nazi war crimes against
innocent Human beings.

Obama Gets Tough to Shield Bush Torturers
http://chris-floyd.com/component/content/article/3/1694-protection-racket-obama-gets-tough
-to-shield-bush-torturers.html

Who does Obama think we are as 'United' together
on pro lawless torture against innocent 'others'?
Wake up people, we are under attack by those
who refuse US Justice to win Freedom for
anyone. "Conservative" retards are completely
lost here, because they do not have the
intellectual skills necessary to understand:
a person accused of a criminal offense without
any evidence is innocent. Or, how about, No one
deserves to be tortured for confessions on
crimes left then unresolved for actual
retribution. [Aegis OPENLY murders innocent
families for more American paying for zionist
monies - P2OG - YOUR Spouse, YOUR Child, YOUR
family].

Following the crime scene leads of 911 to nab
the actual evil doers is beyond the will of the
deaf, dumb and blind? with lawlessness gaining
for monetary loses due America as corporate
cheaters. We are Brilliant, of that much I am
certain. Conservatives are minimally, idiots.

-

Israelis forced mother to choose which of her children would die
http://www.daily.pk/world/middle-east/9374-israelis-forced-mother-to-choose-which-of-her-c
hildren-would-die.html

/ / the soldiers told her she had to choose five of
her children to ï¿½give as a gift to Israel.ï¿½ As
she screamed in horror they repeated the demand
and told her she could choose or they would choose
for her. Then these soldiers murdered five of her
children in front of her. \ \

Funded by the American tax payers as a gift to
God as our stolen Humanity. Equal rights for all,
especially the Taliban's position in defense of
America, demanding evidence to form our guilty
verdicts.

-

Obama Accused of Blackmail over Terror Trial Evidence
http://atheonews.blogspot.com/2009/02/us-accused-of-blackmail-over-terror.html

Again, Obama is taking a position to torture innocent
people here as a traitor to Just cause. Just cause to
live in a free society. Torture warrants the death
penalty under American STANDING Law.

Video: Cop Punches Woman In Face Four Times During Arrest For Riding A
Bike
http://www.liveleak.com/view?i=99c_1233639102

Top Cop Johnny Judge rules: Five years in prison.
Maybe fifteen if the dumfuk grunt, back from the
war against Iraqi children as a traitor to American
values, shows no remorse for his crimes against an
American women either. Absolutely any cop or soldier
who disagrees as true contempt for our freedoms with
punishment against this nazi trash pirating our
police uniform, WILL WARRANT death sentences all
around to ACTUALLY defend liberty in my America.
Any American father who prides in killing innocent
Iraqis for the escape of the neocons for 911 is no
father. And a wife should get the hell away from
a male who enjoys murdering helpless innocent others.
Children in such families should be challenged
by relatives through the Courts to save the lives
of our endangered offspring. Again, without water
or food, Iraqi children are murdered by Neoconner
grunts irrationally everyday with nothing to say,
aka, without reason but as Satanic Bush whores, to
make our God as Humanity suffer further for their
escapes as actually selling freely, lawless zionist
savagery.

KILLING MORE OF THEM - reporting war crimes to the Police
http://www.youtube.com/watch?v=gB-KaIBDNJw

Again, a bushite has no commitment to defend
America, for it speaks nothing for the arrest of
the neocon traitors. traitors like themselves whom
will murder innocent folks like your Self to steal
our common values. Wouldn't you glory in seeing
these savage grunts who on video, indiscriminately
shoot innocent families, or bomb a city entirely,
executed by Christian Patriot firing squads? or
televised to fry in the electric chair for these
documented war crimes? I sure would. It would make
our world a much safer place to raise a family
secure in knowing, bushite grunts as enemies of
everyone, were hunted to extinction for their
crimes against our Humanity. Hunted by Johnny Law,
the True Spirit of America.

Johnny Law for Coast to Coast radio Host!

yaahhh im a real person! Wow eh? Now,
let US bag some bushite scum for the Gipper.

UK judges accuse Obama Administration of suppressing torture claim
http://www.timesonline.co.uk/tol/news/uk/article5661291.ece

Yeah really. What kinda world does Obama take US
for here? Does he actually believe we hold no
interest in being attacked as ourselves, the
innocent forsaken? A reminder: an American was
executed under Iraqi law without any evidence
brought against the accused, while the grunts
were offered an excuse to seek not the culprits
at the terror scene. The case was lightly reviewed
at democracynow, a year or two ago, and can be
found by searching for a grunt pretending to be
an ambassador to Romania. A case where the Judge's
life was threatened by a "General", where if he
didn't order the death of the innocent American
citizen, the grunt with the General would murder
US all right then and there. The Innocent American
was murdered as forsaken for value shared by
free men. dying.

-

PetBed-CatTree
http://www.petbed-cattree.com/cat.html

Hey! this stuff for cats and dogs looks pretty
coool. Check it out if your a pet lover!

Near Impossible to believe!

/ / "similar themes go through all our streams. And it all
comes back as Confucius says, "Do unto others, as you would

have them do unto you." And Christ said that, Hillel said
that, Buddha said that, everybody says that, cause that's all
it is. But bushite, he wants to accuse People of criminal
offenses without any evidence, and indiscriminately slaughter
everybody in countries, for no good reason but to be OUR
ENEMY, an ENEMY OF ALL PEOPLE." \ \

-

AG Holder-- First, Jail All Bush's Lawyers
http://www.consortiumnews.com/2009/020309.html

For actual documented criminal actions against
American interests in defending ourselves from
indiscriminate robberies, tortures, or mass murder.

"Judges Bribed by Private Contractor to Sentence More Kids to Juvie
Detention"
http://www.philly.com/philly/opinion/inquirer/20090128_Editorial__Judges_Sentenced.html

Christ speaks!! Echem.. This is called a criminal
action to falsely imprison American children for
more stolen money. Will the contractor be arrested,
tried, then executed in America to defend American
children? Unlikely, because it isn't as important
as how fat Oprah is today, or as Alex Jones the
bigot would say, on how daily, the hidden NWO elites
are responsible for every criminal action against
Liberty in America, not war crime dictating LIAR
Bush who told US Saddam wouldn't let the inspectors
in without corporate news correction, Bush, who
closed Police investigations on 911 for Enron, KBR,
and the Kissinger associates. And certainly not
Bremer for personally stealing tens of billions,
no no no, "just puppets" "just puppets" as instead,
the Illuminati in other words not allowed spoken
understood with Alex Jones NWOers. I want a free to
speak arena where 50 percent of what Alex spews is
truly dumber than stupid. Why? because he is controlled
through his personal weakness of bigotry, to actually
believe foolish things as factual. Examples are
truly endless when we discuss Alex Jones'
dumminess, but here is one example. Alex states
911 truthers were attacked in a TV show as NWO mind
control- but, the "truther" he referred to
talked in the drama on there being NO PLANES!
A dis-info bushite stooge if ever was one depicted
with special effects. We suffer with his bullshit
every day, knowing if we tried to phone, would
not be granted a minute because I, in support
of Freedom for America, make all bigots look truly
dumb as fascists lashing out at nothingness to

divide our masses. And apparently, he can't have
America becoming greater for defending ourselves
fairly through Judicial actions. Yet.

-

which side are YOU on? by REBEL DIAZ
http://www.youtube.com/watch?v=8Dr05tXktSo&e

The side where a person accused of a criminal
offense without evidence is innocent, and in the
case of capital accusation, the false accuser
deserves severe punishment as an enemy to my
Humanity.

http://www.indybay.org/uploads/2008/06/11/johnny_the_law_man_america.mp3
http://www.mediafire.com/?myyb5jmjlnn
http://cleveland.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://miami.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://maineindymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://chicago.indymedia.org/usermedia/audio/2/johnny_the_law_man_america.mp3
http://neworleans.media.indypgh.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://la.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://peru.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://newmexico.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://boston.indymedia.org/usermedia/audio/3/Johnny_the_law_man_America.mp3
http://argentina.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3
http://houston.indymedia.org/uploads/2008/06/johnny_the_law_man_america.mp3

Again,
Nazi Israeli responded by murdering innocent Christian
children as war criminals with "disproportionate"
force. War criminals who murder Humanity to steal
our shared values.

-

Dennis Kucinich "Israel is Killing Children With Your American Tax
Dollars"
http://www.youtube.com/watch?v=HrtPpk6nhF8&feature=related

Israeli openly admitted that they targeted those
innocent Christian children for MURDER - as -
continuing "disproportionate" force in our names
as enemies of God and Humanity. They are not Jews,
but of the evilest group of lawless nazi savages
pirating the government of Israel away from US Jews.
I demand open debate in America, and Americans refuse
me by not likewise demanding international coverage
on the Coast to Coast radio networks. Let's change
this by communicating.

Ceasefires, Israeli-Style
http://sjlendman.blogspot.com/2009/02/ceasefires-israeli-style.html

They admit TODAY, as yesterday, and last week, month,
year, decades, that they target completely innocent
people for murder to punish Humanity for believing
in God as Just, or real freedom understood as practiced.
Libertarian couldn't give a shit on a issue such as this,
that they keep everyone ignorant of through hypnosis. Israeli
openly admit to thieving innocent peoples homes, to them
be sent at gun point, to live in a concentration prison
death camp.

http://www.davidduke.com/

/ / ..the Israel Prime Ministerï¿½s speech in which he
actually boasted of his power to order the U.S. President
as one would a dog. \ \ and all American men can't for
some god forsaken reasons, can't for their lives, phone
George Norry to be hung down on. George Noory is a "good
guy" for aiming to go ballistic against every American
who refuses criminal orders to destroy themselves.

Americans Are Welcome In Israel
http://www.youtube.com/watch?v=m3VT4r787U8&e

Jesus Christ in Islam
http://www.youtube.com/watch?v=-Flh7epISs4&feature=channel_page

-

Obama set to allow Bush-era ï¿½torture flightsï¿½
http://timesofindia.indiatimes.com/Obama_set_to_allow_Bush-era_torture_flights/articleshow
/4067338.cm

What the fuk eh? Doesn't Obama know this
crime warrants death in America according
to the war crime act? Does he believe America
just will never have a chance to speak for the
interests of US as innocent Human beings he is
planning to torture as an enemy to Life?

Refusing to Defend American Values

Yoo: Bush okayed torture to outwit defense lawyers

This is why it warrants the Death sentence. Remember
corporatist Amerikan citizen, these torture victims
that include children as younger than a hundred, had
not been alleged to have ever committed a crime in
their entire lives. Victims tortured to death for the
pleasures of those Satanic, such as General Geoffry
Miller, who tell US today as confidenced, they do it
because, patsy wasted American soldiers will just refuse
to hunt them down for formal executions. Let's change

this for our Humanity in this future, to look back,
and know, American males were men of the World, who
stood for the principles enshrined within every living
Constitution. A free man shall not be jailed, or
tortured by anyone in our names as Governed, without
the perpetrator tried publicly for execution as our
Love of real Justice. As first degree mass murderers
warranted death sentences under the War Crime Act
ushered by Reagan!, all done in for our protections
of their next innocent victim - ourselves. Or
die a death in corporate tyranny worthy the title,
cowardly traitors to God and Liberty. Blackwater,
CACI, AEGIS, KBR and the like will all be hunted to
extinction for refusing to quit their lawless Rape
and mass murder, murders done for more stolen money
as America's name high-jacked. The Lawless enemies
shall be prosecuted by the honorable Soldiers of
the Good old, Red White, and Blue. Count me at
our words on this, I am,

King Johnny

-

Ungodly Israeli Nazi LIARS Continue to Murder Children after "Truce"
http://www.youtube.com/watch?v=-HQO0774lx4&feature=PlayList&p=4199C9262539936D&index=0&pla
ynext=1

A truce means nothing to Hamas?, who states
much of no complaints as in support of Israeli
Nazi lies, why? Have you seen where a blimp is
traveling about five miles an hour, fire bombing
thousands, and none have even a pullet gun, never
mind an Iranian rocket launcher to shoot the Satanic
demons down for God as Love? Why doesn't Hamas
at least admit, like an Israeli General has,
to be funded by Zionists for cash gains paid for
by Zionist Amerika? Why? Why is it that Hamas
suffered near no loses, but all the Cops who
voted who knows, died murder victims trying to
defend our family from Texan child rapists?
Along with thousands of others targeted as
innocent Peoples? Targeted. Why? Nazi Israeli
broke the truce!! THINKTHINKTHINK Demand coverage!
Hamas certainly isn't. ..maybe because they're
illiterates on the Cause of God's Will being
Just?

Monkey Business

http://houston.indymedia.org/uploads/2008/07/monkey_business.mp3
http://neworleans.media.indypgh.org/uploads/2008/07/monkey_business.mp3

http://cleveland.indymedia.org/uploads/2008/07/monkey_business.mp3
http://boston.indymedia.org/usermedia/audio/13/Monkey_Business.mp3
http://la.indymedia.org/uploads/2008/07/monkey_business.mp3
http://newmexico.indymedia.org/uploads/2008/07/monkey_business.mp3
http://baltimore.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://miami.indymedia.org/uploads/2008/07/monkey_business.mp3
https://publish.istanbul.indymedia.org/uploads/2008/07/monkey_busines...
https://israel.indymedia.org/usermedia/audio/12/monkey_business.mp3
http://stlimc.org/sites/stlimc.org/files/articles/audio/Monkey_Busine...
http://peru.indymedia.org/uploads/2008/07/monkey_business.mp3
http://japan.indymedia.org/usermedia/audio/12/monkey_business.mp3

From years after the fact still demanding Justice now:
http://groups.google.co.uk/group/alt.military.uk/browse_frm/thread/ca0e34fb32caeb0a?hl=en&
scoring=d&

Huh? "at last been disarmed..." ? How does he figure?
The equation hasn't changed. Example: The same
unaccounted anthrax, (that was disintegrated into ash),
still is not able to be measured as completely accounted
for, (never could be), but this bushwhoring war crime
apologist, tells US, it was only though the lawless
murder of our good friends and family for countless
generations, that he now attests without reason, or
evidence, to find Iraq in "fact" disarmed of it's still
nowhere to be found, weapons of mass destruction. (An
irrational reason he pronounced previous in corporately
broacasted public support of instigating heinous war
crimes against our humanity under the leadership skills
of the evil lying demon antiChrist, our Mr. bush Jr..)

Ron Paul defeats 5 TV 'experts' in 10 minutes
http://www.youtube.com/watch?v=0k92fTDReHg&e

Ron Paul is a traitor. They stole the cash Ron.
And, the Iraq war is a war crime. But Ron, the
Fascist, doesn't want THESE FACTS uttered. Why?
Because wiser men would prevail, wiser men like
me who understand buying in bulk is cheaper. Those
like Christ who understand, who KNOW, the banker
doesn't cover our loans - so why give them as much
as a taxed red penny?, let alone trillions as
officially unaccounted for? They are stealing the
cash Ron. Ask yourself: Why has Alex Jones
forbidden his bushwhore cult from understanding
Bush doctored the NIE?, or of iron flowing like
water from the towers? Because wiser men would
prevail and he can't have that. He called shooting
innocent men in the back, an act of liberty. I,
an actual god, unlike Alex, lie near never, but
maybe to myself when I'm lonely. Alex yes will

tell you rapists are free to do what they will
in Texas to American children, un-arrested, but
he won't mention it when the police chief is with
him on air, talking about how he'd like to be
exempt from traffic tickets for being so popular.
NO MENTION of the rapists walking away without
arrests made, no mention of Bush's documented
treasons on 911. Where are Alex's priorities?
In selling YOU out so he can be wealthy like a
bankster?, and have special rights over everyone
else that drives drunk, or speeds? a big hero
standing over our dead soldiers yelling, I told
you so, I told you so, I was right, I was right.
Again, understand: It is not by my will to deny
open debate with America, it is Alex, and his
demon buddy George Noory that denies out Humanity
this right. And when people try, like Peggy, or
Black men on Jewry, Alex lies cheats and steals
our wills for further thefts. Ron Paul's family has
millions taken from loyal Alex Jones fans. MILLIONS!
Does Ron do commercials with that money highlighting
the bushmob's plan to invade Afghanistan, dated two
days prior to 911 for Enron? Of course not, wiser men
would prevail to expose him as the charlatan charity
raider he is regarding Health Care, Social Security,
Public Schooling, earmarks.. It is unfair to measure
Ron against corporate nazi zionist whores of MSNBC who
willing, openly, kill American teen soldiers for
criminal neocon gains, as an honorable gentleman's
talk. Half honest People like Ron are extremely ignorant
on the workings of our world. EXTREMELY. I joke here not.
Evil is the deceived disguised - translated - evil
people are always dumb.

Corporate America says no, Charlie Manson was a genius,
but not, that most Americans are prone too easily to
suggestive states where they can be made to believe
anything blindly. Think: what does, "bin Laden did 911"
mean anyway? You should know of what I'm trying
to teach you here. That is how
Alex knowingly or otherwise, steals our rights, by
beating off he knows everything already. And some,
if not most, actually believe him without knowing
squat either. It's sooo easy that way - no study
required!! LIBERTARIAN HELL! Everything is not on
the Internet, where it near should be, but regardless,
a Libertarian can't be bothered to read anyway.

It's YOUR life. It's God's
Gift. Now support our rise for popular international
debates to get these Neoconners behind bars

awaiting Public Trials! "Public"thatsoyu!! Get to
the Phone to call someone to care man.. Johnny
Jesus has arrived! Justice Will Be Done in this,
Our Kingdom to Come.

Justice to the war criminals of
indiscriminate warfare would better serve ourselves
to halt for our safety. The bushmob did 911.

1. The ISI's General, Mahmoud Ahmad funded 911's Atta

2. We have video of iron flowing like water from the towers

Humanity Under Attack by the Zionist Enemy of Life

GAZA APPEAL THE BBC & SKY REFUSED TO SHOW
http://www.youtube.com/watch?v=c9kwpxlZorI

Not only that but the BBC argued that to show
innocent Human Beings suffering, in CRITICAL
life threatening need of desperate food and
water that Israeli nazi stole, (because they are
unlawful murderous thieves), would have them look
like they were partial to serving Humanity's
interest in compassion for US humans. Over the
Israeli terror Nazi tactics of indiscriminate
slaughter for more Amerikan welfare. Wicked evil
nazi bastards who too, DO NOT THINK IT BEST to
report Peter Power committed the London bombing.,
Oh yeah, and mercury is neural toxic, anti-psychotics
make us crazy, and sodium fluoride makes us
stoopider while weakening your body for big cash
surgeries

Olbermann | Bush Years: 8 in 8 Minutes
http://www.truthout.org/011809Z

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demand arrests of the culprits
responsible for high treason against Johnny's
America. Alex wants your money, and EVIL George,
our enemy, wants your soul stolen for Satan.

King Johnny Guest Caller on Free Mind Radio!
http://67.212.67.19/PubPodcast//freeminds/0125091.mp3
(back-up) http://www.mediafire.com/?ptui9mm15pn

The demon LIAR zionist Israeli is a godless enemy of Humanity, much like everyone at Foxnews, CNN, BBC, and the CBC. Our revolution against the godless bushite shills, will not allow our revolution through speaking honestly, (to become of ourselves something greater), a chance to be televised for our benefits. Bush closed criminal investigations immediately after 911. According to the FBI and Senator Daschle. CNN says you have no power, Foxnews says you have no power, the BBC says you have no power, the CBC, the same, like Alex Jones NWOers... but well, don't believe it. YOU Do have the Power.

We must demand open communications to bring back values WE ALL would agree to through polite debate. "Conservatives" don't want this Freedom idea expressed in general terms because, a "conservative" is universally, minimally. a bigot. Why? Life isn't like, their way, - then- all other opinion under the sun on how things actually get done. (Aka "socialist" traffic light repair men, or "liberals" who want to treat The People fairly). Or who we are as equals to our laws fairly practiced. Pay attention to what I am saying here. Liberals can be Dicks with a capital D too of course. But a Hannity couldn't survive 2 minutes with me speaking on his very real treasonous behavior in OUR public arenas. Behavior done to escape the 911 culprits from the long arm of the Law, with his conscious will of criminal deceit exposed, we all learn to better defend ourselves. And Shawn Hannity can't have that for ourselves, he takes too much money from ourselves as talentless by keeping US in the dark dying needlessly for traitors never elected publicly.

-

Unseen Gaza High Quality: Part 1 of 6
http://www.youtube.com/watch?v=UeezoWRu1FU&eurl=http://whatreallyhappened.com/

Why is it that numerous visits don't change the view count? What is this business of a=a+1, the top secret, I'll go rhythm, that is way beyond our comprehension in it's scientific complexity? For Americans, okay, but the Human species just isn't this dumb.

While Zionists OFFICIALLY target Christian school girls for mass murder, CNN instead reports that bushite grunts attacked girls in Afghanistan, posing as Taliban. I WILL every celeb at CNN to be arrested, tried and executed for the reporting they have done today without facts. Remember: the Taliban played no

part on escaping those responsible for 911, and opened
schools for girls, and were brought together on the
single purpose to defend women. Death to CNN reporters
to LIE for killing OUR school girls. I HATE zionist
enemies of Humanity and God I am.

The Torture Ban that Doesn't Ban Torture
http://atheonews.blogspot.com/2009/01/torture-ban-that-doesnt-ban-torture.html

/ / Obama's Executive Order bans some -- not all -- US
officials from torturing but it does not ban any
of them, himself included, from sponsoring torture
overseas. \ \

Is America a nation of Law to Live freedom?
Because this SPECIFIC deviant action of Obama warrants
the death sentence under Reagan's "War Crimes Act".
SPECIFICALLY. Or, is it you falsely believe Obama
can do no wrong against innocent people here, where
an illiterate nazi grunt, maybe from South Africa,
will kidnap YOUR children, and torture them to
death for sadistic pleasure, with as they did using
power tools caught in Iraq, according to Iraqi
government official(s), and several soldiers from
Oregon, all because Obama has given an ILLEGAL!
"excuse" to NOT support following the crime scene
leads at our REAL murder scenes? Again, death to the
bushite dumfuk enemy of God, death to the enemies
of a freeing Humanity striving for a just society.
Obama needs to be arrested for this under the Law
as it stands I'm sorry to say my friends. Why?
Torture is illegal in all 50 states, (as Reagan
directly planned), no matter where you ship the
innocent victim to, or from! Read the War Crimes
Act, then demand Justice today, otherwise, it's
YOUR funeral. Obama wants to secretly torture
Peoples here, while lying to US ALL that he doesn't!
A TRAITOR! Who also wants to give bankers 100s of
billions of dollars more to disappear, that WE pay
for, out our door, never to be seen as our own
again.

-

http://www.gcnlive.com/pubpod/what_really/pcast.php

Don't miss this..

-

Jack Blood interviews Richard Andrew Grove, an AIG insider and
whistleblower
http://video.google.com/videoplay?docid=6546044203900048624

Alive We Say

And Alex Jones gives us the same guy twice
a week that blames the Illuminati, while
encouraging that YOU TOO! can get money
for nothing like the banksters. Just give
the Alex Jones', NWOers, the "truthers" money
money money money. No time for affording the
explanation that the TREASONOUS bushmob
doctored the NIE. That Saddam wasn't in
violation of 1441. That a NEOCON is
identifiable for it's demonic LIES
against God and Man. Never to tell, the
private bankers don't cover OUR loans,
that Bush PERSONALLY worked to close
Police investigations immediately after
911 (obstruction), or that WE have video
of iron flowing like water that PROVES,
without doubt, bin Laden couldn't have
single handedly placed the explosives
in the buildings, or stole the black boxes.
Because someone surely would have spotted
him dragging his dialysis machine what with
all the professionalism of corporate news
media coverage regarding our horribly
suffering worlds. Alex Jones ignores the
treasons of Bush, as a Bushwhore, and
instead, tells US of how Obama is Bush on
steroids. He only wishes. What about
Justice for Americans Alex? Why for do you
forsake ourselves? For money? What about
the lives lost to mass murder, that you
allege to champion OUR TRUTH without saying
much of anything on real Freedom?, on real
Justice

King Johnny, from Earth, has come for talks.

-

The Zionist enemy, the most evil nazi sons-of-bitches
who openly advocate tyranny and oppression through mass
murder of ourselves as the innocent left targeted
defenseless. Enemies of Jews everywhere, the Zionist
cares not for facts on who's Life it destroys for stolen
gain by lying. That's why they target Jews, for fear the
Light of Truth would expose them as the Nazis they are.

Hamas doesn't have a military though, so,
why not demand the arrests of those who
broke the truce, and murdered innocent people
indiscriminately, on plans more Jews would
die for cash profit? Profit paid for by

zionist amerika? - the false imprisoning
torture and rape center for Neocon
Freedom.

The self-defence defence
http://www.guardian.co.uk/commentisfree/2009/jan/23/israelandthepalestinians-gaza

Court petitioned to arrest Livni upon arrival in Brussels
http://nawaat.org/portail/2009/01/23/belgian-court-petitioned-to-arrest-livni-upon-arrival
-in-brussels/

"We believe there were dozens of IRGC
personnel in the Gaza Strip during the
war," an Israeli source said. "Some were
killed; others went into hiding, and
others escaped."

See? the demon enemy of God speaks no
evidence as a TRAITOR to every Jew. A terrorist
nation that still steals humanitarian aid in
our public realm of left defenselessness. The
false allegation deserves a death sentence
by Jews against the war monger Zionist enemy.
A cause that Iran should champion, if in fact!,
this allegation by OFFICIAL WAR CRIMINALS WHO
TARGET FOR MURDER OUR SCHOOL GIRLS, is on it's
face, unsubstantiated as patently, demonically
false. As typical from any godless Zionist.

Obama! feel free to call
on me to help out with a plan for judicial
actions. That offer goes out to everyone in
Palestine, Canada or Britain too. Russia,
let's help out these fools by freely
communicating, what say you? Justice
for all is freedom to be. The Israeli cop
killers must be brought to justice for war
crimes. Those cops, were cops. And I,
am a man.

A Dumb
guy on things like economics sure, Justice, warfare,
Health Care, Social Security, ect. ect. but still.,
like a child learning of why the sky is funny
blue, isn't all that bad a guy really. He's
certainly not a war criminal, like Bush or
Rumsfeld are. Doing 911 then sanctioning torture.
While Neocons Champion sending illiterate American
teens for death as war criminal. Think about it.
Maybe he is..

-

ï¿½We have all these documents that are now publicly available that prove that these methods of interrogation were intentionally ordered by Rumsfeld,ï¿½

Let us understand. These actions "give" a guy like Willie Brand "the right" to RANDOMLY kidnap men, women, or children, and torture them to death for sadistic pleasure with his Capt, Christopher Beiring. (I think that's how it's spelt). But anyway, this is the truth. A bushite is a godless Zionist whore of Nazi evil, an enemy of America, who wars YOUR Freedom with criminal "excuses", for refusing to support the arrest of those responsible for 911. A TRAITOR, and could be wannabe rapist, robber, or 911 mastermind ringleader. Torture is illegal, and warrants the death sentence, according to, Reagan's "War Crimes Act". Some only suggest, that this was why someone tried to kill him as honorable. Death to the torturers of our innocent families, torture they do without apology as Zionist Military "Judges". Instead today, where they get salaries paid in the billions by the zionist giving nation of, a-mirror-kay, echem, America. Johnny's America. A nation where Justice will rule for the favors of all treated equitably with or without you. Honor me in company my friend. We have no rivals.

"they do not understand, the private banker never covers the loan. Never does a private banker reach into it's pocket to borrow US to begin with - so as a consequence, the bankers have just pocketed all the 'free' loot for nothing, TRILLIONS, and are not saying why should they help anyone else up with charity?" Then went on to say, it wasn't any of our business with what they did with the money. (But for to cover criminal fraud in the derivatives market, where the true value of said commodities were backed by ZERO capital. ZERO DOLLARS. WORTH NOTHING. So, think about who's truly giving it always here until Johnny, the man who came out of nowhere, arrived to explain everything in five or six minutes.

Gaza: 'I watched an Israeli soldier shoot dead my two little girls'
http://www.independent.co.uk/news/world/middle-east/gaza-i-watched-an-israeli-soldier-shoot-dead-my-two-little-girls-1452294.html

Getting away with murder as 'God's Chosen' chosen
for death by war crimes trial more like. Death to
the criminal zionist enemies of Humanity. Zionists who
falsely accuse without evidence to respect our rights,
like TV corporated Americans who treasonously LIE,
'bin Laden did 911'. Enemies of Freedom for our
Humanity.

They are murdering Cops

2-Bombings target house of Abu Ubaida El Jarah,
Police Director in Sheikh Ridwan area.

3-Airstrike targeting Al Zaytoun police station.

Nazi Israeli are murdering Police Officers,
and the families that live in the areas near
them as once defended from criminals.

It's like saying, every Cop in America deserves
a death sentence by thousand pound radio-active
waste based uranium/plutonium war shells because
Bush stole the election, then committed 911 with
the Neoconned Partners of Public Crimes, Cheney,
Rumsfeld, Condi with General Ahmad and Myers. Now,
I ask all Cops, does that make sense to you as
still remaining silent? You can be a man too, why
don't we all just give it a try. To the Telephone
Robin! Israeli are attacking prisoners held
criminally in their own Death Camps!! GET ALEX
JONES ON THIS! and.... the ADL! er.. JDL.. er..
let US join forces for the common good of all,
as so we will benefit everyone. That means
Justice for all, especially the Taliban for
defending American Freedom by demanding evidence
to form a conclusion of capital accusation,
regarding an unsolved case of mass murder.
Taliban blamed it on concern for life draining,
!AMERICAN ENTERTAINMENT TV! sports, weather,
Music, and news about some, who knows war we are
committed to now die you for, for better or worse,
of mass death and suffering against innocent
Peoples all for glorious Neocon tyranny of inter
national private banker IMF enslavement plans!
in some far off distant places. America! I am
King Johnny.. I am from the Planet Earth, I've
come to share the knowledge of Justice in our
times on behalf of this, Our Future Great
Triumph over Evil. We come in Peace with
a sword for War Mongers, and a choice for
'lawless' grunts of ungodly action against
Life as we live it. Targeting school kids
deserves death sentences, don't you think this

value is what every soldier should hold proud
with Johnny in America? In Israel? In
Everywhere?

Chief Israeli Nazi Rabbi "All civilians living in
Gaza are collectively guilty for Kassam attacks"

ï¿½In spite of rising the blue flag of UNRWA on
our schools, the Israeli army has been targeting
those schools by missiles and tanks shells.ï¿½

U.N. special rapporteur on torture calls on U.S. to prosecute Bush and
Rumsfeld.
http://thinkprogress.org/2009/01/21/un-bush-rumsfeld-torture/

[SATANIC ENEMY] Israeli warplanes attack Gaza during Truse
http://www.presstv.ir/detail.aspx?id=83073&sectionid=351020202

Satanic Enemies of Humanity Kill 8 Yr Old Girl During Fake 'Ceasefire'
http://uruknet.info/?p=m50983&hd=&size=1&l=e

Nazi argues it's good to get killed Jews by
breaking truces with prison camp.

They shoot Peoples indiscriminately telling US
that's how evil they are to argue it's Your
fault though.

FIGHTBACK

/ / Israeli forces demolished the house of the
Sammouni family in Gaza City after ordering
them to remain in it for safety. \ \

Palestinian Children found with bullets lodged in their head
http://jnoubiyeh.blogspot.com/2009/01/palestinian-children-found-with-bullets.html

/ / Israeli officials continued to deny on Saturday
that their soldiers had deliberately targeted
civilians, \ \

The Zionist is an
enemy to the God of Love and Justice, of Beauty, and
Children. A zionist LIES with a hatred unmatched in
Satanic hatred for the survival of our species. I
beg you, hunt to bill the zionist war criminal who
charges we will not succeed to see every last war
criminal on this planet hunted down to complete
extinction, by public trial, then Jewish firing
squads. The Zionist has bombed US, The People
indiscriminately with out cause. It was Nazi
Israeli that broke the truce to get killed
Jews for money. They starve Jews in Israel
to attract more charitable aid they can use

elsewhere. They, as Nazis, will continue to
murder Jews for money unless WE DEMAND, their
formal trials and public executions. They have
murdered our families, and they will pay will
their lives for it as the directly responsible,
and in no way, will escape our rages against
them as the enemies of every Human Being
Living for Freedom. Every Human that loves
children. They HAVE ADMITTED to targeting the school
girls for murder with lies they were caught
doing. THEY DON'T GIVE YOU EVIDENCE. And when we
get the facts, it's near always exactly the same
thing: they steal our Homes, they STEAL our
lives. God calls the Zionist Jew Enemy of
the Synagogue to Satan!!

The Ungodly Murder of Innocent Men by Israeli Nazis
http://atheonews.blogspot.com/2009/01/summary-execution-in-southern-west-bank.html

/ / At noon an Israeli military jeep with four
soldiers entered Tameiziï¿½s land. After 15
minutes the man was thrown, blindfolded and
still handcuffed, into the back of the jeep. \ \

Let us not lose the focus of fact, that these
people of ourselves live in a concentration,
prison death camp, robbed of everything.
in Curfew near anywhere in "peace time". And
still, to this day, do Nazi Israeli CONTINUE
TO THIEVE the Homes of god loving folks in the
region, guilty of no crime but to have been
born into such brutal ungodly oppression
against Civilization. And to see, face no TV
opposition as American tax payers continuing
to fund such war crimes in our absent names,
is a crime on to ourselves if allowed to go
unchallenged. Johnny for Coast to Coast radio
host. Free the Slaves! Free the Slaves!

Binding U.S. law requires prosecutions for those who authorize torture
http://www.salon.com/opinion/greenwald/2009/01/18/prosecutions/index.html

-

The ugly secret of Barak and Livni, the truth about the Gaza rockets
http://www.youtube.com/watch?v=8rqDzXeA-PQ&feature=channel_page

[HEY WHAT THE.. THE LINK IS GONE ABOUT GODLESS
ZIONISTS MURDERING JEWS IN ISRAEL FOR MONEY!]

See my Jewish friends, these zionist liars
will never escape our love for Truth in this
our new age. Killing Jews for money is as

evil as found, negligently criminal, agreed?
Agreed.

Gaza: lives in ruins
http://www.youtube.com/watch?v=OFWxEtWcT8w

'Ungodly Enemies of Life is the only way
to describe it from here Tom. They again,
are attacking People indiscriminately for
murder as sadistic Satanic enemies of God'

Someone should ask what King Johnny, The
King of the Jews has to say on this subject
of a Zionist's complete absence of morality,
as inhumanly bereft any common decency among
our brothers and sisters. I mean for Christ's
sake Tom, THEY ADMIT to sadistically
targeting our children for MURDER - as some
kinda Satanic demon whore to Pure Evil - aka.
Wanted War Criminals for Public Trial. Just
as the Nazis were for similar outrages. Let's
hope men of America are least half they were
then, but we are suspecting, they will as of
usual, balk as cowardly slaves to the private
banker man ruling their minds, it's a, no
wonder. Where is there that purpose striving
for a greater future living in a just society?
Where is the Christ in their Christianity?
to financially support the arming of such
unlawful Zionist killings in silence against
Innocent Christians?

BBC argues with Israeli Spokesman over UN School Bombing
http://www.youtube.com/watch?v=VPGP1xWEkkk

Where is the evidence to form any person's
verdict, if none is offered as in respect
for yourself as worthy the title of free
men? I ask as your self? Or are you as
the cowards of most in the American military
who refuse to speak for the arrest of those
who did US wrong on 911.?

King vs Obama on Gaza - Christian vs Zionist
http://www.youtube.com/watch?v=oegClx-t20U

-

For the Popular Will?

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke the truce, and Israeli started this by stealing innocent peoples homes, then imprisoning ourselves, the victims, in a death camp for indiscriminate slaughter. While they continue to STEAL OUR CHARITY by breaking truces. What is it that YOU can't picture?

"The view from the other side, that the Qassams are a retaliation for the siege that starves the one and a half million inhabitants of the Gaza Strip, [a prison death camp,] was not mentioned at all."

They are criminals who murder People in hate for a freed Humanity. They OFFICIALLY steal Peoples homes in that country didn't you know they proudly proclaim it so? And steal humanitarian aid from starving children. Targeted to murder children specifically as publicly confessed, 'it is Hamas WE blame', not them as demonic child murderers. Hideously evil as ungodly sadistic savages. Enemies of YOU, enemies of them, and enemies of me, the King of Jews Christ fellow from beyond the grave. They are so evil to God and Man, they tarnish everyone of US to not win justice sooner by blaming the actual bad guys. Justice is Freedom.

/ / Those white phosphorus shells used on the Gazans are made in the USA according to Jane's Defense. \ \

Again, these peoples are not Jews. Being Jewish is a religion. These thieves of God are Satanic in their LIES to betray the common trust in our words, that bind all worlds to victory, called freedom universal. Even tales of the Devil have him keep his word, with verses specifically condemning the self to damnation for targeting the innocent for death. God's the Word. Every word inside a fool's paradise. Including the periods. Not as like, I'm playing a word game, but that it in wonder, is all strangely here. Example: The Universe as it has existed always, is not separate from our 'pauses', or faulty drawn conclusions. The universe, in one sense, was as good as anytime, created 6000 years ago. AS TOO 50 billion. You say, impossible, I say no, study quantum physics, and know, I

live this.. our existence is not scientifically
separate from the timeless nature of
consciousness, proven as not only theoretical,
but actual. That is a first step at developing
a REAL relationship with the living Universe
if you want to as like an artist does - that
TOO! can be just as thought static in it's
orderly constructions for Atheists. (An
Atheist is still mostly a fool here however.)
Overall, for any, it's sorta simple: Life has
left YOU in charge of YOUR fate. Now, do well
to make something of this being as eternal Life
reaching for balance, as your body does, and
good cops do when bringing the bushmobsters to
Justice. By Israeli calling for more murder
against the innocent of your mind as racists
and bigots they are openly, is still shadows
of YOUR mind, YOUR WORLD.. get it, got it? God
is in genius to set Life as this, as like,
nowhere existing, but for as yourself within.
Will you speak out for the Justice denied
Humanity?, or not you? Atheists can be Just
too!, but generally lose it on not
understanding the intelligence of order is
way beyond what they dream up with
assumptions. All anyone has to do is ask
themselves, who do you mean "God"? Atheists
are ridiculous!, but, to each his or her
own, we are on a path here, believe what
you want to believe. This is not a faith
initiative I'm bringing by keeping this real,
I DEMAND JUSTICE BY OUR WILL BE DONE.

A zionist cabal of criminal pirates who murder
Jews around the world for stolen money is
seriously evil as criminal. What do you think?
Let US have a open line discussion on this
indivisible matter of rights to all as equals
before who ever we proclaim, I AM.

I mean you right? Say it with me... "I" "AM"
we are good to go.

-

George Galloway "The West has DOUBLE STANDARDS when it comes to
Israel"
http://www.youtube.com/watch?v=IIpvrOJQ0J0&eurl=http://whatreallyhappened.com/

A Zionist Nazi Being

See? A zionist Nazi argues it's good to get killed
Jews by breaking truces with a prison death camp,
cause look at all the free American Welfare money
we can steal through kicking-back AIPAC members in
Congress.

-

Harper complicit in Israeli war crimes
http://onlinejournal.com/artman/publish/article_4246.shtml

Canadians! Please war with words for open line
calls on the war crime enemy propagandist,
The Chorus Radio Network. CJOB STEALS millions
from Manitoba each year, and refuses all calls
for honesty in governing. They are actual
CRIMINALS.

Canadians Stand Alone
http://www.thestar.com/article/569872

Harper the proven war criminal
who will be going to prison, is the only person
on Earth that has publicly okayed Israeli Nazi
to target murder Christian school girls. Canada,
join me in demanding Harper's Public trial as a
war criminal. Prison for Harper who took a
honorable soldier who stated he refused to commit
war crimes against innocent civilians, and placed
him without trial in prison. Without warrant for
arrest. Harper, the Nazi Appeaser, is a War
Criminal standing against the Queen.

"Or is this another, popular amerikan past time,
of, who cares for the facts, we are at war with
God and Christ now?" Die bushite die Christ always
says against lawless torturers as mass murdering
thieves of Humanity.

shreveport man gets 15 years for stealing $100.00
http://wesawthat.blogspot.com/2009/01/shreveport-man-gets-15-years-for.html

Again, Americans need to demand the arrest
of the Judge and prosecutor for being openly
evil demons, as TRUE enemies to freedom in
America. But guess what? Americans will refuse
to even phone Alex Jones, or George Noory
to be hung up on. Just refuse as brain dead
zombies - as known in this circle, McCainiacs.
Did you hear Alex's NWOer yesterday state he
doesn't want anyone to speak as Justice for
Americans because to learn even the most basic
of precepts for Justice, he can't pretend he is
a Freedom Fighter begging US for more money?

Like multi-millionaire Ron Paul, who gave the
fixed election up to take our money and walk
away. How much money in the millions do we have
to pay them at GCN, before they will acknowledge
the Iraq war is a war crime? THEY NEVER WILL,
because the owner has a son who's into
raping American women as lawless enemy of Life.
Americans are indeed, selfish, like all the plane
crash survivors telling US how they couldn't care
less that Israeli nazis are openly targeting our
Christian children for murder with their tax
money, as unimportant, to how long they stood on
a plane wing, now approaching it's third day, of
wall to wall coverage. Telling us again of how
Christ saved your life as a lifeless degenerate.
I, as Christ, am really starting to hate all
Americans in total now. How difficult is it to
pick up their phones? They don't, and I'm beginning
to believe it's because, like GCN, they really
don't care for the future of our Humanity being
left for dead as continuing victims to EVIL liars.

Nazi Israel Broke Ceasefire as Satanic:
The Bush Administration and The New York Times v. Amnesty
International
http://uruknet.info/?p=m50870&hd=&size=1&l=e

UN sites shelled with WPh after GPS coordinates given

Livini was reported to say today that, 'every
innocent person targeted by Israeli, as such
driving in ANY car, or on ANY bike, or walking
down the street as then directly murdered, Hamas
will be blamed for. Heil Hitler' Well, I made
that last part up, but do you have the ears to hear
the screams for mercy given by Humanity?, while
this, the evilest of JEW KILLERS in the known
universe, (targeted, and murdered countless Jews
in Lebanon as one example), believes no man or
woman living can speak directly against her wanting
to MURDER even more as ungodly... 'Until the tin
can rockets stop falling on Jews' standing in their
detention centers, or living at the garbage dump
BUT.... THEY BROKE THE TRUCE! THEY BROKE THE TRUCE.
They will rob and kill US all my INNOCENT friends
as LIAR Satanic if you, YES YOU continue to refuse
to support my/our demands for OPEN COMMUNICATIONS
for Justice ourselves. Johnny Dazzler for Coast
to Coast Radio Host!

'Secretary General outraged at shelling of UN building in Gaza'

"I conveyed my strong protest"

Not good enough. Public War crime charges warranting
Death by Jewish firing squad, is what is demanded of
our Humanity. Death to the zionists liar war criminal
enemies of Humanity, instead of US, who they target
for mass murder.

They are jewish criminals, not criminals because they are Jewish.

HERE IS WHAT GOOGLE IS:

"End the illegal Human occupation of Jewish land in Gaza!"
http://stoptheism.com/

HUMAN

These war criminals need to be arrested for Murdering
LIES against the lives of every innocent Christian
and Jew. Godless zionist nazi bastards are as evil
as they are dumb. Get every man who defends freedom
truly to hunt down these satanic demon ENEMIES for
thee True Jewish Cause, to ask it why it lies as an
enemy to HUMANITY, to murder innocent others as
evil doing thief to Freedom. A thief of Jews
everywhere to know truly God as Love and Justice.
Not only will Americans celebrate these neocon criminal's
freedom to call for the murder of innocent Christians,
as he does without arrest, "Americans" too, will as
Satanic refuse to hunt the ungodly enemy of the Jewish
faith down as Nazi hunters. No, Americans, cowardly, are
committed to dying with the Nazi Elite, as such
to escape of the Neocon terrorists who participated
in the mass murder of America for more stolen money
as war criminals.

THESE ARE SERIOUS WAR CRIMES

Israeli soldiers say they have OK to KILL Innocent People
http://www.mcclatchydc.com/251/story/59704.html

Israelis 'shot at fleeing Gazans'
http://news.bbc.co.uk/2/hi/middle_east/7828536.stm

They'll murder anyone human to steal our homes.

-

We battle injustice by demanding the public
arrest, and trial for execution of proven
war criminals. Now, who disagrees?

Israeli using Palestinian Kids as Human Shields
http://uk.youtube.com/watch?v=rXq57XK2L0A

Israeli Soldiers using Palestinians as Human Shields
http://uk.youtube.com/watch?v=FjEd4hJNVCE

Why do you as an American, refuse to contribute
to Just cause?

These monster enemies of Hillel are inhuman
to their prisoners, prisoners who had their
homes stolen and are denied freedom for being
born to Nazi tyranny. Demand Justice for
yourself as a Human.

Some Serious Evil Jarg in Dishonest Reporting
http://www.aish.com/jewlariousMultiMedia/jewlariousMultiMediaDefault/Israel_Unfair_and_Unb
alanced.asp

Forgetting about the truce given to those in
a concentration prison camp? Where they are denied
food and water? In curfew prior to near half the
days of the year, for years? How could they not
to claim such self righteousness? They don't bother
because they'd rather YOU were made innocent victim,
then them, Zionists who would screw you out of a house
called home. Did you know: they openly steal Peoples
homes in that criminal nazi state labeled godly?
Of whom openly thieve? Officially? Yes, and they try
to thieve the title of Jew from the Messiah too,
but I'm not going to a slave prison death camp
for innocent humans, I'm fighting back to demand
open communications to rule true Justice concerned.
Freedom is paramount. 911 perpetrators will be
brought to Justice by King of Jews Johnny Dazzler.

-

Israeli Murders Officer to make it look better

israel-fakes-rocket-fire-fatalities-in
http://stevenwarran.blogspot.com/2009/01/israel-fakes-rocket-fire-fatalities-in.html

/ / And we may assume that he was a non-Jewish
member of the IDF, given [...] \ \

Lawless evil doing for neocon lying criminals
really sucks man. Our friends are dying murder
victims. They are robbing our humanity of common
decency.

Neocon Enemies of the Jew do not Care for Truth

ElBaradei says Iranï¿½s nuclear program is legal: report
http://www.tehrantimes.com/index_View.asp?code=184534

But Neocon enemies of the Jew do not care for Truth.
They lie as enemies to God, on hopes to murder Jews

like they did in Lebanon with millions of land mines.
What kind of "Human" would commit such crimes against
Life? Cheating Liars for Satan Johnny tells YOU.

When Bush asked about his errors in judgement:

/ / you know, could I have done something
differently, like land Air Force One
either in New Orleans or Baton Rouge. \ \

Would have been better PR he means? Likely.
He walks away looking good, your family is
dead, or dying due to criminal neglect for
cash profit. Did I tell you that the private
bankers don't even cover our loans yet?
Trillions given by Americans, now Obama is
asking for more to disappear. THEY DON'T
even tell US what they've done with the
eight trillion already taken. Desperately,
Life Begs, THINK ABOUT THAT. King Johnny
for Coast to Coast radio host.

/ / So what is Ron Paul saying about Ron Paul?
I'd wager, he doesn't know himself, and fears
like FOXNEWS from open debate \ \

Excellent! if I do say so myself.

-

The Queen Shall side with The Great Nation

You can not hand over a prisoner for the crime
of refusing to commit a war crime. Otherwise,
YOU'D be a war criminal like now Harper is.
A Zionist appeaser. The government of Canada
already decided on this issue, and the vote was
137 Patriot to 110 neoconned bushite dumfuk.
The Iraq War is a war crime. These be demons
that steal our democratic voices, by denying
freedom from a man who's capital offense, is
that he tried to be fair for all parties. See?
War criminals.

The Queen Shall side with The Great Nation of
Canada Vs. S. Harper on this. Ask her.

God Bless the Queen.

-

/ / destroying Hamas terror infrastructure \ \

As Satanic, they TARGET TO MURDER Christian
School girls, and claim, none on Earth will demand
their public trials for executions as War Crimes
against God, because to the Satanist LIAR, (and
many "American" "Christians") God doesn't exist
within YOU to demand Justice for our Times.
YOU change that.

Evil on Parade

43,000 FoxNews Zionists in America, sign petition
in YOUR INNOCENT BLOOD calling for censorship of
Gaza conflict across all America

http://www.iraq-war.ru/article/186735

Stressing that Israel was "the first to stand
up against pure evil." [See? A zionist Nazi argues
it's good to get killed Jews by breaking truces
with a prison death camp, cause look at all the
free American Welfare money we can steal through
kicking-back AIPAC members in Congress.]

"I demand that the use of images and headlines
that misrepresent current events to the detriment
of the State of Israel be stopped immediately,"
the petition went on. [and the 'judge' judges
anything detrimental misrepresents the constant
LYING nature of the Nazi Zionist thieving pirates
of the Jewish Faith?]

This is detrimental to Zionist war criminals
because it exposes their TRUE EVIL NATURE..

Israeli Forced to Admit in League with Satan
http://uk.youtube.com/watch?v=zfFMZ7Y-s_c

Israeli forced to admitting, it lied as a demon
enemy of Life about tin can rockets falling
into the head of a good Jew, prior to the
Neocon LIAR's ungodly criminal attack for
senseless war against Humanity in the region.
When Jews die, these Zionists really take
everything like bandits., Peace where smarter
People speak freely for Justice? not so good.

The Other Side of the Story!
http://palestinian.ning.com/forum/topics/the-other-side-of-the-story

-

I Want My Bailout Money by Michael Adams the Health Ranger
http://www.youtube.com/watch?v=dnT21hmlT4o

Breakdown Dead Ahead
http://www.youtube.com/watch?v=yFCnVC2C8As&feature=related

-

Simple Common Sense for Mankind

/ / Israel has admitted HAMAS kept the cease
fire; and that Israel broke it, then unleashed a
total starvation blockade on Gaza followed by
flaming death from the sky aimed at schools,
hospitals, ambulances, and children, and you
dare call the people opposed to such barbarity
a "mob?" \ \

Zionists are evil people who pretend they
are honest, when lying directly to everyone.
Blitzer reports Hammas broke the truce, he
is lying to continue the murder of innocent
peoples. Understand: Israeli Nazi state they
will continue to murder our innocent Humanity
until the rockets stop falling on Jews. Yet,
they broke the truce, and murder Jews routinely
with reckless abandon. Jews from the Bible as
of "nigger" Ethiopian, are what the Zionist
hate when warring GOD for apartheid, apartheid
that is Humanity in Gaza. A zionist is a war
criminal who speaks not against the neocon,
but against Innocent Humanity as YOUR enemy.

Livni: Gaza truce would give Hamas legitimacy

As they always do because they are dishonorable
murderous nazi thieves of God as Just cause is.
I am, and YOU are, you just maybe don't know it
yet, or if ever. A zionist serves Satan to escape
the neocon terrorists from their ungodly crimes
on 911.

http://desertpeace.wordpress.com/2009/01/12/gazatoon-of-the-day-blaming-the-victim/

Ron Paul:
US Will Be Rightly Blamed for Israeli Killings
http://www.youtube.com/watch?v=6C756NOPyDA

Not the Nazi Israeli?

The guilty party are those who advocate these
mass murderers of innocent peoples with
deliberate lies, like from Blitzer. Blitzer
will be tried, and executed a war criminal
for stating Hamas broke the truce., Where,
only two minutes earlier, he learned, that
it was his Nazi partners. DEATH SENTENCE.

It was on TV. BUT SEE? Ron Paul, the Libertarian,
ain't going to be honest here. He'll lie cheat
and steal Humanity's voice for Justice - like
he did with OUR money. A typical Libertarian
like Alex Jones who wants to blame "socialists",
"Liberals", aka, all of innocent America.
Blitzer is war criminal, who makes his own
discussions. As is Ron. What an enemy to not
mention the truce. THINK: IT IS THE ISSUE. But
Ron plays the dummy to kill more with contempt
for Freedom. Ron Paul, the bigot, asked,
'should we be doing this'? SEE? it's not first
degree mass murders, no, according to Ron Paul,
it's argumentative that indiscriminate mass
killing is a good thing really. Remember,
Ron Paul does not support arresting those
who committed mass murder on 911 either.
Or those who STOLE TRILLIONS. Or lawless Bush,
the ACTUAL AntiChrist enemy of God. Ron Paul
will watch America die for a stolen dollar.
And Alex Jones will refuse all calls to label
him good guy like himself warring order
to our universe for it.

Israel is [NOT?] responsible for these childrens death
http://uk.youtube.com/watch?v=Y9PIZQqIep4&feature=email

Ron Paul "When we pick sides, we make it worse"

He also took our millions donated for freedom
fighting away for his family, but not our own
as dying innocent victims giving. Pick a side.

-

Contribute to our rise for the popular will

Alex Thomson shuts-up Israeli spokesman!
http://uk.youtube.com/watch?v=zIQZ1-RFq6A

Wow. The demon LIAR will also say Hammas broke
the truce, and Israeli started this by stealing
innocent peoples homes, then imprisoning
ourselves, the victims, in a death camp for
indiscriminate slaughter. While they STEAL OUR
CHARITY. What is it that YOU can't picture?

Hi. My name is King Johnny.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

-

/ / The targeting of civilians, whether
by Hamas or Israel, is a war crime. \ \

They are targeted by Obama who suggests
there is an argument to be made here. There
isn't. Nazi Israeli DEMON LIARS broke the
truce to kill Jews for money. They are godless
enemies of Humanity. So it isn't that we are
pro-Palestinian, it is that we are pro-Human.
Zionists DESERVE to die, before US, the innocent,
they target for murder for stolen cash gain.
Like Obama has promised to do for AIPAC. But
what about the rest of US 6 billion plus Obama?
Who is it of US innocent folks do you wish to
MURDER, or torture next as a Zionist war criminal
for Satan Obama? Torturing kids is popular in
Israel, tell US Obama, which American father will
have his children tortured, or murdered
sadistically by yourself as a whore for Nazi
Israeli? tell us, we're not waiting.

The Chosen Bad Example

Zionists Destroy Our Homes as Satanic
http://www.youtube.com/watch?v=mo2HW4T7wK4&feature=related

When I see the women and her child, left outside
while they sadistically destroy her meager gains,
I grow weary with ourselves for not speaking right.
Nazi Israeli are committed to deny US our God given
rights as Innocent persons to speak freely for Justice
realized. All because they STEAL our Lives for monetary
gain. It is our reality, give it or take it, YOU LOSE.

Then.. Hammurabi founded Civilization.

I go concerned for any hesitations of condemnation by
Obama. It's like, he's talking some jive about
how now he'll NOT let the words of Hamas reach
his ears. Being against war criminals, doesn't make
you pro-Hamas, necessarily, it means your against
war crimes to defend the lives of ourselves respected.

We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.

TALK IN AMERICA
http://www.mediafire.com/?mxw3nzi4nzf

Nazi Israeli STEAL Peoples Homes without
apology, as a function of their SATANIC
government, while collectively bombing the
INNOCENT victims who die because of it.

Gaza 2009 - Operation Cast Lead
http://www.youtube.com/watch?v=hFEiOfLUfzY

Again, they are Satanic here because
they THREAT to tell you, yeah, Zionists
are casting the leads for the real mass
murder scenes - Justice denied Humanity.
God doesn't exist to defend yourselves
from war criminals for Satan.

War crimes trials with public executions
will commence against ever GUILTY zionist
living to lie that Hamas broke the truce,
that Georgia was attacked without provocation,
(again, CNN are not 'accidentally' conning
US here). And trials for every last living
bushite bomber, rapist, and torturer -
death to the bushite, the true traitors who
war against freedom for America, traitors who
war Innocent Humanity for the escape of the
neocon zionists.

-

Both parties cheerlead loudly for Israel's war Against Humanity
http://www.salon.com/opinion/greenwald/2009/01/08/israel/index.html

Death sentences MUST be willed by Christians for war crimes.
Death to the bushite, death to the enemies of God and Man.

-

For the Great Truths. We Stand United

/ / This option is also regarded
as a non-runner as the US would certainly veto that
suggestion. \ \

No no no no. What you do is investigate who this
the "US" person is as the GUILTY party my friends.
The facts have spoken for ourselves without contention.
And while we're at it, try to figure who that "Army
says.." person is too, we need to know who these
traitors are who hide their names backing war crimes
to continue. The Enemies of Civility, they are
enemies of US all my innocent friends, enemies of US
all.

-

Here on a Mission

/ / after dropping leaflets warning residents it was
about to "escalate" its offensive against Hamas. \ \

SEE! This is AFTER fire bombing the whole community.
Satanic evil enemies of Life. Who admit to targeting
any one who has ever so much as swept our streets,
warranting bombs dropped on their Block(s). SEE! they
are ENEMIES OF EVERYONE. EVERY LAST ONE OF US.
INCLUDING GOD.

It's a prison death camp, brought about by Israeli STEALING
OUR Homes as ungodly thieves. Thieves who leave a Jew
to starve to death in a garbage dump because, it'll
attract more charitable aid The Zionist can use
elsewhere. It's not a Jewish thing, it's a criminal
matter. They STEAL innocent Peoples Homes in that
country. God's Country? God would will such criminal
offense? Which God? Not the God of Abraham, nor by
the teachings of Hillel, Christ, Mohammad, or
Confusion? So which absent God do you speak where WE
can't speak as ourselves openly for Just Cause?
Cat got your tongue? How come your not saying anything?
The Israeli Zionist ENEMY wants US ALL in slave
labor prison death camps silenced away that's why!

Israeli War Crimes
http://bothwell.typepad.com/whos_your_nanny/2009/01/israeli-war-crimes.html

Well, maybe I'm wronger on Ron Paul than I needed to.
Hey, don't you EVER forget, I am a man also. We need
to meet on common grounds, to demand the start of
formal arrests for the bushmob crimes of 911, Iraq,
Afghanistan, South Osettia, and Palestine, as a group
together united by agreement for this one cause, and
then... we can later argue about how your ideas are
better than mine because I actually know of which
your speaking.. Hey! you could call me Daddio if you
wanted! To the telephones we go.

-

Israeli are attacking prisoners held criminally
in their own Death Camps!! GET ALEX JONES ON THIS!

Hmm... why wouldn't Alex? to support his fictions
over Our Rights to Live Free perhaps? A Hero adapting
to the deaths scene?, or, a Bush whore committed to
enslaving Humanity, all so he can say, he told US so.
Big hero or big hero. Your NOT powerless to his vision
of complete control over information. He refuses 911
info, Iraq war info, Israeli info. All so he doesn't
have to look the fool, while Humanity dies with his
insults against our wills to make something better
of ourselves. Justice is what I will. Masturbate on
your own time Mr. Alex Jones.

If he states again about how he knows everything,
and is always right, and those that criticize
him on ANYTHING are delusional, it's going about to
make everyone further sick with this obscene take on
what life means as Alex takes it. If I truly state
two nickels make a dime, does that mean therefor
they make a quarter also? If I say so like Alex
would? He is an idiot. Truly. George Noory figures
Hamas broke the truce, and that the Mideast solution
is that Jews should be separated with special rights,
as oppressors over the freedom of every Palestinian
Prisoner, and what's Alex Jones gonna say about
his 'truth telling freedom fighter' George to actual
'lame ass evil nazi traitor' George?, to YOU about
how George is just trying to murder millions of
helpless people as an offer for the final solution?
We can expect Alex now to claim, Zionists should
have special rights over Jews, all to maintain
his FICTIONS on Noory being anything but the
monster to Humanity he is. Just because Noory
doesn't growl when talking about murdering all
children in around the age of 15, or against
soldiers who refuse criminal orders, does still
make him a true fascist nazi enemy laughing at
your murderers escaping to live freedom in
our dying forsaken worlds. The bushmob doctored
the NIE. Conned Congress, and Soldiers. Did 911,
by closing criminal FBI investigations immediately.
Alex and George don't seem to want US to know
these FACTS that demands arrests of the culprits
responsible for high treason against Johnny's
America. Now, who's with yourself. I am! I am!
I am!

Alex Jones doesn't know squat of Social Security, but
pretends he does, like Ron Paul does when speaking
of the Federal Reserve, Health Care, IMF, World Bank
blahblahblah.. I mean even the expert of experts
Alex has on near twice a week, EVERY WEEK, to talk
all about how the Illuminati are doing everything,(give
me your money now for whatever), DOESN'T SAY TO KNOW,
it was Chris Cox who changed Investment Banker rules,
to cover instead one tenth of WORLD INCOME loans,
to one twentieth. MORE THAN DOUBLING THE ENTIRE GLOBAL
MARKET FOR LOOTING WITH HIS SIGNATURE! (And. that isn't
even a fifth of the TRUE trillions dollar fraud story.!)
Now, granted, I wouldn't expect one tenth of one percent
of America to have even a distant clue of which I am
speaking, but importantly, Alex's expert of experts has
never mentioned it. EVER. Why? He don't give a fuck, but
how much money he can get you to give him for investing

in things that are un-important to our struggles, but for the fact, he states, you'll get free money for nothing!! OUR ACTUAL PROBLEM. It reminds me of those Ron Paul dollars... where Ron'll fix everything, cause we, as a private company, are going to make YOUR money instead... holy fuk mon.. Talk about the kettle calling American racists. Thank God the FBI stepped in. (The answer unfortunately is not nowhere as easy as Alex would blindly lead you) - again, so I guess it will be, Americans were just too far gone as illiterate chauvinists, who cared too little for your freedom as themselves degenerating. Why? To battle tyranny they knew not Justice wins the day, and blamed innocent groups gathered wherever, instead of following the crime scene leads at the real murder scenes - like was once done on TV and at the Movies. But even that was too far above their doped down heads, to raise their finger to dial a phone number.

The head of GCN has a son warring God to rape American women as lawless enemy in Iraq for the Neocon - again NEVER mentioned as something worth fighting against for Freedom in America - soldiers are suppose to REFUSE criminal orders - but not when Alex is at the mike. He will never mention the Bushmob doctoring the NIE to con America for death as exampled, because it doesn't fit his fictions, where all the bad guys escape because they are geniuses headed by secrets so powerful, nobody can ever know'em, except Alex. He tells us near every day, he knows everything already, and is never wrong, therefore you can't criticize him. Bullshit. It's like he wants to be wise like Johnny Gawd is, without doing anything like studying for a test where the teacher actually does know the issues. He told US today, the British came up with concentration camps, from the Indians - who spent all their lives murdering themselves. The British 'invented' false imprisonment? The British came up with the, Jews Killed Jesus? The British invented Pope Gregory VII? I suppose Alex has never heard of Ghettos. SEE? he just pulls shit out of his ass, and calls it like it's truly pure gold you'd wanna buy. Those, like your typical American have no clues, so they figure, Life must be sorta so that History is all one big Alex Jones NWO cartoon. What? that the NWO did 911, and everything else that use to instead, require criminal investigations to nab the actual evil doers? Alex Jones IS the NWO he tells US all we should be concerned about never stopping, like it was in the DARK AGES. Justice Alex, why is

that hard for you as a "Conservative" to figure? Is
it because you are cowardly in the face of true
Liberty? Afraid that some People, on some Issues,
ACTUALLY know a great deal better than you could
even imagine presently? Don't like that do you?, where
you don't rule this Universe as a lawless tyrant
desperate to live in an illusion at the expense of
everyone else dying victims to censorship? Does he try
to find wise men or women? rarely. "Ron Paul [MUST]
leads our truth movement" - like, fuck off already
with the Ron Paul, The Truther, Bullshit Alex Jones.
1% is what YOU get on Social Security deposits - 1%.
And.. Bush stole 700 billion. 700. Billion. That's 700
BILLION. It's a "Trust" account. A "Trust" Account. It's
being held in "Trust" Alex. Ron Paul is asleep at the
wheel. As, so are the rest of all you other fools..
I want Justice, and I want it now for all the victims
of 911. Americans be damned, we want Justice, and We
want it Now.

Again, the two Laws of Johnny:

1. No evidence, person innocent.

2. Torture? fuk you and die then

"Rice says it is 'hard' for Israel to spare civilians in Gaza"

We KNOW they are ONLY targeting innocent People,
the ungodly zionist Satanic enemies say so..

"Israel Rejected Hamas Cease-Fire Offer in December"

Livni has declared her country "is not going to show restraint"

"Her" country?

It's like she's admitting here, that they DO NOT
target the IDF's Hamas, but only our innocent lives
as a threat to LIFE and GOD. Remember: the Zionist
LIARS broke the truce.

' In Civil-Contempt Cases, Jail Time Can
Stretch On for Years for Americans, without Ever
seeing a day in Court. '

Where are the arrests?, then firing squads for
the Judges who 'judged' such criminality against
freedom for US, the Peoples in America?

' Where Did Taxpayer Money Go? Panel Slams Treasury
[FOR STILL REFUSING TO SAY] '

Where are the arrests?, they stole eight trillion
and counting.. And Congress 'slams' them for
disappearing OUR MONEY. Slams with what?, a,
don't do that again please butt sqeeze? It should
be massive slammer time, with a return of all
STOLEN monies.

' THEREFORE, those pro-Israel politicians in Congress
won their seats in part using stolen money. '

Where are the arrests? Amerikan bushite nazi grunts
are assisting in the mass murder of innocent Christians
in Palestine. War crimes demanding death sentences. It
isn't an argument that can be turned around. Nazi Israeli
STEAL Peoples Homes without apology, as a function of
their SATANIC government, while colectively bombing the
INNOCENT victims who die because of it. It's a prison
camp! they are denied water, food, shelter.. since four
or five truces over that they've broken, every one. These
are Satanic enemies, willing War Crimes against God,
a God NOT loved by zionist American Nazis. And a Son
as powerful as the four winds, ridiculed by Zionists,
and American know nothings, for the continued debasement
of YOUR soul worth here dying.

Israel Attacks Iran News Station

Why does not Iran DEMAND arrests, and death sentences
for these blatant war crimes against Humanity committed
by Amerikan Nazi Israeli Zionists? Along with the
perpetrators of 911? WHYWHYWHYWHY. Russians! Can you
help US out?

-

THE NAZIS SHELLED THE HOUSE WHERE THEY HELD
INNOCENT CHRISTIAN PRISONERS
http://uruknet.info/?p=m50596&hd=&size=1&l=e

Rise up for Justice American Christian, or
die innocent victim the Son of God does say.

-

Pictures of Alex Jones masturbating
"we were right about it all."

George Noory tells us openly, he's
into killing innocent kids for profit.

Traitors to the Cause

Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression.

UN: Israel Admits Claims About Attacked School Baseless

US military re-supplying Israel with ammunition through Greece

/ / UN Call for investigation into shelling of
Civilian shelter \ \

Investigate that evil does exist in the thieving
LIAR name of godless Zionism? The enemies of God
and Jews everywhere?

-

Freedom Granted by Americans for Neocon Liberators

"Americans are having their heads velcroed to chairs
and forced to take in nutritional supplements by a
tube forcibly inserted through their noses by US guards."

These are People not charged with any criminal
offense don't forget. Die bushite die you know is
what I recommend, as does Reagan. A dead bushite
means you've saved the life of their next victim,
an Innocent Human Being guilty of no crimes. The
war criminal enemy is the bushite, the Zionist,
the LIAR neocon traitor to Life as this Universe,
along with every dumfuk grunt who serves tyranny
for the bushmob at Guantanamo, Iraq, or Afghanistan.
It is a soldier's oath to obey lawful orders only,
but Cheney they don't take out with American Law -
how come? cowardly fascist nazi whores for Zionism's
evil as the ungodly that's why. Cowards dying for
the escape of the Neocons from the 911 scene as
reported publicly. - Vs. US. That's we whoever
you are.

Widespread Suffering and Death
http://www.youtube.com/watch?v=gVdee2iXSVk&feature=related

Notice no one shoots at the blimp fire bombing the
entire neighborhoods. And if it's phosphorous, that
smoke is already deadly toxic. That is why it warrants
the Death Sentence under International Law when used
against OUR Humanity, as the most evil of Nazi War
Crimes ever. The neoCON LIARS are the LIARS conning
you here on our TVs and Radio dramas, in where, they
don't want to openly take our public calls for real
Justice. Bush and Cheney are traitors to the cause of
American Liberty. To leave them free, is to leave
America un-guarded from further transgression. So,
them being "puppets" is even all the reason more to
insist in their capture for trial by Jury. A Public
Jury of our Peers. Now, who's in with You? You can
count me in. and I bet willed to action, we will find

others to be something of ourselves too.. Justice
and Liberty for All. Equal rights given is what true
freedom is as measured. Translated from the 'Alien'
dialectic to Amereeze jank vibe; where is the fucking
evidence here Neocon traitors who false accuse to lead
us off the straight and narrow? It leads to Bush,
Cheney, Rumsfeld, and Condi that's why I figure, you
figure, they figure, we figure, so... what are WE
going to do about this sacrificing for godless tyranny
further then as unrepresented?

If Americans Knew What Israel Is Doing! VIDEO WAS CENSORED!
http://www.youtube.com/watch?v=ynWjYHP91gA&feature=channel

Views: 1,212,890

Israel Facts the Media Isn't Telling You
http://www.youtube.com/watch?v=QKq38COoTG8&feature=related

Views: 358,960

Maybe we know it, but we just don't know it yet?

-

Israel Attacks Jews,
Silence from Mainstream about Violation of Law
http://www.youtube.com/watch?v=K1kt8qi0M-M

They kill Jews for money. They bombed Jews in Lebanon
for money. They want to bomb the HUGE sacred Jewish
communities in Iran.. wonder why? Zionists are not
Jews, for Jews don't steal in God's good name. Nor
target innocent beings for stolen gains. A zionist is
a thief to life, and as such, needs to be formally
charged for their criminal offenses, given lawyers,
and upon a successful prosecution, rot in a prison
cell and/or pay restitutions. YES. why? so not another
innocent person must fall in their place as next
victim to a zionist's public commitment to lawless
tyranny for evil intentions.

Johnny for Coast to Coast Radio Host

-

Israel Phones 'Terrorists' Before they Bomb Homes
http://www.youtube.com/watch?v=K5wrwZlwAq8&feature=channel

Didn't the Nazis say something like, they weren't
there to take out Hamas directly? Well, after all,
it was founded by the Zionist IDF, so I guess that
must be why they target our children instead..

UN: "Israel knew they were bombing a school"
http://uk.youtube.com/watch?v=uWP0GU0wVSk

/ / The hospital, and other smaller hospitals and
clinics were previously shelled by the Israeli
warplanes and tanks, stressed Hassanein. He
also denied Israeli claims that medicine and
medical supplies had arrived to Gaza hospitals. \ \

The Zionist is a thief of Life as our enemy.

IDF VLOG UPDATE: IDF Hits Dozens of Hamas Terrorists
- Capt. Benjamin Rutland - 4 Jan. 2009
http://www.youtube.com/watch?v=q9Jt-pV5wuM&feature=related

Zionist enemy of God

-

The Appropriate Response To Islamic Terror
http://revisionistreview.blogspot.com/2008/12/judaic-columnist-urges-kill-muslims.html

/ / an Orthodox Jewish Russian immigrant \ \

Let US never forget, the Zionists also would bomb
some locations, then later, drop the warnings
for the Jews to run for their lives. Didn't warn
them though if they get into a car or truck they would
be destroyed instantly by the Zionist flying the
America paid for Apache. I did a big show of shows
through that continued as, more 'un-resolved' crime
scenes perpetrated by the treasonous, neocon Zionist
terror merchants. It's like they think some dying
fools are going to keep going to save'em in the end
from ourselves as still suffering in Justice denied
as enslaving into ungodly tyranny eh? These Zionists
are not only the bad guys, but they're bad guys to
even the bad guys as there is no found honor among
murderous thieves. A Zionist will kill a Zionist for
a stolen nickel, as do bushites today. Hey! it's only
Your Life in the balance. Or are you one of those
who goes in America, it's okay, we're only murdering
innocent folks who don't live in Israel.

Doing what's right and just, or evil as dumb is
Your riddle. Get back to US on that.

We need People are Equals Power!

President and CEO of Shareware Earth Co.
King Johnny Wizard at your service me Lord.

-

/ / It is just unacceptable to apply two standards of morality, one for Jews and another for non-Jews. For if what Israel is doing in Gaza is right, as Israel and her supporters maintain, then what the Nazis did in Europe several decades ago must have been right as well. And vice versa. \ \

The ungodly zionist enemies, are enemies of God and Man. Don't think the NAZI Zionist like Bolton doesn't know this, with his friends at FoxNews.They WANT to rape, murder, and pillage America all her freedoms for the bounties of private banker frauds. The banker does not ever cover our loans, we do. So, why give them trillions of American worker waged dollars for nothing?. THEY DON'T COVER LOANS. See? that is what this war against God is all about. People of Humanity just seem to truly hate a guy like US as wise and Just. See, people hate US, because they can't for their lives disagree with Facts. Why won't YOU support these same rights and champion our demands for open communications. Johnny for Coast to Coast radio host.

US Again Stops UN Call for Gaza Truce

Who is this the "US" person?, and let's put him to death with Bolton and Kalilazad for the most serious of war crimes against OUR Humanity. Remember, Bolton was NEVER confirmed because, the Zionist could find no man or woman to say a single kind thing about him. FACT.

CNN: The Nazis Broke The Ceasefire!
http://www.youtube.com/watch?v=KntmpoRXFX4

Protest pictures from around the world (not on CNN)
http://www.rys2sense.com/anti-neocons/viewtopic.php?f=11&t=16496&start=0

Remember Israeli nazis to this day, insist as DEMONIC LIARS, Hamas broke the truce - as Hamas is responsible when they target school girls for slaughter. They said the UN were secretly attacking Jews, clearly a LIE as impossible to prove because it didn't happen. But facts are the furthest thing away from the godless false accuser Zionist con man or demon witch LIAR like Livini. FoxNews calls the demon witch a Jew! ANTISEMITES.

We can witness, Americans do not have the intellect to understand what this means. See, LIAR Nazi Israeli broke the truce to get killed Jews for money. A

regular fair for Nazi Israeli. Now, they state they
will continue to indiscriminately murder humanity
until the tin can rockets that travel miles stop
killing Jews who hate Zionists. But importantly,
it is Israel that wants Jews to die, so they can
make off as Satanic with our stolen values. Just
like the Bush family did with Hitler, that the
Nazi Nation has no probs working gun in hand to
wipe out Jews everywhere still to this day. Again,
Nazi Israeli MURDERED JEWS in Lebanon as targeted.
And leave Jews to starve to Death in Israel for
more charitable aid they can use elsewhere. Public
knowledge not disputed by any living soul on this
planet because, the Zionist government admits freely
to this. Israeli think being Satanic is worth it,
for all the money and lives they can steal as enemies
to Christ, Hillel, Mohammad, YOU, blahblahblah.

http://www.liveleak.com/view?i=ab0_1231290043

http://www.kuwaittimes.net/upload/img_pict/headline9637e7.jpg

Read of the bushite in my America who call this work
of Satanic enemies, a good thing they support to
war terrorism for the sadistically evil liars of the
neocon. Then KNOW my friends, a bushite is the enemy
of every living soul on this planet. Have no love for
those in the Air Force, the enemies of Man who bomb
our families without excuse, but to know, they hate
US as Christ to speak free for Humanity. That DEMON
George Noory was so happy last night about all the
good the bankers AND CHENEY are doing for their hatred
they spoke of for all Russians. SEE? not to protect
America, but to kill you with their true commitment
to the demonization of innocent people, all to escape
the neocon terrorists. I HATE George Noory more than
anyone alive in America. He is so openly evil to ourselves,
that only those who wished to lie to you, (like Alex
Jones does about Ron Paul), would say otherwise as
bushite dumfuk enemies. Cowards committed to escaping
Bush and Cheney for treason against Freedom. They
doctored the NIE on Iraq, highest of war criminality.
Alex Jones has never mentioned it, but for MAYBE in
passing. Hey because all the bad guys are just puppets
to ignore over the elites, globalists, socialists,
liberals, gays maybe, Blacks, Mexicans, and anybody
else smarter than NWOer Alex. Ron Paul is a coward as
rarely if never has a clue of which he is speaking on.

Israeli PM says to end offensive if Gaza ends rocket attacks

Sarkozy urges Syria to press Hamas for Gaza truce

How does the ungodly get away with this obscenity? Nobody can deny Nazi Israeli broke the truce, as they always have done as Satanic for the last 60 years. Killing Jews for money is popular with the Zionist Nazis don't you know us by now? FoxNews CONNED Americans for DEATH with the unmentioned, TREASONOUS doctoring of the NIE. To kill Americans for more neocon gains, which Alex Jones never mentions either. Do Americans even care enough to raise Humanity's call? Do they demand public executions of sadistic godless Zionist torturers? as the Standing Law of America - The War Crimes Act - brought to be by Reagan - DEMANDS by the Law of America? It is the Law after all, yet, CNN, CBC, and FoxNews calls the perpetrators of the most heinous evil against Mankind, heroes. America is
a nation of godless cowards willing to die murdering innocent Christians in Israel, all for the profits of the 'magical' zionistic private bankers. Bushite grunts are now supporting the indiscriminate carnage, serving as police services forbidding any of the prisoners in Gaza from fleeing the indiscriminate slaughter. Again, as Satanic, they don't arrest the "Suspects", for what could they truly charge them with?, no instead demand we die helpless murder victims by forbidding escape, as they did in Fallujah murdering more than three hundred thousand innocent souls. Die bushite die screams to all men on Earth from the Son of God. Will you stand for YOUR life as truly worth something here? Like lawless enemies Policing your reality will bring you more happiness and prosperity with the great truth teller HAPPY George Noory? The demon who openly confesses the will to want to murder all children in around the age of 15? Too crazy for you to face such an enemy of huge demonic origin, so, go the cowardly way like Alex Jones as sell out slave instead, to cover the demon with endless praise on his treachery to not have our fight on everyday with open calls for understanding Justice is freedom. Instead of a constant stream of bushite dumfuk enemies of Living. This isn't complicated. Or it doesn't have to be.

Israeli nazis state they will murder humanity indiscriminately until rockets stop falling on their country. Yet, they broke the truce.

Alex Jones told US as a deceiver, he's been on Coast to Coast a hundred times. Not in these last eight years he hasn't. I demand Alex prove this, or be known by all far and wide a treasonous liar, trying to take US off the tracking of

criminal action of his buddy, the demonic enemy
LIAR George Noory. bin Laden didn't do 911,
despite the facts that WE KNOW George Noory
knows better of but LIES to con the American
teen further for death at the profits of the
un-elected bushmob. See Alex wants you to blame
anyone but those directly involved in the crimes
of 911, or Iraq, or those responsible for it's
cover-up by Zionist propaganda. George Noory will
have as invited guests whos only function there
is to spread dis info as supporting more
indiscriminate warfare for the escape of the
neocon terrorists responsible for starting the
illegal wars to begin US at. Or those whom often
support torture, a war crime that only exists as
irrationally held by those who's minds have only
a blind hate for the indivisible rights of
another innocent other. And often truly hate men
and women for being Just as wise. The McCainiac
Zombie video is a perfect example. When the Zombie
is asked about the rights of Women, the McCainiac
Zombie cried out for raping more Women. The
position of authoritarian power, was only found
with the bushite as oppressor, rapist, torturer,
or Air Force Bomber, not liberation by freedom.
The bushite McCainiac KNOWS it can't compete
openly to defend it's criminal treasonous
actions! Remember, Alex "the Conservative"
thought McCain was the choice if you had to make
one, earlier on, then changed his position,
sort of, later by calling them all puppets not
worth the effort, but .. Obama's idea's matter
not, it's that his Birth Certificate is, no war
too be fawned. Palin? who's she? McCain
firebombed Vietnam as "war hero" for France?
The Banker doesn't cover our loans? Matters
little.

Norwegian doctor: Israel intentionally targeting civilians
http://rawstory.com/news/2008/Norwegian_doctor_in_Gaza_Israel_targeting_0105.html

"All that is happening in Gaza here now is against
international law, it is against humanity and I
think it is against what it means to be a decent
person. You don't treat other people like this.
Even if you disagree with himï¿½ maybe even if you
fight with them, you don't treat civilians, children
and women like this."

Israel deliberately targeting civilians in Gaza
http://www.youtube.com/watch?v=Ev6ojm62qwA

It was almost acknowledged on CBC radio that
nazi Israelis, use the argument that a tin can
rocket traveled miles, to kill some innocent
Jew as a direct hit (likely a person who hated
godless NEOCON), all because that nazi state
has OPENLY, as PUBLIC policy, stolen water and
food including baby formula, along with a huge
list of other atrocities, to punish God and
Humanity since way back before three of four
truces. AGAIN, Nazi Israeli always, as ungodly,
break their truces. Why? Because YOU, or Christ
as any Jew's life means nothing, to all the
'free' billions they'll get from given American
worker wages. Look, Americans refuse to call
for the arrest of Bush on their national,
"truth telling" Coast to Coast radio program.
Why? Because, for one, George Noory, (Alex
Jones' best buds), has told US he's into
killing innocent kids as powerful, and that
'bin Laden did it', Is good enough for US.
You don't get a say here however how you will
live or die. George Noory calls all grunts
heroes, and those who refuse criminal orders,
those he wishes to go ballistic on. Yes, it's
true, George Noory is still alive and happy
as ever.

Rise Up for innocent Life, or don't and see
where it'll get you in the end.

Stealing the Title of Jew from Christ:

Fallujah by the Sea: Aping America, Israel Unleashes Chemical Weapons
in Gaza
http://uruknet.info/?p=m50412&hd=&size=1&l=e

Look at this picture of nazis indiscriminately slaughtering
our Humanity, while on MSNBC they reported that the Nazis
will continue to murder Humanity until a truce can be found,
A truce that the Satanic enemies of God will naturally break,
as they ALWAYS do. They are godless enemies of Life who wish
to steal the Title of Jew from Christ. They targeted Jews in
Lebanon with seven million land mines, and let Jews starve to
death in Israel for more charitable aid they can steal from
G-d's Good Will. When asked by Israeli newspapers why, it was
said to kill a Jew is rewarding for the godless Zionist.
Public record. Die bushite die.

http://lataan.blogspot.com/2009/01/israeli-zionists-guilty-of-deliberately.html

/ / In doing so, this makes Israel guilty of using
its own people as ï¿½victimsï¿½ for political purposes. \ \

-

What Israel Does Not want God or Humanity to See
http://www.kawther.info/wpr/2009/01/04/what-israel-does-not-want-you-to-see

Look at the comments from bushite grunts glorifing
in this indiscriminate slaughter of Innocent Human
Beings. Evil enemies of God do breath our air.
Die bushite die.

Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus!

LEAKED: graphic, uncensored video shows carnage in Gaza
http://rawstory.com/news/2008/Leaked_graphic_video_shows_carnage_in_0104.html

Zionist Enemies of The Jew do not Care for The Truth
http://video.google.com/videosearch?hl=en&hs=0hK&resnum=0&q=911+missing+links&um=1&ie=UTF-8&sa=X&oi=video_result_group&resnum=4&ct=title#
Zionist Enemies of The Jew do not Care for The Truth
-

FBI E-Mail Says Bush Authorized Abuse of Iraqi Detainees
http://uruknet.info/?p=m50369&hd=&size=1&l=e

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ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

Israel or Hamas who broke the truce
http://www.youtube.com/watch?v=KUfgULhac8c

ISRAEL BROKE THE TRUCE - ISRAEL BROKE THE TRUCE

-

a-mother-from-gaza.blogspot.com

This web site is the winner of greatest interest
internet site of the years 2000s.

Israeli plan to topple Hamas, re-instate Abbas
http://a-mother-from-gaza.blogspot.com/

/ / Breaking the truce Nov. 4, then, was Israel's
way of getting the gears rolling for this whole
sick game: the toppling of Hamas, and the
re-instating of the impotent Abbas into Gaza
so the "peace process" can remain forever in
formaldehyde, to quote wiseass, er., Weisglass. \ \

Nov 4th! - perfect!. We are dealing with Nazi war
criminals who refuse US, as a Species, Justice
for everyone. Especially The Jew's Jew, Johnny
America. Hint: they call us Love just to hide our
complete agreement with this Living Universe to

will Justice for God as every last bushite zionist
freely moving. Once all the neocon zionists are
rotting in a prison cell, or formally executed as
godless war criminals, we all will have one joyous
welcome in a heavenly future.. Until then, demand
Justice for US. That's YOU too. Angels included.
Who? I don't see no Johnny Wizard here anywhere,
We are Good to Go. Rise Up for innocent Life,
or don't and see where it'll get you in the end.
The bushmob are traitors for closing official FBI
investigations into 911, immediately after the mass
murder of Americans occurred. Treason, of a, trust
WE don't have it in US to stand for our common
values as the Revolution will not be televised,
Johnny Who. Man, are we or no? Be Somebody, then
get on your phone to call in for Justice willed.
Alive I Say! - this must be where you'd raise the
dead and dying.. if you only could raise your finger
to dial the phone numbers - well guess what? - I Command
You Can! - snapoutofit - Speak for pursuing Justice
on 911, and show serious concern for publicly paying
private banker men trillions in worker wages for
nothing. This is seriously disturbing, yes, but
seriously important to address openly in our spaces
to remedy with a Johnny Wizard World Wide Work of
Wonder, Super CNN Special of Specials, with Your
Host, the One and Only, President and CEO of
Shareware Earth Co. John Himself. Hey everybody!
Wow eh? So a.. when is the good guys showing up?
Now. Justice. I want US to Host Coast to Coast for
open Public communications, where things get
solved because we know whats we're learning about.
We of god, this way comes, then men and women with
calculators to know: giving money to private bankers
on hopes they'll lend a small fraction some back
to ourselves at high interest is dumber than rocks.

Arab American rally in Dearborn for Gaza
http://www.youtube.com/watch?v=AVP4_-u6MV0&NR=1

Israel Drops White Phosphorus Bombs, Littlest Victims Suffer
http://www.apfn.org/apfn/DU_Israel.htm

My friends, demonic evil forces do exist to STEAL
the living rights from anyone of us, especially
including the Jews. Remember, it is the zionist who
steals God's good name through lies left unchallenged
by private corporate interests tied to the CON of
private banking in total. Christ is a Jew too.
Israeli broke the truce knowing such action woud get
killed Jews in Israel, a cash bonus! Like starving

Jews do attest on a infomercial that ran for near
18 months across Canada. Then covered by the Israeli
press, that the Zionist officials there actually
enjoy the prospect of suffering Jews because it,
OUR SUFFERING, will attract more charitable aid the
ungodly criminal enemy can use elesewheres! Hitler
revisited. I am the Son to God and I wouldn't lie
to you about an issue as hughly Satanic as this.

White Phosphorous: Israel fires artillery shells into Gaza
http://www.sott.net/articles/show/172089-White-Phosphorous-Israel-fires-artillery-shells-into-Gaza

/ / My relative's neighbors- 3 young children- were
all killed today \ \

-

Satanic Enemies of Christ

CNN with Blitzer allowed reported on Larry King
that Hamas broke the truce, without any uttering
of fact. While when the nazi israelis were accused,
just minutes earlier, Mark Regev could say only
silence. The zionist Satanic enemies of Jews speak
only silence, because they know they are satanic
enemies liars of Human will.

Again, these SATANIC enemies break their truces
everytime, then state, it is Humanity's fault
because CNN will never ALLOW the humans to know.
They are murdering innocent People in hospitals
for example, or those in a Church, just as
amerikan bushite nazi grunts do for the escape
of the neocon zionists responsible for 911. To
hunt a lawless bushite nazi grunt, and kll it
instantly is to defend it's next innocent
bombing victims. Bush and Cheney closed 911
investigations on 911, therefore killing a
lawless bushite traitor for our Humanity is
just to get ourselves together to arrest those
responsible for mass murder on 911. The deaths
of bushite zionist liars is a mercy given for
the love of God. Die bushite die.

Israel Nazi State

Israeli nazis state they will murder humanity
indiscriminately until rockets stop falling on
their country. Yet, they broke the truce. They
always break their truces. Understand these
Satanic enemies of God, dropped seven million
land mines on Lebanon when learning the conflict

was over. They will kill Jews for money, THEY are the Nazis. Nazi Mark Regev is clearly insane. 'It wasn't israel that started this' He could not stand with any man without instantly being exposed to All of Humanity as a war criminal in need of immediate public trial for death sentence. These are only innocent people being bombed. In a concentration refugee camp. Look, it's a prison camp. And if YOU
were a prisoner there, and Texan child rapists are something you'd wish to defend your community from, you'd maybe join the Gazan police force, run by Hamas, a political group democratically elected. All police officers in Gaza, Nazi israeli claims warrant 1000 lb bombs, not warrants for arrest for a criminal offense. Remember, it was Israel that broke the truce, as so is spoken by Palestinian government officials speaking internationally - using the example from November. But understand, as Satanic fraudsters, they always fuck over Our Innocent Humanity this way.

What kind of "Human" would commit such crimes against Life? Cheating Liars for Satan God tells YOU.

The Bible "I know the blasphemy of them which say they are Jews, and are not, but are the synagogue of Satan."

Look, these enemies of Life steal INNOCENT PEOPLES HOMES as thieves of The King of Jew's simple philosophy.

-

Gray Ghost

/ / Funny thing noone ever shows pictures of the scumbag Hamas rockets falling on Israeli civilians, but the nooz is full of Palies suffering. Fuck you all I hope Israel exterminates the vermin. \ \ He can advocate the MURDER of innocent people for the neocon liars, and Google doesn't destroy his account?

Remember Zionist Nazi Israeli started all their murder rampages against Innocent Peoples for 'free' welfare money, as broke the truce with, IDF funded Hamas on Nov. 4th. They have been indiscriminately bombing People with excuses that never do add up. Example: Nazi Israeli stated they were in the right to murder ANYONE

in a car or truck in the entire nation of
Lebanon, (especially in the Jewish communities)
because like enemy "Gray Ghost" would say, all
those innocent Peoples deserve TO DIE AS MURDER
VICTIMS for his sadistic ungodly pleasures.
Remember, Nazi Israeli didn't mention this until
thousands has already been murdered, then even
still, without radio, TV, or newspapers, telephones,
or sky writing how were ONLY THE INNOCENT JEWS
as officially targeted to know? Then the seven
million land mines to kill innocent kids for
generations. To the enemy of Life, Gray Ghost
it matters not that Israeli started the conflict
by sacrificing nazi vermined trashed as Satanic
dumfuk enemy soldiers sent across the border,
to Grey Ghost, all it knows, is Justice must not
be allowed to win this game for our human race,
for he would be truly seen as a sadistic enemy
of Freedom, powerless, or rightly dead for
his proud treasons against life in this universe.

ZIONIST DEMON LIARS TO SHOW HIT ON TRUCK FULL OF ROCKETS ACTUALLY HIT
TRUCK FULL OF WELDING TANKS
http://english.aljazeera.net/news/middleeast/2009/01/20091117737115874.html

Please John begs all People's of Humanity,
Americans do not have the courage to even speak
concerns for their dying as evil state of godless
private banker ruled blind tyranny. 'Duh, yeah
give billionaires trillions, trillions, TRILLIONS
to help the poor homeless mothers poisoned by
FoxNews CRIMINALLY.' Gawly je, I dunt no y dat
detnt work-ed' - o wel, cary ohn my wayward Son.

Livni: Gaza truce would give Hamas legitimacy

See? this is why NAZI I$raeli thinks they have
an excuse for bombing people indiscriminately
to break a truce they signed on to. This isn't
a one time, maybe two time occurrence, but every
time in the last 60 plus years the zionists
aligned with Hitler have. Satanic enemies
of Humanity.

ANTI-SEMITE is FoxNews every time they assault God
with "Israel, the Jewish State" to torture, steal,
and murder.?. ANTI-SEMITE!

The Ungodly Zionist - a report from the front

/ / The most recent victim of Israeli airstrikes
was 10-year-old Ismail Hamdan \ \

To the Satanic enemies of Man, the Ungodly Zionist,
an innocent murder victim's life can not be allowed
a defense such as the charge of first degree murder
against Netanyaho because, he states no Justice to
any who believe in the Jewish cause, as Hillel, of
freedom as Liberty for all. If Jews ran Israel,
Netanyaho would be chastised publicly by the Humans,
for sanctioning the criminal acts of first degree
murder. The nation of Nazi Israel STEALS Peoples
HOMES. What other nation on this Earth commits
such willful crimes against innocent Human beings
OFFICIALLY? Steals homes from god loving innocent
folks and labels it our 'Justice system'? Who? Neocon
Amerika, the nation that gave trillions to bankers
recently on only prayers that their gods will maybe
lend some of their own money back to them at high
interest. But alas, evil is the deceived disguised,
as in their deep ignorance of money and virtue, they
do not understand, the private banker never covers
the loan. Never does a private banker reach into
it's pocket to borrow US to begin with - so as a
consequence, the bankers have just pocketed all the
'free' loot for nothing, TRILLIONS, and are not
saying why should they help anyone else with charity?
it's the amerikan way. Instead, hate the wise socialist
who designed a working good traffic signal system,
where lives are saved and congestion is eased, or
hate the white man, the black man, different People.
But never Mr. Bush, Mr. Cheney, or Rumsfeld, the
neocon traitors who closed criminal investigations
immediately after the crimes of 911 occurred, who
doctored the NIE to con America into death, and
never slight the trillioniare private banker gods,
who have stolen/taken our public authority through
war criminals in Congress. Taken from all others
to bring us a much poorer world suffering due to
our speakings of contempt for Justice as christians
in America - who claim in silence only indignation
for real Christian families robbed or murdered
Officially by the zionist state of ungodly Israeli,
paid for by dying America. Americans refuse to raise
their phones for the arrest of the bushmob for capital
mass murder, so, what's private trillioniare bankers
walking away with the entire economy in free fall
going to do for them, when they are already to
death for the glorious Zionist Neocon thieves of
Civilization? Proudly in hatred for Innocent
Humanity. Again, Hamas was founded by Zionists
in the IDF, to kill Jews for money - public record.
Jews starve near death in Garbage dumps of Israel,
all because the Nazi Zionist UNGODLY government

states it is beneficial to starve Jews, for, they will receive more humanitarian aid THEY can use elsewhere. Public knowledge. Zionist liars murder innocent Jews for money, like they did in Lebanon, and like the zionists did on 911 by forbidding the pursuit of the terrorists by following the crimes scene leads at the real murder scene. Unjust enemies of Man.

To arrest those responsible for 911, we are going to need to form a public warrant for a person or persons. Bush and Cheney are guilty of closing investigations on 911, treason, called obstruction.

UnHoly Nazi Israeli Racists are Greater than the censored words of Messiah!

IDF's YouTube Gaza channel to Correct Ourselves

/ / it will disseminate footage of precision bombing operations \ \

Precision? They dropped seven million land mines in Lebanon, after having seeked out where the Jews lived, (Northern Lebanon), and murdered them firstly! JEWS. They, as enemies of God, like those of FoxNews, will refuse these type of FACTS on their hatred for Love and Justice. Their hatred for Jews, real Jews, like me. Understand: American baby formula has been contaminated with poisons, and FoxNews doesn't think it's important to their corporate responsibilities to kill ourselves further for profit. The Zionist will murder anyone just to steal your belief in God as Love. They HATE me for being wise and Just. Hate. For, why wouldn't America support my demands for open radio communications on the Coast to Coast radio network? Americans would rather murder Humanity before Justice succeeds beyond their illusions of grandeur through the mass murdering of ourselves for stolen gains. The banker does not cover our loans! Giving them trillions for free unquestioningly is dumber than rocks. Enough.

Fake Rocket Attack
http://xymphora.blogspot.com/2005/02/fake-rocket-attack.html

Remember however, the Zionist has no qualms about killing Innocent Jews too if it means Americans will get it more free welfare to murder ourselves. They openly STEAL Peoples

homes in that nation run as thieves don't
You know? Or as it is just open public
knowledge that the Zionist excepts that
911 was actually a good thing for them as
war criminals reaping the cash rewards for
continuing capital murders?

/ / Ehud Barak promised that the war would
continue ï¿½to the bitter end.ï¿½ \ \

That is you there Barak promises to end
bitterly as the innocent the demon targets
for ungodly murder. How could ANY REAL MAN
steal food from a Christian baby? How do they
do it?, as the inhuman. (Like bushite do in
Iraq, while on CNN in interview tell US, they
are there war criming for neocon traitors to
steal everything as "helping the Iraqi
children". They offer no clean water, no food,
just indiscriminate bombing campaigns of evil
incarnate. True fascist nazi enemies of true
freedom in America who advance censorship to
anyone like myself. Why? They lose. They are
not men but Satanic enemies of the King to
Jews, the Messiah. I Am. Thieves to the
scriptures of Hillel, and of Moses. Thieves
to the intent of every true religious person,
for God is everywhere. God is the Word, and
the Word is Holy. So, fuck you and die bushite
nazi traitors to American Justice, those of
them who refuse US open free words to resolve
their war criminal behaviors as is done in
godless Israel today against INNOCENT
Christians. Done before another innocent other
has our homes stolen, or is murdered by the
lawless grunting bushite dumfuk enemies of
Jesus Christ. I am King already, always have
been, always will be. Live with it. The Koran
is filled with great understandings on this
relationship. Christ is mentioned more than
Mohammad - and Mary can be understood as the
mother of all being before we are. a virgin.)

Look humans, you've
had your fun murdering yourselves, now the wise
people will compete for bettering ourselves by
understanding. Who the fuck are these illiterate
monsters at CTV national television? and how can
they willingly keep our soldiers in the dark dying
that way by simply smiling? Are they experts in
anything? are they respected researchers? writers?,

politicians?, civil rights lawyers? - do they even
respect ourselves enough to be warned of vaccines?
NO, instead they LIE with contempt for Humanity

Lawless Police to Defend Who Again?

They Call it Terrorism

"Israeli nazi enemies call bombing people,
like they do without apology, terrorism.
What can't you figure?"

CNN TODAY

/ / Stand down 'Christian' nation. It's
not your babies. Ethnic cleansing is not
a 'sin' as long as the 'chosen ones' of
Israel do it. \ \

Israel, the nazi enemies of God nation broke
the ceasefire on November 4th. Now, as demon
liars claim they want to honor a ceasefire
again to further steal ourselves from the
Love of Justice. Why do the godless Zionist do
this always as first degree murderers? Because
they can't win an open debate on their treasons
against God and Man. The private bankers DO
NOT cover our loans. Again, these SATANIC
ENEMIES OF GOD dropped seven million land
mines on Lebanon while target killing JEWS.
INNOCENT JEWS. Targeted. Northern Lebanon,
look it up. Israeli MURDERED Jews. Innocent
Jews as targeted for more stolen charity. I
again, beg you to support my call for war
crime trials against the bushmob, including
CNN demons who report a total contempt for
YOUR life dying. Your call loser.

ISRAEL: No civilian casualties in Gaza!
http://uk.youtube.com/watch?v=RlZd3vR6Kzk

Satanic enemies of God as anyone included.
Think: who buys these demon lies to steal
further from our innocent Humanity? Zionists
do at CBC and CNN, who will murder America
by openly lying to destroy freedom. Example:
CNN reports Georgian nazis who targeted
children schools, churches and threw grenades
into our homes to murder as minions for Satan
are called freedom fighters. Just like the
Third Infantry, the new lawless police officers
of California, who can't be charged with rape
for example, because ONLY Rumsfeld can okay

such prosecutions. Hey who cares for Iraqi Rights right?, for TV America's CNN with FoxNews and George Norry doesn't, for it's only American women and children now right nazi enemies? And WE ALL KNOW, cowardly America refuses to even raise their phones for these dying concerns. How can George Norry continue to live happily dying America for the neocons? How? they let them. Alex Jones thinks George Norry is just fantastic, so no, don't encourage the NWOers to demand free communications, because if we did, Alex Jones and the like, would factually look like the idiots he is. (better to die America than face this foolishness?) The banker doesn't cover our loans, we do Alex. So giving them trillions in American worker wages is a bank robbery in progress. Simple. NOT a diabolical ingenious plan, we, the simple folk can't figure without the Alex Jonesers geniuses of thought control developed by the CFR, builderberg, the Boners and NASA.

1900. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 03:57:47 UTC
From: vo1bbn@gmail.com
Message-ID: <2ef54be5-0408-4352-90da-bbeef392770b@f37g2000vbf.googlegroups.com>
Source record: 16674

On Mar 30, 4:39 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Cecil Moore wrote:
> > Seems to me the large air-core
> > coil occupies a greater number of degrees of antenna
> > than does the toroidal inductor.
>
> I've received a number of emails requesting that I
> explain what I meant by this statement. It is easiest
> understood by people who can solve the following
> problem.
>
> How can the impedance looking into the following
> physical 45 degree, dual-Z0 stub be purely resistive,
> i.e. electrically 90 degrees and resonant?
>
> ---22.5 deg 300 ohm twinlead---+---22.5 deg 50 ohm coax---open
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Exactly as my tests have shown me. Using a coil and toroid with given same inductance say 20uH to achieve the same resonance the top part of the vertical over the toroid was about 8" longer, then the top portion of the vertical over the coil, just as you stated, More electrical degrees in the coil than the toroid.
I was wondering if the self shielding properties of the toroid would have contributed to this conclusion, and because of these properties, the toroid not have any electrical degrees, so to speak, so when it come to the radiating element it would need to be slightly longer to see the electrical degrees for the wavelength or resonance frequency injected into it. thanks again for the info.

1901. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 11:33:32 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <go1Bl.25177$yr3.13375@nlpi068.nbdc.sbc.com>
Source record: 16675

vo1bbn@gmail.com wrote:
> I was wondering if the self shielding properties of the toroid would
> have contributed to this conclusion, and because of these properties,
> the toroid not have any electrical degrees, so to speak, so when it
> come to the radiating element it would need to be slightly longer to
> see the electrical degrees for the wavelength or resonance frequency
> injected into it. thanks again for the info.

I suspect that the VF of the toroidal loading coil is much
higher than the VF of an air-core loading coil, i.e. the
toroidal loading coil occupies fewer electrical degrees of
the antenna. It makes sense that if the toroidal loading
coil occupies fewer electrical degrees of the antenna that
those degrees must be furnished somewhere else. The toroidal
loading coil seems to be closer to the lumped circuit model
than is the large air-core loading coil which generally
requires analysis using distributed network techniques.

http://www.ttr.com/TELSIKS2001-MASTER-1.pdf

There are two things happening with a base loading coil.
The loading coil occupies a certain number of degrees,
e.g. ~36 degrees for a 75m bugcatcher coil. The stinger
occupies maybe ~11 degrees for a total of ~47 degrees.
The other ~43 degrees comes from the phase shift at the
impedance discontinuity between the coil and the stinger.

With a center loading coil, a few degrees are lost at
the impedance discontinuity between the base section and
the coil. That's why a larger coil is needed for a
center-loaded mobile antenna.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1902. Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 12:16:29 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <w02BI.22117$YU2.20731@nlpi066.nbdc.sbc.com>
Source record: 16676

http://science.nasa.gov/headlines/y2009/01apr_deepsolarminimum.htm
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1903. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 13:37:06 UTC
From: Bob Dixon <dixon.8@osu.edu>
Message-ID: <dixon.8-B1994D.09370502042009@charm.magnus.acs.ohio-state.edu>
Source record: 16677

I was referring to the tuned twinlead system shown in figure 6 of the
original reference http://www.bencher.com/pdfs/00361ZZV.pdf
How are the lengths determined (obviously not a quarter wavelength)?

Bob W8ERD

In article <p387t494j7lj5t4f39g3m3u2afh2jbfrnc@4ax.com>,
Richard Clark <kb7qhc@comcast.net> wrote:

> On Wed, 01 Apr 2009 11:28:06 -0400, Bob Dixon <dixon.8@osu.edu> wrote:
>
> >How does this work?
>
> Hi Bob,
>
> Pretty much in the fashion of regular radials.
>
> >Is there design information available anywhere so
> >one could build their own system for other bands?
>
> Start with the nominal quarterwave length. Put it in the expected
> environment. Measure SWR. Trim or lengthen as appropriate.
>
> >How does its performance compare with normal radials?
>
> Normal being? Compared to 120 quarterwave radials?
>
> >Bandwidth, efficiency etc.
>
> Oh! Bandwidth: probably wider.
>
> Efficiency: probably much less.
>
> Bandwidth and efficiency for ONE radial (or two, or three, or four...)
> in this circumstance is normally in an inverse relationship when close
> to the ground.
>
> 73's
> Richard Clark, KB7QHC

1904. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 13:59:26 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <geGdnW1IBZ4mWUnUnZ2dnUVZ8quWnZ2d@westnet.com.au>
Source record: 16678

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:w02Bl.22117$YU2.20731@nlpi066.nbdc.sbc.com...
> http://science.nasa.gov/headlines/y2009/01apr_deepsolarminimum.htm
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

It's still regarded as within the norm, but how much longer till it's not
normal?

A controversial and interesting paper on long term solar cycles can be found
at the below URL.

http://www.ann-geophys.net/18/399/2000/angeo-18-399-2000.pdf

Author: I. Charv&#65533;tova

Geophysical Institute AS CR, Bocni II, 141 31 Praha 4, Czech Republic

Cheers

Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

1905. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 17:58:05 UTC
From: Tim <Tim@home.net>
Message-ID: <027Bl.11342$jZ1.3223@flpi144.ffdc.sbc.com>
Source record: 16680

> The same thing (compactness) could have as easily be arrived at by
> using in dependant wires, all cut to quarter/halfwave and bundled
> together.

First, since I am new to this ng, let me say hi to all.

Now the good stuff. I have always wondered this, but
like a multi band dipole, the reactance would lead the power to the
radials that are reasonant, and make the unreasonant radials invisible?
Would they have to be spaced apart, or could they be 'bundled'
(but not touching)...
I ask because I was thinking of making a 20/15/10M ground plane out of
an old copy of Ham Radio Anthology from 2003. They only have one radial
for 20 and 15, two for ten. And I was wondering why not just
piggy-back reasonant wires for all the bands..You may have answered
my question.

Sorry to interupt, but thanks for the info!

Tim
WN8OAB

1906. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 18:30:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <psv9t4hujbr9nap9pqoj765p4sv6ur90fh@4ax.com>
Source record: 16679

On Thu, 02 Apr 2009 09:37:06 -0400, Bob Dixon <dixon.8@osu.edu> wrote:

>I was referring to the tuned twinlead system shown in figure 6 of the
>original reference http://www.bencher.com/pdfs/00361ZZV.pdf
>How are the lengths determined (obviously not a quarter wavelength)?

Hi Bob,

Obviously not? Of course it is for at least 40M (overall length); and
of course it is for at least 10M (to the first notch); and half a wave
for 15M and half a wave 20M. Half waves are two quarters....

Those dimensions are the intent of tuned radials. Tuned radials have
some integer relationship to a quarter wave. Some commercial designs
might offer radial reactance (non-quarterwave relationship) to balance
out the inverse reactance seen in the vertical, but I don't think we
see it here.

Proximity to earth will change all of this, however. Layout a longer,
overall length without cutting the notches and tune for the lowest
band. Use that last 3 foot section to do this (like making it 6 feet
long at first). I would then work on the first notch for 20M and cut
it out long too (the 3'10" section is redundant and thus expendable)
so you can shorten towards the base. Then I would work on the second
notch, but cut closer to the base (say, at 18' from the base) and trim
towards the end to tune in 15M.

The same thing (compactness) could have as easily be arrived at by
using in dependant wires, all cut to quarter/halfwave and bundled
together. There is nothing particularly remarkable about the twinlead
in its own right except for mechanical stability.

73's
Richard Clark, KB7QHC

1907. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 18:53:48 UTC
From: JB <nospam@goofball.net>
Message-ID: <0R7Bl.1196$6n.319@nwrddc01.gnilink.net>
Source record: 16681
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

lanews.com is a fake spam site

So how do you keep April fools jokes from being picked up by wackos that quote it as gospel and try to institute illegal measures in their own jurisdiction to drag people down by forcing them to defend themselves at great cost or default, like they tried to do in Lancaster.

Quit picking on ham radio.

Instead, lets tell the one where the leader decides a small but identifiable group is to blame for all the ills of the world and should be outlawed, forced to labor and finally exterminated. Oh wait! That really happened!

"News Features" <news@lanews.com> wrote in message
news:JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com...
> SILENCED HAMS MEAN SAFER COUNTY

1908. Active antennas -- 2 vs 4

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 19:10:44 UTC
From: Bill Ogden <billogden@optonline.net>
Message-ID: <49d50d39$0$22512$607ed4bc@cv.net>
Source record: 16682

The DX Engineering phasing controller, with two active antennas appears interesting. (My 80 meter reception, with a half-sloper on my tower, is not good -- and 160 meters is worse.) They also have the 4-square setup receiving setup.

Question: Does anyone have comments on the 4-square version versus the 2 antennas with a phasing controller? Pros and cons?

Bill
W2WO

1909. Re: KC8QJP

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 20:26:56 UTC
From: Roger & Suzanne Nair <r&snair@nohair.com>
Message-ID: <gr372mbvc1@news.mixmin.net>
Source record: 16684
Cross-posted to:
rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.swap,alt.ham-radio.vhf-uhf,rec.radio.shortwave

"Borked Pseudo Mailed" <nobody@pseudo.borked.net> wrote in message
news:786cfdc712d03aa3f5f7cae548a18bf4@pseudo.borked.net...
> "osd" <reccoz@rogers.ca> wrote:
>> im calling you right away!
>>
>> stupid cunt
>> "Borked Pseudo Mailed" <nobody@pseudo.borked.net> wrote in message
>> news:d886f350fad50e2d74f4ac46184fddff@pseudo.borked.net...
>> > HI, I AM CRISCO KATHY AND TAX SEASON IS ALMOST UPON US. I CAN GET YOU
>> > THE BEST
>> > RETURN. IT MIGHT BE A LITTLE BIT ILLEGAL.BUT WHAT THE HECK,THE
>> > GOVERMENT TAKES TO MUCH OF OUR MONEY. BE SURE AND BRING A BIG CAN OF
>> > CRISCO WITH YOU. I WORK BEST ON MY KNEES WHILE SOMEONE SLATHERS MY FAT
>> > RUMP WITH CRISCO.
>> > BRING A BIG CAN, I HAVE A VERY LARGE RUMP.
>> >
>> > CALL 419-698-2075 FOR MORE INFO AND ASK FOR CRISCO KATHY KC8QJP
>> >
>> >
> KC8QJP IS A HOG!
> http://wwwcsif.cs.ucdavis.edu/~loewen/fat-woman.jpg
>
>
>
She is a federal criminal.

1910. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 20:31:18 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gr33q9mfj1@news.service.uci.edu>
Source record: 16683

Cecil Moore wrote:
> Jim Kelley wrote:
>
>> Since a standing wave can be considered an amplitude vs phase plot
>> (where both phase and amplitude vary with position) ...
>
> For the standing wave function, I(x,t)=Io*cos(x)*cos(wt),
> the phase at any point x, for a particular (t), doesn't
> change phase. Set t=0 and vary x to see what happens.
> Only the amplitude changes with x. That's why standing
> wave current phase cannot be used to measure the delay
> through a loading coil.

The term x is the phase of the cosine function, Cecil. The phase of the standing wave function varies by 90 degrees along the length of a 1/4 wave resonant standing wave antenna.

ac6xg

1911. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 20:36:47 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xl9Bl.22537$c45.14572@nlpi065.nbdc.sbc.com>
Source record: 16685

Jim Kelley wrote:
> The term x is the phase of the cosine function, Cecil. The phase of the
> standing wave function varies by 90 degrees along the length of a 1/4
> wave resonant standing wave antenna.

I'm sorry, Jim, that is just not true. The standing-wave
function has a *constant phase* along the length of a 1/4WL
monopole for any fixed (t). Cos(x) is the *envelope amplitude*
function (not phase function) for any fixed (t).

What Gene Fuller said previously is true regarding the
cos(kz)*cos(wt) term in a standing wave:

Gene Fuller, W4SZ wrote:
> In a standing wave antenna problem, such as the one you describe,
> there is no remaining phase information. Any specific phase
> characteristics of the traveling waves died out when the startup
> transients died out.
>
> Phase is gone. Kaput. Vanished. Cannot be recovered. Never to be
> seen again.
>
> The only "phase" remaining is the cos (kz) term, which is really
> an amplitude description, not a phase.

One can ask EZNEC to display the phase of the total current.
When one does that, one will see that the phase is ~constant
for a 1/4WL thin wire monopole over mininec ground. The change
in amplitude is what allows us to calculate the actual delay
through the wire using an ARCCOS function.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1912. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 20:50:30 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE24FC5421Bnonenowhere@61.9.191.5>
Source record: 16686

Peter,

Your reference is interesting, their story is changing from
http://science.nasa.gov/headlines/y2008/11jul_solarcycleupdate.htm?
list174385 (fix the wrapped URL).

I have been plotting the percentage of days in a calendar month that were
spotless during this transition.

Certainly, March 2009 isn't encouraging.

The graphs are at http://www.vk1od.net/propagation/solar/spotless.htm .

I wouldn't hazard a guess at when sunspot numbers climb significantly,
though signs are that the transition has already occured, just enduring a
very long sunspot drought... from Canberra where it doesn't rain any more
either!

Owen

1913. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 21:08:26 UTC
From: k3vr <k3vr@ymail.com>
Message-ID: <f81fdfe6-7a0e-4e51-9a52-2085c7259031@v19g2000yqn.googlegroups.com>
Source record: 16687
Cross-posted to: rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.swap,alt.ham-radio.vhf-uhf

On Apr 2, 4:26 pm, "Roger & Suzanne Nair" <r&sn...@nohair.com> wrote:
>
follow up games are lame

1914. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 21:27:26 UTC
From: News Features <news_features@newsfeatures.net>
Message-ID: <%4aBl.23594$Ws1.21625@nlpi064.nbdc.sbc.com>
Source record: 16688

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BE24FC5421Bnonenowhere@61.9.191.5...
> Peter,
>
> Your reference is interesting, their story is changing from
> http://science.nasa.gov/headlines/y2008/11jul_solarcycleupdate.htm?
> list174385 (fix the wrapped URL).
>
> I have been plotting the percentage of days in a calendar month that were
> spotless during this transition.
>
> Certainly, March 2009 isn't encouraging.
>
> The graphs are at http://www.vk1od.net/propagation/solar/spotless.htm .
>
> I wouldn't hazard a guess at when sunspot numbers climb significantly,
> though signs are that the transition has already occured, just enduring a
> very long sunspot drought... from Canberra where it doesn't rain any more
> either!
>
> Owen

1915. Re: Active antennas -- 2 vs 4

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 21:36:01 UTC
From: Al Lorona <al_lorona@agilent.com>
Message-ID: <1daBl.23597$Ws1.4783@nlpi064.nbdc.sbc.com>
Source record: 16689

"Bill Ogden" <billogden@optonline.net> wrote in message
news:49d50d39$0$22512$607ed4bc@cv.net...
> The DX Engineering phasing controller, with two active antennas appears
> interesting. (My 80 meter reception, with a half-sloper on my tower, is
> not good -- and 160 meters is worse.) They also have the 4-square setup
> receiving setup.
>
> Question: Does anyone have comments on the 4-square version versus the 2
> antennas with a phasing controller? Pros and cons?
>
> Bill
> W2WO
>

1916. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 21:47:02 UTC
From: Al Lorona <al_lorona@agilent.com>
Message-ID: <nnaBl.23600$Ws1.19701@nlpi064.nbdc.sbc.com>
Source record: 16690

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BE24FC5421Bnonenowhere@61.9.191.5...
> I have been plotting the percentage of days in a calendar month that were
> spotless during this transition.
>
> Certainly, March 2009 isn't encouraging.
>
> The graphs are at http://www.vk1od.net/propagation/solar/spotless.htm .
>

Very interesting data, Owen. This is a new way to look at the transition but to my eye a downward trend hasn't emerged yet and that certainly is bad news for 2009.

Another idea I had recently, but haven't found any records of this method of tracking solar cycles anywhere on the net... perhaps you might know. This idea was prompted by the observation that so far in 2009, if I'm not mistaken, the number of Cycle 23 sunspots outnumbers the Cycle 24 sunspots, so the situation is even more dire when this is considered. So the questions in my mind are:

1/ Don't the Cycle 23 spots have to vanish completely before we can even begin to say that we have entered the new cycle?

2/ If not, then how far into the new cycle are old spots allowed to occur without casting doubt on the fact that the new cycle has begun yet?

I looked all over for a plot of old spots superimposed on a plot of new spots, so that I could get an idea of how long the overlap period typically is. But this is the data that I couldn't find anywhere. Any ideas?

I don't think we're past minimum yet. We might be in it right now, and possibly for several more months. I say this despite the fact that there have already been a number of Cycle 24 spots. This minimum is looking like a double-minimum, ironically the inverse of the Cycle 23 double-maximum.

Al W6LX

1917. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 21:53:32 UTC
From: vo1bbn@gmail.com
Message-ID: <a8ffa0e6-7261-446c-8c82-53f0d3bd23fb@a7g2000yqk.googlegroups.com>
Source record: 16691

On Apr 2, 8:33 am, Cecil Moore <nos...@w5dxp.com> wrote:
> vo1...@gmail.com wrote:
> > I was wondering if the self shielding properties of the toroid would
> > have contributed to this conclusion, and because of these properties,
> > the toroid not have any electrical degrees, so to speak, so when it
> > come to the radiating element it would need to be slightly longer to
> > see the electrical degrees for the wavelength or resonance frequency
> > injected into it. thanks again for the info.
>
> I suspect that the VF of the toroidal loading coil is much
> higher than the VF of an air-core loading coil, i.e. the
> toroidal loading coil occupies fewer electrical degrees of
> the antenna. It makes sense that if the toroidal loading
> coil occupies fewer electrical degrees of the antenna that
> those degrees must be furnished somewhere else. The toroidal
> loading coil seems to be closer to the lumped circuit model
> than is the large air-core loading coil which generally
> requires analysis using distributed network techniques.
>
> http://www.ttr.com/TELSIKS2001-MASTER-1.pdf
>
> There are two things happening with a base loading coil.
> The loading coil occupies a certain number of degrees,
> e.g. ~36 degrees for a 75m bugcatcher coil. The stinger
> occupies maybe ~11 degrees for a total of ~47 degrees.
> The other ~43 degrees comes from the phase shift at the
> impedance discontinuity between the coil and the stinger.
>
> With a center loading coil, a few degrees are lost at
> the impedance discontinuity between the base section and
> the coil. That's why a larger coil is needed for a
> center-loaded mobile antenna.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I am a little confused, you say about the coil and the stinger
occupying a portion of the total 90 degrees, (I can follow this not a
problem), however I thought the purpose of the coil was to add
inductive reactance, due to the shortened length of the radiator, less
than 1/4 wave, therefore having a capacitive reactance overhaul. Let
the shortened vertical be 34-j234 ohms. My understanding is that
depending on on what the reactance is at some freq, I need to offset
this negative reactance with an equal positive reactance. I wasn't
looking at from a degrees point for view. Or is it just 6 of one, half

dozen of the other, both be equal just expressed differently, I like the degrees point of view for a couple of other arrays I am experimenting with. (long wires) I think it will simplify things a whole lot. thanks again for the info and the links, very valuable info. 73 brett

1918. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 22:00:59 UTC
From: Scott <acepilotREMOVE@bloomer.net>
Message-ID: <VMOdndzSkf4BqEjUnZ2dnUVZ_trinZ2d@bright.net>
Source record: 16692
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

```
News Features wrote:
> SILENCED HAMS MEAN SAFER COUNTY
>
>
>
>
>
> -from the Los Angeles Press-Telegram (4/1/2009)
>
>
>
>
>
> San Luis Obispo county supervisors took drastic and unprecedented action
> yesterday by passing an ordinance that would prohibit amateur radio
> operators, known as "hams", from operating their transmitting stations. The
> measure was put in place to eliminate what officials said were health risks
> associated with transmitters located close to children. A legal struggle is
> expected.
>
>
>
>
>
>
Good thing this came out on APRIL FIRST...
```

1919. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 22:14:59 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE25E1845AE9nonenowhere@61.9.191.5>
Source record: 16693

"Al Lorona" <al_lorona@agilent.com> wrote in
news:nnaBl.23600$Ws1.19701@nlpi064.nbdc.sbc.com:

>
...
> Another idea I had recently, but haven't found any records of this
> method of tracking solar cycles anywhere on the net... perhaps you
> might know. This idea was prompted by the observation that so far in
> 2009, if I'm not mistaken, the number of Cycle 23 sunspots outnumbers
> the Cycle 24 sunspots, so the situation is even more dire when this is
> considered. So the questions in my mind are:
>
> 1/ Don't the Cycle 23 spots have to vanish completely before we can
> even begin to say that we have entered the new cycle?

There are different criteria proposed by different people for the instant
that divides two cycles.

>
> 2/ If not, then how far into the new cycle are old spots allowed to
> occur without casting doubt on the fact that the new cycle has begun
> yet?

One criteria is the point in time (month?) when there are equal new
sunspots and old sunspots.

>
> I looked all over for a plot of old spots superimposed on a plot of
> new spots, so that I could get an idea of how long the overlap period
> typically is. But this is the data that I couldn't find anywhere. Any
> ideas?

The so-called butterfly diagram is of interest, see
http://sidc.oma.be/images/papi22c.png .

High latitude unspots are usually 'new cycle' sunspots.

>
> I don't think we're past minimum yet. We might be in it right now, and
> possibly for several more months. I say this despite the fact that
> there have already been a number of Cycle 24 spots. This minimum is
> looking like a double-minimum, ironically the inverse of the Cycle 23
> double-maximum.

I think on many criteria, we are in cycle 24, fwiw.

>
> Al W6LX

73
Owen
>
>
>
>

1920. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 22:17:03 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xPaBl.11277$%54.613@nlpi070.nbdc.sbc.com>
Source record: 16694

vo1bbn@gmail.com wrote:
> My understanding is that
> depending on on what the reactance is at some freq, I need to offset
> this negative reactance with an equal positive reactance. I wasn't
> looking at from a degrees point for view.

It depends upon which math model is being used and
whether the math model is valid under the existing
conditions. We can neutralize capacitive reactance
with a lumped inductance or with a stub or with a
helical coil. The results are approximately the
same but there are differences.

If the current amplitude changes significantly
between the bottom and top of the loading coil,
the lumped circuit model is not valid because
the coil is an appreciable percentage of a
wavelength more akin to a transmission line
than a lumped circuit.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1921. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 22:24:17 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <kWaBI.11278$%54.3128@nlpi070.nbdc.sbc.com>
Source record: 16695

Owen Duffy wrote:
> There are different criteria proposed by different people for the instant
> that divides two cycles.

Which presupposes that an instant actually divides
two cycles. :-) My 130/85 blood pressure used to
be normal for my age. Now that exact same blood
pressure is pre-hypertensive even though I'm 20
years older. I've concluded that human concepts
create reality, not vice-versa. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1922. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 23:20:50 UTC
From: Al Lorona <al_lorona@agilent.com>
Message-ID: <iLbBl.3490$im1.99@nlpi061.nbdc.sbc.com>
Source record: 16696

"Cecil Moore" <nospam@w5dxp.com> wrote:
> I've concluded that human concepts
> create reality, not vice-versa. :-)
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I know what you mean, Cecil. It used to be that marriage was between 1 man and 1 woman...

Oops, that was off topic. Back to the subject at hand.

Owen, those butterfly patterns are neat. It's hard to tell, but it kind of looks like old and new sunspots can overlap each other for maybe a year or more! Wow. I didn't realize that. So maybe there still is hope. But I sure wish Cycle 23 spots would go away.

Al W6LX

1923. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-02 23:42:32 UTC
From: vo1bbn@gmail.com
Message-ID: <77ae0106-866d-4dc2-8d87-5bb34ea9d2c6@f19g2000yqh.googlegroups.com>
Source record: 16697

On Apr 2, 7:17 pm, Cecil Moore <nos...@w5dxp.com> wrote:

> It depends upon which math model is being used and
> whether the math model is valid under the existing
> conditions. We can neutralize capacitive reactance
> with a lumped inductance or with a stub or with a
> helical coil. The results are approximately the
> same but there are differences.
>
> If the current amplitude changes significantly
> between the bottom and top of the loading coil,
> the lumped circuit model is not valid because
> the coil is an appreciable percentage of a
> wavelength more akin to a transmission line
> than a lumped circuit.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Now it is clearer to me. I understand why there is a difference using lumped circuit analysis as opposed to the the actual coil or stub analysis. You have provided much valuable info on this subject. Thanks again. I will load some math program on my pc any do some of the analzsis of my design and compare it to what I have measured now with the ones I have built

The reason this came about to me was to use some very short but extremely strong 1.5" insulators that I have.In order to get the required inductance with the length of insulators that I have the losses in the coil would be large, that is why I chose the toroid.

Did you ever try to model a resonator where the coil required is actually longer than the insulator, so that the vertical part of the resonator is actually inside the coil , would it somewhat have a larger inductance then the expected air wound value, similar to a coil with a ferite inside it (tuning slug) or would the radiator not even see the amount of the coil that it covered therefore have a lower inductance. I was thinking, instead of spreading the turns on the coil to adjust amount of inductance simply move the vertical element in and out of the coil to adjust it. There discussions before were for a center loading coil which will be constant, but this last part of discussion I would like to try for base loaded coil and make it variable but not tap it conventionally . Hope I described well enough for you see what I have in mind, Again thanks for the info.73 brett

1924. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 01:02:49 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <p4nat4pg5rgadpkd6tb0d21mmq02999ju2@4ax.com>
Source record: 16698

On Thu, 02 Apr 2009 13:58:05 -0400, Tim <Tim@home.net> wrote:

>> The same thing (compactness) could have as easily be arrived at by
>> using in dependant wires, all cut to quarter/halfwave and bundled
>> together.
>
>First, since I am new to this ng, let me say hi to all.
>
>Now the good stuff. I have always wondered this, but
>like a multi band dipole, the reactance would lead the power to the
>radials that are reasonant, and make the unreasonant radials invisible?
>Would they have to be spaced apart, or could they be 'bundled'
>(but not touching)...
>I ask because I was thinking of making a 20/15/10M ground plane out of
>an old copy of Ham Radio Anthology from 2003. They only have one radial
>for 20 and 15, two for ten. And I was wondering why not just
>piggy-back reasonant wires for all the bands..You may have answered
>my question.
>
>Sorry to interupt, but thanks for the info!
>
>Tim
>WN8OAB

Hi Tim,

Welcome to the free-for-all called newsgroups.

Wires that are adjacent are invisible in one sense, and fully visible
in another, and partially visible on the third hand.

Resonance is not, in an of itself, a condition that denotes
visibility, or even radiation. Resonance (or the lack of resonance)
is merely a characteristic - one of many.

Resonance in an antenna generally means the lack of reactance.
Reactance brings us back to adjacent wires. If a wire is resonant,
and another wire is brought into proximity, that second wire will add
some form of reactance and shift the resonant characteristic of the
first wire. Hence, if that second wire lacks mechanical integrity, it
will add/subtract reactance as the wind blows - not a pretty prospect.
This is benefit that is brought to the Butternut by using twinlead. I
would point out that this benefit would be quickly lost if they need
two twinleads to support more bands.

The Butternut radial design is simply a variation in the fan dipole where several wires are connected at one point, but each wire resonates in a different band. When constructing a fan dipole, the general advice is to maintain some distance between the wires to reduce interaction (the addition/subtraction of reactance to neighboring wires). This separation is not herculean, six inches to a foot is often quoted, and reports tend to emphasize the distant ends being that far apart, with the ends at the common point being "fanned out" to them (hence the term fan dipole).

The practicality of construction is found in the separation of the wire. The twinlead construction is going to be the most difficult (but not impossible, obviously), whereas wire that is radically separated will have minimal interaction (aka invisible).

73's
Richard Clark, KB7QHC

1925. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 01:34:47 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <a6oat4drk4pm94r9pfopt302tva2gvri81@4ax.com>
Source record: 16699

On Thu, 2 Apr 2009 16:42:32 -0700 (PDT), vo1bbn@gmail.com wrote:

>Did you ever try to model a resonator where the coil required is
>actually longer than the insulator, so that the vertical part of the
>resonator is actually inside the coil

Hi Brett,

After following Cecil's pet theory, and your statement of finding it useful, your question above becomes a remarkably perplexing application of that knowledge.

The theory should have answered your question before hand. The typical shorthand explanation for coils' length equivalency should have too. The fact of the matter is that for a given height radiator, there are probably an infinite variety of values for inductance along the length where the radiator is broken for that coil's insertion. One inductance value (however it is wound) is not equivalent everywhere - hence the proposition of a coil having an equivalent length is rather preposterous.

Most loaded vertical design proceeds along very few lines. The first consideration is coil placement which is largely dominated with one consideration: radiation resistance. The optimal point (for an optimal size of the coil) is somewhere between 40% and 60% the way up (adding a top hat lends to the variability). Sub-optimal designs abound and are freely offered everywhere without explanation (but long on unsupported claims).

Knowing the insertion point, the second consideration is overall height in relation to wavelength. If the vertical is a loaded one, we here in the group can well anticipate that it is going to be a very short one seeking "special sauce" enhancement. Height and wavelength will dominate the coil inductance at the given insertion point.

Knowing the insertion point and the height/wavelength, the coil's inductance is fairly well defined. The third consideration is keeping its loss low. So far I haven't seen that pursued to its logical conclusion to instead see discussion wander in the poppy fields of electrical length (that was solved with inductance). Loss drives you to make the inductor large, with large separations in adjacent windings. Tightly wound coils, or toroids in the basement band might be useful at night for an aviation beacon light.

Worry about filling the coil's axis with the radiator is focusing on the wrong problem, remove the excess, or fold it into the turns of the coil. This may alter the inductance slightly, but that can be taken

care of with trimming at the top - trivial stuff. Stacked tubing makes this less than trivial. You go into this expecting that kind of flexibility because antennas are not designed straight from paper to elevated tube the first time.

73's
Richard Clark, KB7QHC

1926. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 04:36:10 UTC
From: Tim <Tim@home.net>
Message-ID: <GigBI.14921$8_3.7394@flpi147.ffdc.sbc.com>
Source record: 16700

> The Butternut radial design is simply a variation in the fan dipole
> where several wires are connected at one point, but each wire
> resonates in a different band. When constructing a fan dipole, the
> general advice is to maintain some distance between the wires to
> reduce interaction (the addition/subtraction of reactance to
> neighboring wires). This separation is not herculean, six inches to a
> foot is often quoted, and reports tend to emphasize the distant ends
> being that far apart, with the ends at the common point being "fanned
> out" to them (hence the term fan dipole).

Ok, looking at fig. 6 of the pdf, 4 bands,2 wires. I assume that the
long top wire is somewhat resonate on 40 and 15, with the clipped wire
being for 20 and 10. That means one wire is both 1/4 and 1/2 wave.
I should have looked better at that because I am picturing a 1/4 wave
vertical with a half wave radial...Or with rf, wouldn't that matter?

> The practicality of construction is found in the separation of the
> wire. The twinlead construction is going to be the most difficult
> (but not impossible, obviously), whereas wire that is radically
> separated will have minimal interaction (aka invisible).

So then on my triband vertical idea, I would be better off staggering
radials around in a fan shape, say one every hour of rotation, (3 bands,
4 radials) and have four resonant radials connected by some insulating
material for mechanical stability. Harder to make but easier to tune.
Going to look like a multi band vhf antenna on steroids, but as long as
it works......

I am glad I came upon this ng. I like learning about antennas, it's
about the only area left that every ham can tinker with anymore.

73,
Tim - WN8OAB
dit dit

1927. American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 04:45:18 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4cc738b4-c702-4ec1-8a01-b060a1efe9d0@q9g2000yqc.googlegroups.com>
Source record: 16551

Many on this newsgroup are aware of my views on radiation which I then took to the QRZ antenna page because of the fraustration created by lack of knowledge of equilibrium by the average american.
I have now run into another interpretation by americans which differ from the european aspect and that is Newtons third law with respect to reaction . Definitions on the net view this law as an equal and diametrically opposite force where Newton never used the word "diametrically". English law is based on the intention provided by the words of the law such that it becomes unchanged thru time. American law does not define "intention" thus the law can and does change over time creating appeals against the intent of words.
One definition of Newton's law on the net shows two skaters pushing against each other as an illustration of the law. But Newton's "intent" was in the olde english where "opposite" was viewed in a different way.
If you view a helicopter the front rotor is in a horizontal plane and rotating clockwise thus per Newton the resulting action is a rotator at the rear that is rotating in a "vertical " plane and rotating counter clockwise to maintain equilibrium. Another example is a caramel bar that is placed under tension which produces a force at right angles that narrows the cross section and the sample fails in shear at 45 degrees (vector resultant of the two forces)
I bring this up because of what I have stated earlier about radiation on this newsgroup, where the applied force is electrical on a radiator and per Newton the reaction is at right angle to that force which is called the displacement current (capacitive magnetic field). No wonder Einstein gave up on the pursuit of radiation because as a german had no understanding of olde english and thus was looking for a equal and diametrically opposite force in his search for the "weak force." He was correct in his prediction of it's presence with respect to radiation but, unfortunately, was looking in the wrong place and thus relativity was born!
Regards
Art KB9MZ....XG (uk)

1928. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 06:59:01 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5vbbt4th8mtmakvmpa10g5r07tohj1t316@4ax.com>
Source record: 16552

On Fri, 03 Apr 2009 00:36:10 -0400, Tim <Tim@home.net> wrote:

>Ok, looking at fig. 6 of the pdf, 4 bands,2 wires. I assume that the
>long top wire is somewhat resonate on 40 and 15, with the clipped wire
>being for 20 and 10. That means one wire is both 1/4 and 1/2 wave.

Hi Tim,

I already offered my best guess on that. Conversion of feet and
inches to meters gives the story.

>I should have looked better at that because I am picturing a 1/4 wave
>vertical with a half wave radial...Or with rf, wouldn't that matter?

It is only half the story. What the vertical element offers is the
other half. The natural presumption is that it is a quarterwave in
its own right, but with HF Multibanders, that can be a presumption too
far. As they are generally loaded for the lowest band, tuning is
difficult, narrow, and performance seems to suffer there (from my own
experience with a GAP and other's reports of theirs).

>So then on my triband vertical idea, I would be better off staggering
>radials around in a fan shape, say one every hour of rotation, (3 bands,
>4 radials) and have four resonant radials connected by some insulating
>material for mechanical stability. Harder to make but easier to tune.
>Going to look like a multi band vhf antenna on steroids, but as long as
>it works......

It probably won't be as easy as that, but it won't be as hard as
anything any more cute. Even then, the shortcuts often work if you
observe all the "gotchas," which usually means lifting the contraption
into the air 10 feet or so.

73's
Richard Clark, KB7QHC

1929. NEC model of an 80/40 dipole using bootstrap coax traps

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 07:03:22 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE2B7AD962CBnonenowhere@61.9.191.5>
Source record: 16553

I have constructed an NEC model of an 80/40 dipole using bootstrap coax traps. I have generated a helix of GW elements for the RG58C/U coax coil, and use NT cards to model the coax interior.

Plain conductors are loaded with copper conductivity.

I am grappling with approprate conductivity for the outer surface of the coax coil, thinking that it must be greater than copper because of proximity effects and braid effects. I have initially tried loading those segments with conductivity of one tenth of copper... but I don't expect that will make the RF resistance tenfold.

With those numbers, the loss in the interior of the coax is more than half the total loss.

Has anyone experience or thoughts on an appropriate way to load the conductor representing the outer surface of the coax coil forming the trap?

The model is below for anyone wanting to play with it. NOTE: the NT cards are appropriate only at 7.05MHz. Some wrapped lines will need fixing.

Owen

```
CM 80/40m trapped dipole using coax traps
CM Alternative to NT cards:
CM TL 24 1 101 1 50 2.4 0 0 0 0
CM TL 14 1 103 1 50 2.4 0 0 0 0
CE
GH 1 80 0.005 0.05 0.0275 0.0275 0.0275 0.0275
0.00165
GW 2 1 0.0275 0 0 0 0 0 0.00165
GW 3 1 0.0275 0 0.05 0 0 0.05 0.00165
GW 4 1 0 0 0 0 0 0.05 0.00165
GM 10 0 0 90 0 8 0 10 1
GM 10 1 0 180 0 0 0 20 11
GW 101 20 -8.05 0 10 -14.5 0 10 0.001
GW 102 31 -8 0 10 8 0 10 0.001
GW 103 20 8.05 0 10 14.5 0 10 0.001
GE -1
LD 5 0 0 0 58000000
LD 5 0 1 80 6444444.4
LD 5 0 84 163 6444444.4
GN 2 0 0 0 13 0.005
EK
EX 0 102 16 1 0
```

```
NT 24 1 101 1 1.992e-3 -5.340e-2 -1.983e-3 5.701e-
2 1.992e-3 -5.340e-2
NT 14 1 103 1 1.992e-3 -5.340e-2 -1.983e-3 5.701e-
2 1.992e-3 -5.340e-2
FR 0 0 0 0 7.05 0
EN
```

1930. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 11:22:00 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <sjmBl.23695$Ws1.11132@nlpi064.nbdc.sbc.com>
Source record: 16554

vo1bbn@gmail.com wrote:
> Did you ever try to model a resonator where the coil required is
> actually longer than the insulator, so that the vertical part of the
> resonator is actually inside the coil , ...

Never modeled it but have seen its effects during
75m mobile shootouts. One fellow had a hamstick
with the stinger bottom extending down into the
hamstick loading coil. It was a very lossy
condition which improved when he hack-sawed the
excess stinger off.

Do you have EZNEC? If so, I can modify a helical
loading coil to extend the stinger into the middle
of the coil and send the file to you.

Conductors within the loading coil field lower
the effective coil Q. However, I have had good
luck with a 1.25" fiberglass pipe running through
the center of the coil providing mechanical
support. Perhaps you could consider swapping your
insulator for a piece of fiberglass pipe or rod.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1931. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 12:34:20 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <fnnBl.17356$as4.13285@nlpi069.nbdc.sbc.com>
Source record: 16555

Richard Clark wrote:
> One
> inductance value (however it is wound) is not equivalent everywhere -
> hence the proposition of a coil having an equivalent length is rather
> preposterous.

Nobody said one inductance value is equivalent everywhere.
In fact, just the opposite is true. The equivalent length
for different coils with the same inductance depends upon
their physical configurations.

For instance, w8ji's loading coil (100t, 10tpi, 2"dia)
calculates to have a VF of 0.0328 while my 75m Texas
Bugcatcher coil with approximately the same inductance
calculates to have a VF of 0.0198, a 66% difference
proving your above premise to be false.

****
THERE IS NO REQUIREMENT THAT TWO COILS WITH THE SAME
INDUCTANCE OCCUPY THE SAME NUMBER OF DEGREES OF ANTENNA.
****

To understand the details, just compare the following
1/4WL resonant stubs:

---25.3 deg Z0=600 ohm---+---10 deg Z0=50 ohm---open

---70.6 deg Z0=100 ohm---+---10 deg Z0=50 ohm---open

Both stubs are electrically 1/4WL = 90 degrees long.

How can 35.3 physical degrees of stub perform a 90 degree
stub function? Hint: There is a 54.7 degree phase shift
at the '+' junction.

Why does the second example require 80.6 physical degrees
of feedline? Hint: There is only a 9.4 degree phase
shift at the '+' junction.

Why does it take 70.6 degrees of Z0=100 ohm feedline
to perform exactly the same function as 25.3 degrees
of Z0=600 ohm feedline?

Both stub segments, Z0=600 and Z0=100, are providing
the same inductance at the '+' junction point, yet
one is 2.8 times longer than the other.

Is "the proposition of a piece of transmission line
having an equivalent length rather preposterous"?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1932. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 12:43:22 UTC
From: stan <tsanford@nf.sympatico.ca>
Message-ID: <cc0486b7-fe6a-4950-97cd-6945d1c2efae@n33g2000vba.googlegroups.com>
Source record: 16556
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

On Apr 2, 7:00 pm, Scott <acepilotREM...@bloomer.net> wrote:
> News Features wrote:
> > SILENCED HAMS MEAN SAFER COUNTY
>
> > -from the Los Angeles Press-Telegram (4/1/2009)
>
> > San Luis Obispo county supervisors took drastic and unprecedented action
> > yesterday by passing an ordinance that would prohibit amateur radio
> > operators, known as "hams", from operating their transmitting stations. The
> > measure was put in place to eliminate what officials said were health risks
> > associated with transmitters located close to children. A legal struggle is
> > expected.
>
> Good thing this came out on APRIL FIRST...- Hide quoted text -
>
> - Show quoted text -

Reminds one of an outburst of complaints about interferenec to to TV
from one UK radio amateur station back in the 1950s.
While Britain had some TV back in 1937 the 1950s saw a fast growing
increase in domestic TV set ownership; quickly nicknamed 'The Telly'.
The interference complaints bubble burst rather rapidly when it turned
out the amateur in question, ad all his family, had been away from
home for the entire period of the complaints!

1933. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 13:28:22 UTC
From: Tim <Tim@home.net>
Message-ID: <fboBl.22178$YU2.12417@nlpi066.nbdc.sbc.com>
Source record: 16557

> 73's
> Richard Clark, KB7QHC

Thanks!

Tim - WN8OAB

1934. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 13:46:02 UTC
From: Tim Shoppa <shoppa@trailing-edge.com>
Message-ID: <ced075d9-f400-4ea8-a755-fbbc41ad8245@l1g2000yqk.googlegroups.com>
Source record: 16558

On Apr 2, 8:16 am, Cecil Moore <nos...@w5dxp.com> wrote:
> http://science.nasa.gov/headlines/y2009/01apr_deepsolarminimum.htm
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I've been surprised at some of the openings on 15M to Europe and Pacific the past few years, in the quietest part of a quiet cycle. And the regularity of night-time 20M openings to Northern Europe/Russia and even occasionally New Zealand/Australia too.

I mean, it's nothing at all compared to say 1979 when I was a new ham 10M was open around the world at almost every hour of the day. But it still happens.

Certainly I've been enjoying 40M/80M/160M the past few years.

One thing that I don't see charted so clearly... is that in 2003/2004/2005/2006 I remember several solar storms that pretty much wiped out all the HF bands (high and low, well 80M and 160M were not so badly affected) for a few days at a time. I don't remember this happening at all in 2008/2009.

Tim N3QE

1935. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 14:34:41 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gr56q1$bk5g$1@tr22n12.aset.psu.edu>
Source record: 16559

Cecil Moore wrote:
> Owen Duffy wrote:
>> There are different criteria proposed by different people for the
>> instant that divides two cycles.
>
> Which presupposes that an instant actually divides
> two cycles. :-) My 130/85 blood pressure used to
> be normal for my age. Now that exact same blood
> pressure is pre-hypertensive even though I'm 20
> years older. I've concluded that human concepts
> create reality, not vice-versa. :-)

And they have just the medicine that will help you lower that
"potential" high blood pressure.

Dosing guidelines are keep taking it until you get dizzy and fall down
when you stand up.

The good news is we'll all live 15 years longer. The bad news is it will
be in a Nursing home, with Alzheimer's.

It's a math thing.

8^)

- 73 de Mike N3LI -

1936. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 14:51:45 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gr57q1$s42m$1@tr22n12.aset.psu.edu>
Source record: 16560

Cecil Moore wrote:
> vo1bbn@gmail.com wrote:
>> Did you ever try to model a resonator where the coil required is
>> actually longer than the insulator, so that the vertical part of the
>> resonator is actually inside the coil , ...
>
> Never modeled it but have seen its effects during
> 75m mobile shootouts. One fellow had a hamstick
> with the stinger bottom extending down into the
> hamstick loading coil. It was a very lossy
> condition which improved when he hack-sawed the
> excess stinger off.

some times a hack saw *can* be a fine tuning tool.

> Do you have EZNEC? If so, I can modify a helical
> loading coil to extend the stinger into the middle
> of the coil and send the file to you.
>
> Conductors within the loading coil field lower
> the effective coil Q. However, I have had good
> luck with a 1.25" fiberglass pipe running through
> the center of the coil providing mechanical
> support. Perhaps you could consider swapping your
> insulator for a piece of fiberglass pipe or rod.

Ahh, I had the idea of doing such a thing (add vertical travel) for my bugcatcher to fine tune swr if it needs tweaked a little. But it looks like I'll be hopping outside the car a lot after all.

For 75/80 meters, I have like 4 separate taps.

- 73 de Mike N3LI -

1937. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 15:52:48 UTC
From: Bob Miller <NOSPAM@neosoft.com>
Message-ID: <62cct4546qo8rm3oekhqmmua1oiqjghal1@4ax.com>
Source record: 16561

On Thu, 02 Apr 2009 17:02:49 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Thu, 02 Apr 2009 13:58:05 -0400, Tim <Tim@home.net> wrote:
>
>>> The same thing (compactness) could have as easily be arrived at by
>>> using in dependant wires, all cut to quarter/halfwave and bundled
>>> together.
>>
>>First, since I am new to this ng, let me say hi to all.
>>
>>Now the good stuff. I have always wondered this, but
>>like a multi band dipole, the reactance would lead the power to the
>>radials that are reasonant, and make the unreasonant radials invisible?
>>Would they have to be spaced apart, or could they be 'bundled'
>>(but not touching)...
>>I ask because I was thinking of making a 20/15/10M ground plane out of
>>an old copy of Ham Radio Anthology from 2003. They only have one radial
>>for 20 and 15, two for ten. And I was wondering why not just
>>piggy-back reasonant wires for all the bands..You may have answered
>>my question.
>>
>>Sorry to interupt, but thanks for the info!
>>
>>Tim
>>WN8OAB
>
>Hi Tim,
>
>Welcome to the free-for-all called newsgroups.
>
>Wires that are adjacent are invisible in one sense, and fully visible
>in another, and partially visible on the third hand.
>
>Resonance is not, in an of itself, a condition that denotes
>visibility, or even radiation. Resonance (or the lack of resonance)
>is merely a characteristic - one of many.
>
>Resonance in an antenna generally means the lack of reactance.
>Reactance brings us back to adjacent wires. If a wire is resonant,
>and another wire is brought into proximity, that second wire will add
>some form of reactance and shift the resonant characteristic of the
>first wire. Hence, if that second wire lacks mechanical integrity, it
>will add/subtract reactance as the wind blows - not a pretty prospect.

>This is benefit that is brought to the Butternut by using twinlead. I
>would point out that this benefit would be quickly lost if they need
>two twinleads to support more bands.
>
>The Butternut radial design is simply a variation in the fan dipole
>where several wires are connected at one point, but each wire
>resonates in a different band.

The Butternut twinlead appears to be connected at each end, forming a
single wire folded back on itself. Is that the same as a fan dipole?

bob
k5qwg

> When constructing a fan dipole, the
>general advice is to maintain some distance between the wires to
>reduce interaction (the addition/subtraction of reactance to
>neighboring wires). This separation is not herculean, six inches to a
>foot is often quoted, and reports tend to emphasize the distant ends
>being that far apart, with the ends at the common point being "fanned
>out" to them (hence the term fan dipole).
>
>The practicality of construction is found in the separation of the
>wire. The twinlead construction is going to be the most difficult
>(but not impossible, obviously), whereas wire that is radically
>separated will have minimal interaction (aka invisible).
>
>73's
>Richard Clark, KB7QHC

1938. How is field strength specified?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 16:20:30 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <jHqBl.116719$9j5.23113@en-nntp-01.dc1.easynews.com>
Source record: 16562

Quick question... when someone tells you that their receiver provides 12dB SINAD (or whatever) with an incident field strength of, say, 20uV/m, is 20uV/m an RMS value or magnitude? Or isn't this standardized enough that one should assume?

From some Googling RMS appears to be the standard, but I wanted to ask some folks who really know...

(Back in school, in EM classes it was always magnitudes...)

Thanks,
---Joel

1939. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 17:46:02 UTC
From: vo1bbn@gmail.com
Message-ID: <efb99a50-c523-44f2-a2fa-8c0aacef13ff@z19g2000vbz.googlegroups.com>
Source record: 16565

On Apr 2, 10:34 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Thu, 2 Apr 2009 16:42:32 -0700 (PDT), vo1...@gmail.com wrote:
> >Did you ever try to model a resonator where the coil required is
> >actually longer than the insulator, so that the vertical part of the
> >resonator is actually inside the coil
>
> Hi Brett,
>
> After following Cecil's pet theory, and your statement of finding it
> useful, your question above becomes a remarkably perplexing
> application of that knowledge.
>
> The theory should have answered your question before hand.

Thanks very much for the information you provided to my posting.
The theory to the question was answered, I was asking the question
once again to the group to see if others have input on the subject I
posted. Knowing me I will probably ask many more questions that I have
already have the answer to, just to raise conversation and debate to
get other views on the subject. Thanks again for the info on the
subject, much appreciated. 73, vo1bbn Brett

1940. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 17:47:38 UTC
From: vo1bbn@gmail.com
Message-ID: <71d21a0b-3164-485f-bc0f-1f54bca54335@l38g2000vba.googlegroups.com>
Source record: 16566

On Apr 2, 10:34 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Thu, 2 Apr 2009 16:42:32 -0700 (PDT), vo1...@gmail.com wrote:
> >Did you ever try to model a resonator where the coil required is
> >actually longer than the insulator, so that the vertical part of the
> >resonator is actually inside the coil
>
> Hi Brett,
>
> After following Cecil's pet theory, and your statement of finding it
> useful, your question above becomes a remarkably perplexing
> application of that knowledge.
>
> The theory should have answered your question before hand.

Thanks very much for the information you provided to my posting.
The theory to the question was answered, I was asking the question
once again to the group to see if others have input on the subject I
posted. Knowing me I will probably ask many more questions that I have
already have the answer to, just to raise conversation and debate to
get other views on the subject. Thanks again for the info on the
subject, much appreciated. 73, vo1bbn Brett

1941. Re: multiband resonant radials

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 18:16:05 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <q7kct45j3og69s838b92hb746lmbeeahej@4ax.com>
Source record: 16563

On Fri, 03 Apr 2009 10:52:48 -0500, Bob Miller <NOSPAM@neosoft.com>
wrote:

>>The Butternut radial design is simply a variation in the fan dipole
>>where several wires are connected at one point, but each wire
>>resonates in a different band.
>
>The Butternut twinlead appears to be connected at each end, forming a
>single wire folded back on itself. Is that the same as a fan dipole?

Hi Bob,

Look closely at the figure. The twin lead is connected at both ends,
true enough; but it also has added wire. The connection at the far
end of the twin lead actually defines two paths, and the connection at
the near end defines two paths. Any one path that is resonant at a
quarter wave is going to swamp the other paths' reactances.

This is the trick of the fan dipole. Those extra leads' present
hugely mismatched Zs which do not accept power, and the one lead that
is matched (at resonance) takes all the power applied - very
convenient. When you shift frequency, another wire becomes resonant,
leaving the others to mismatch. This is the simplicity of the Fan
Dipole that resides in these multi-band radials.

73's
Richard Clark, KB7QHC

1942. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 18:36:52 UTC
From: "Bruce W. Ellis" <ellis@means.net>
Message-ID: <nmlct4tdei2a9s9ir957ohjncoe3acls54@4ax.com>
Source record: 16567

On Fri, 03 Apr 2009 10:39:37 -0800, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Fri, 03 Apr 2009 07:34:20 -0500, Cecil Moore <nospam@w5dxp.com>
>wrote:
>
>>Richard Clark wrote:
>>> One
>>> inductance value (however it is wound) is not equivalent everywhere -
>
>>Nobody said one inductance value is equivalent everywhere.
>Nobody is not very many people which should make this a short list.
>But I don't see any names - strange.
>>In fact, just the opposite is true.
>which must mean
>>Nobody said one inductance value is NOT equivalent everywhere.
>or, perhaps:
>>EVERYBODY said one inductance value is equivalent everywhere.
>or, perhaps:
>>EVERYBODY said one inductance value is NOT equivalent everywhere.
>or, perhaps:
>>Nobody said one inductance value is equivalent NO where.
>or, perhaps:
>>Nobody said NO inductance value is equivalent everywhere.
>or, perhaps:
>>EVERBODY said NO inductance value is equivalent NO where.
>...
>>proving your above premise to be false.
>Which apparently nobody (somebody, everbody?) said.
>
>The power of persuasion (Cecil's Degenerative form of the Sub-optimal
>Hypothesis of Information Transformation) at its inventive best to be
>able to wrestle two contradictory claims together and prove them both
>true and false simultaneously!
>
>Cecil must have been posed some very difficult advice as a little
>nipper:
> "Nobody jumped off the roof because everone did - wouldn't you?"
>
>73's
>Richard Clark, KB7QHC

This reminds me of a quote from Yogi Berra (as I recall) about a
retaurant in New York City:

"The place is so crowded, nobody goes there anymore".

W0BF

1943. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 18:39:37 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <6okct45n6f52au61u8iunupdqv49jr3l9d@4ax.com>
Source record: 16564

On Fri, 03 Apr 2009 07:34:20 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> One
>> inductance value (however it is wound) is not equivalent everywhere -

>Nobody said one inductance value is equivalent everywhere.
Nobody is not very many people which should make this a short list.
But I don't see any names - strange.
>In fact, just the opposite is true.
which must mean
>Nobody said one inductance value is NOT equivalent everywhere.
or, perhaps:
>EVERYBODY said one inductance value is equivalent everywhere.
or, perhaps:
>EVERYBODY said one inductance value is NOT equivalent everywhere.
or, perhaps:
>Nobody said one inductance value is equivalent NO where.
or, perhaps:
>Nobody said NO inductance value is equivalent everywhere.
or, perhaps:
>EVERBODY said NO inductance value is equivalent NO where.
...
>proving your above premise to be false.
Which apparently nobody (somebody, everbody?) said.

The power of persuasion (Cecil's Degenerative form of the Sub-optimal
Hypothesis of Information Transformation) at its inventive best to be
able to wrestle two contradictory claims together and prove them both
true and false simultaneously!

Cecil must have been posed some very difficult advice as a little
nipper:
"Nobody jumped off the roof because everone did - wouldn't you?"

73's
Richard Clark, KB7QHC

1944. Re: How is field strength specified?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 18:47:28 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE33AE916FAFnonenowhere@61.9.191.5>
Source record: 16568

"Joel Koltner" <zapwireDASHgroups@yahoo.com> wrote in
news:jHqBl.116719$9j5.23113@en-nntp-01.dc1.easynews.com:

> Quick question... when someone tells you that their receiver provides
> 12dB SINAD (or whatever) with an incident field strength of, say,
> 20uV/m, is 20uV/m an RMS value or magnitude? Or isn't this
> standardized enough that one should assume?
>
> From some Googling RMS appears to be the standard, but I wanted to ask
> some folks who really know...
>
> (Back in school, in EM classes it was always magnitudes...)
>
> Thanks,
> ---Joel
>
>
>

The answer is revealed by finding Power Flux Density in terms of Electric
Field Strength and Magnetic Field Strength.

Owen

1945. Re: NEC model of an 80/40 dipole using bootstrap coax traps

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 19:15:22 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gr5n8a$6ap$3@news.jpl.nasa.gov>
Source record: 16569

Owen Duffy wrote:
> I have constructed an NEC model of an 80/40 dipole using bootstrap coax
> traps. I have generated a helix of GW elements for the RG58C/U coax coil,
> and use NT cards to model the coax interior.
>
> Plain conductors are loaded with copper conductivity.
>
> I am grappling with approprate conductivity for the outer surface of the
> coax coil, thinking that it must be greater than copper because of
> proximity effects and braid effects. I have initially tried loading those
> segments with conductivity of one tenth of copper... but I don't expect
> that will make the RF resistance tenfold.
>
> With those numbers, the loss in the interior of the coax is more than
> half the total loss.
>
> Has anyone experience or thoughts on an appropriate way to load the
> conductor representing the outer surface of the coax coil forming the
> trap?

Try changing the resistivity by a factor of 2 or 10 and see if the model
results change significantly. It might be a non-issue.

1946. Re: How is field strength specified?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 19:16:21 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gr5na5$6ap$4@news.jpl.nasa.gov>
Source record: 16570

Joel Koltner wrote:
> Quick question... when someone tells you that their receiver provides 12dB
> SINAD (or whatever) with an incident field strength of, say, 20uV/m, is 20uV/m
> an RMS value or magnitude? Or isn't this standardized enough that one should
> assume?

RMS.. The conversion from E field to power density will assume 377 ohms

>
> From some Googling RMS appears to be the standard, but I wanted to ask some
> folks who really know...
>
> (Back in school, in EM classes it was always magnitudes...)
>
> Thanks,
> ---Joel
>
>

1947. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 20:17:03 UTC
From: Dave <noone@nowhere.com>
Message-ID: <39uBl.1312$Q52.578@nwrddc02.gnilink.net>
Source record: 16571

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:4cc738b4-c702-4ec1-8a01-b060a1efe9d0@q9g2000yqc.googlegroups.com...
> Many on this newsgroup are aware of my views on radiation which I then
> took to the QRZ antenna page because of the fraustration created by

GREAT! now i know where to go to catch up on your balmy theories! wx is
bad, could use a good laugh right now!

1948. Re: NEC model of an 80/40 dipole using bootstrap coax traps

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 20:36:43 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE34D6EF34D9nonenowhere@61.9.191.5>
Source record: 16572

Jim Lux <james.p.lux@jpl.nasa.gov> wrote in
news:gr5n8a$6ap$3@news.jpl.nasa.gov:

...
> Try changing the resistivity by a factor of 2 or 10 and see if the
> model results change significantly. It might be a non-issue.
>

Thanks Jim, I did such an analysis and should have posted the results.

The majority of loss is in the interior of the transmission line as posted. If I change the conductivity of the segments used by the coil, total conductor loss halves, so it seems signficant.

I am thinking that with proximity effect likely to confine current distribution to perhaps one fifth of the shield circumference, and effects of braid on RF resistance, the effective RF resistance of the outside of the shield might be five times or so the resistance of a copper tube of same diameter.

I assume that NEC will not be modelling proximity effect, but I could be wrong.

Do you have any suggestions?

Owen

1949. Re: NEC model of an 80/40 dipole using bootstrap coax traps

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 20:45:34 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE34EEF43682nonenowhere@61.9.191.5>
Source record: 16573

Owen Duffy <none@no.where> wrote in
news:Xns9BE2B7AD962CBnonenowhere@61.9.191.5:

> proximity effects and braid effects. I have initially tried loading
> those segments with conductivity of one tenth of copper... but I don't
> expect that will make the RF resistance tenfold.
>

I wasn't very clear there... I loaded the segments with one ninth of
copper, and that was additional to the overall loading equal to copper, so
the effect should be resistance of ten times copper for the coil segments.

Owen

1950. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 22:18:52 UTC
From: vo1bbn@gmail.com
Message-ID: <bd48fa48-2136-46b2-88ec-bc084f273d13@y13g2000yqn.googlegroups.com>
Source record: 16576

On Apr 3, 8:22 am, Cecil Moore <nos...@w5dxp.com> wrote:
> vo1...@gmail.com wrote:
> > Did you ever try to model a resonator where the coil required is
> > actually longer than the insulator, so that the vertical part of the
> > resonator is actually inside the coil , ...
>
> Never modeled it but have seen its effects during
> 75m mobile shootouts. One fellow had a hamstick
> with the stinger bottom extending down into the
> hamstick loading coil. It was a very lossy
> condition which improved when he hack-sawed the
> excess stinger off.
>
> Do you have EZNEC? If so, I can modify a helical
> loading coil to extend the stinger into the middle
> of the coil and send the file to you.
>
> Conductors within the loading coil field lower
> the effective coil Q. However, I have had good
> luck with a 1.25" fiberglass pipe running through
> the center of the coil providing mechanical
> support. Perhaps you could consider swapping your
> insulator for a piece of fiberglass pipe or rod.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I have the top portion of the antenna put togather, ready to go up in
the next couple of days depending on wx, after I got it put together I
realized that when I got the toroids I was only concerned about 40 &
80M, and then wanted 160M, should these be some what acceptable on
160M with 100watts Their red on the inner, outer, and top, the bottom
is some color of a green or brown. It measures very close to 26mm
outside,15mm inside and 10mm high. No markings what soever. Any
thoughts on if it should work or not. thanks 73, brett

1951. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 22:44:57 UTC
From: Wheatshucker <wheatshucker@bogus.com>
Message-ID: <49D69169.3050506@bogus.com>
Source record: 16577

Art Unwin wrote:
> Many on this newsgroup are aware of my views on radiation which I then
> took to the QRZ antenna page because of the fraustration created by

>(Snippage)

> Art KB9MZ....XG (uk)

Day late for April Fools

1952. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 22:45:53 UTC
From: Wheatshucker <wheatshucker@bogus.com>
Message-ID: <49D691A1.1000804@bogus.com>
Source record: 16578

Art Unwin wrote:
> Many on this newsgroup are aware of my views on radiation which I then
> took to the QRZ antenna page because of the fraustration created by

>(Snippage)

> Art KB9MZ....XG (uk)

One day late for April Fools

1953. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 22:48:25 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gr607dgmj1@news.service.uci.edu>
Source record: 16574

Cecil Moore wrote:
> Jim Kelley wrote:
>> The term x is the phase of the cosine function, Cecil. The phase of
>> the standing wave function varies by 90 degrees along the length of a
>> 1/4 wave resonant standing wave antenna.
>
> I'm sorry, Jim, that is just not true. The standing-wave
> function has a *constant phase* along the length of a 1/4WL
> monopole for any fixed (t). Cos(x) is the *envelope amplitude*
> function (not phase function) for any fixed (t).

Refer to a table of sines and observe the two things which vary
throughout the period of any sinusoidal wave. One of them is amplitude.
What would you prefer I call the other one?

ac6xg

1954. Re: How is field strength specified?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 22:53:37 UTC
From: Joel Koltner <zapwireDASHgroups@yahoo.com>
Message-ID: <TrwBl.79081$UQ6.15530@en-nntp-03.dc1.easynews.com>
Source record: 16579

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gr5na5$6ap$4@news.jpl.nasa.gov...
> RMS.. The conversion from E field to power density will assume 377 ohms

Thanks Jim!

---Joel

1955. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-03 23:04:20 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <tt3dt49t876si0e6v3mqv4302oh0btf3m3@4ax.com>
Source record: 16575

On Fri, 3 Apr 2009 10:47:38 -0700 (PDT), vo1bbn@gmail.com wrote:

>> The theory should have answered your question before hand. ï¿½
>
> Thanks very much for the information you provided to my posting.
> The theory to the question was answered

Hi Brett,

Matching theories to questions is a favorite past time here.

>Knowing me I will probably ask many more questions

Just asking the same question again will lead to many more
theories....

You haven't been entertained until you get the gaussian vectorized
version of the equilibrated coil constant of capacitive electrical
length.

I will sit back to await Cecil's indignant demand that NO ONE
theorized that either; and then NO ONE will spit rhetorically in his
eye saying that they didn't but they meant too. ;-)

73's
Richard Clark, KB7QHC

1956. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 00:15:17 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <oExBl.13496$hc1.6752@flpi150.ffdc.sbc.com>
Source record: 16580

vo1bbn@gmail.com wrote:
> Their red on the inner, outer, and top, the bottom
> is some color of a green or brown.

Sorry, I once knew those color codes but I have
forgotten them over the last 30 years. Perhaps
someone else remembers.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1957. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 00:32:23 UTC
From: "D. Stussy" <spam@bde-arc.ampr.org>
Message-ID: <gr69r5$l4t$1@aux.snarked.org>
Source record: 16581
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gr0pkhome2@news.jpl.nasa.gov...
> Reinhard Zwirner wrote:
> > News Features schrieb:
> >> SILENCED HAMS MEAN SAFER COUNTY
> >
> > I do really hope that this article is related to today's date ...
> >
> > Reinhard
> Google "Los Angeles Press-Telegram", the purported source..

RE- google: And your point is?

Although the main newspaper in LA (City) is the Times, there is a newspaper
in LA County called the Press-Telegram. It's in Long Beach.

The date of the article is conclusive; the name of the alleged newspaper is
NOT - it's a common mistake. The LBPT does have some readership in LA.
It's one of the County's major regional papers.

1958. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 00:48:57 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Y7yBl.22611$c45.7989@nlpi065.nbdc.sbc.com>
Source record: 16582

Jim Kelley wrote:
> Refer to a table of sines and observe the two things which vary
> throughout the period of any sinusoidal wave. One of them is amplitude.
> What would you prefer I call the other one?

Did you not understand what Gene Fuller said?
Io*cos(kx) is the amplitude term. If kx=0 then
the amplitude is Io. If kx=pi/4, the amplitude
is 0.707*Io. If kx=pi/2, the amplitude is zero.
cos(wt) does not vary with (x), only with time.
At any snapshot in time, e.g. t=0, the phase
does not vary at all.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1959. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 01:30:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <v6pia6-g41.ln1@mail.specsol.com>
Source record: 16583

vo1bbn@gmail.com wrote:
> On Apr 3, 8:22 am, Cecil Moore <nos...@w5dxp.com> wrote:
>> vo1...@gmail.com wrote:
>> > Did you ever try to model a resonator where the coil required is
>> > actually longer than the insulator, so that the vertical part of the
>> > resonator is actually inside the coil , ...
>>
>> Never modeled it but have seen its effects during
>> 75m mobile shootouts. One fellow had a hamstick
>> with the stinger bottom extending down into the
>> hamstick loading coil. It was a very lossy
>> condition which improved when he hack-sawed the
>> excess stinger off.
>>
>> Do you have EZNEC? If so, I can modify a helical
>> loading coil to extend the stinger into the middle
>> of the coil and send the file to you.
>>
>> Conductors within the loading coil field lower
>> the effective coil Q. However, I have had good
>> luck with a 1.25" fiberglass pipe running through
>> the center of the coil providing mechanical
>> support. Perhaps you could consider swapping your
>> insulator for a piece of fiberglass pipe or rod.
>> --
>> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> I have the top portion of the antenna put togather, ready to go up in
> the next couple of days depending on wx, after I got it put together I
> realized that when I got the toroids I was only concerned about 40 &
> 80M, and then wanted 160M, should these be some what acceptable on
> 160M with 100watts Their red on the inner, outer, and top, the bottom
> is some color of a green or brown. It measures very close to 26mm
> outside,15mm inside and 10mm high. No markings what soever. Any
> thoughts on if it should work or not. thanks 73, brett

They aren't usually color coded on the "bottom".

If they are iron-powder, red is material #2, which is good for .5 Mhz
to 10 Mhz.

The size seems closest to T-106, which in inches is 1.060 X 0.570 X 0.437.

You can find all the specs, charts, etc. at:

https://www.amidoncorp.com/

--
Jim Pennino

Remove .spam.sux to reply.

1960. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 02:27:25 UTC
From: vo1bbn@gmail.com
Message-ID: <3aea4c0e-d740-49eb-9f97-cb71836ff1d7@s20g2000yqh.googlegroups.com>
Source record: 16584

On Apr 3, 9:15 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> vo1...@gmail.com wrote:
> > Their red on the inner, outer, and top, the bottom
> > is some color of a green or brown.
>
> Sorry, I once knew those color codes but I have
> forgotten them over the last 30 years. Perhaps
> someone else remembers.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Thanks again I'll do a search on net for the color codes, I have some with some # on them but the spec on them are only good for 500khz or well below HF freq. Since some had numbers and are of different color i didn't know they had color code, I have some red , blue, yellow and 1 green, I'l look for the color code thanks. 73 brett

1961. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 02:58:17 UTC
From: vo1bbn@gmail.com
Message-ID: <be122c01-5167-44b4-a0d7-9e5833efde6c@r37g2000yqn.googlegroups.com>
Source record: 16585

On Apr 3, 10:30 pm, j...@specsol.spam.sux.com wrote:
> vo1...@gmail.com wrote:
> > On Apr 3, 8:22 am, Cecil Moore <nos...@w5dxp.com> wrote:
> >> vo1...@gmail.com wrote:
> >> > Did you ever try to model a resonator where the coil required is
> >> > actually longer than the insulator, so that the vertical part of the
> >> > resonator is actually inside the coil , ...
>
> >> Never modeled it but have seen its effects during
> >> 75m mobile shootouts. One fellow had a hamstick
> >> with the stinger bottom extending down into the
> >> hamstick loading coil. It was a very lossy
> >> condition which improved when he hack-sawed the
> >> excess stinger off.
>
> >> Do you have EZNEC? If so, I can modify a helical
> >> loading coil to extend the stinger into the middle
> >> of the coil and send the file to you.
>
> >> Conductors within the loading coil field lower
> >> the effective coil Q. However, I have had good
> >> luck with a 1.25" fiberglass pipe running through
> >> the center of the coil providing mechanical
> >> support. Perhaps you could consider swapping your
> >> insulator for a piece of fiberglass pipe or rod.
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> >> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> > I have the top portion of the antenna put togather, ready to go up in
> > the next couple of days depending on wx, after I got it put together I
> > realized that when I got the toroids I was only concerned about 40 &
> > 80M, and then wanted 160M, should these be some what acceptable on
> > 160M with 100watts Their red on the inner, outer, and top, the bottom
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> > outside,15mm inside and 10mm high. No markings what soever. Any
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>
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> to 10 Mhz.
>
> The size seems closest to T-106, which in inches is 1.060 X 0.570 X 0.437.
>

> You can find all the specs, charts, etc. at:
>
> https://www.amidoncorp.com/
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

Thanks for the link to the info on the color codes , I have the red one in the antenna right now ,I was going to test soon, According to the document on the link, the red toroid spec is 2-30mhz but blue toroid spec is .5-5mhz.
The blue one I have is close to 25mmOD 11mmID 10mmHigh. I'll redo the blue toroid for the inductance I need before I waste my time with the red one Thanks again 73,brett

1962. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 03:15:02 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <vgvia6-tm1.ln1@mail.specsol.com>
Source record: 16586

vo1bbn@gmail.com wrote:
> On Apr 3, 10:30 pm, j...@specsol.spam.sux.com wrote:
>> vo1...@gmail.com wrote:
>> > On Apr 3, 8:22 am, Cecil Moore <nos...@w5dxp.com> wrote:
>> >> vo1...@gmail.com wrote:
>> >> > Did you ever try to model a resonator where the coil required is
>> >> > actually longer than the insulator, so that the vertical part of the
>> >> > resonator is actually inside the coil , ...
>>
>> >> Never modeled it but have seen its effects during
>> >> 75m mobile shootouts. One fellow had a hamstick
>> >> with the stinger bottom extending down into the
>> >> hamstick loading coil. It was a very lossy
>> >> condition which improved when he hack-sawed the
>> >> excess stinger off.
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>> >> Do you have EZNEC? If so, I can modify a helical
>> >> loading coil to extend the stinger into the middle
>> >> of the coil and send the file to you.
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>> >> Conductors within the loading coil field lower
>> >> the effective coil Q. However, I have had good
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>> >> insulator for a piece of fiberglass pipe or rod.
>> >> --
>> >> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
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> The blue one I have is close to 25mmOD 11mmID 10mmHigh. I'll redo
> the blue toroid for the inductance I need before I waste my time with
> the red one Thanks again 73,brett

Yeah, the numbers I quoted are from some old data sheets I have for
some torroids I have.

For whatever reason, some of the numbers are different on their web
site.

I have no clue if that's because the product changed over the years
or the old sheets were wrong.

YMMV.

--
Jim Pennino

Remove .spam.sux to reply.

1963. Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 04:38:34 UTC
From: Tom Horne <hornetd@verizon.net>
Message-ID: <evBBl.1508$Q52.942@nwrddc02.gnilink.net>
Source record: 16587

I realize this may be a terribly basic question but at any given transmitter power will the highest current measured in the antenna feed line occur at the lowest SWR or not.
--
Tom Horne

"This alternating current stuff is just a fad. It is much too dangerous for general use." Thomas Alva Edison

1964. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 05:29:20 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <b3f2e0c9-2b67-42c2-86ef-97a56261994a@c18g2000prh.googlegroups.com>
Source record: 16588

On Apr 3, 9:38 pm, Tom Horne <horn...@verizon.net> wrote:
> I realize this may be a terribly basic question but at any given
> transmitter power will the highest current measured in the antenna feed
> line occur at the lowest SWR or not.
> --
> Tom Horne
>
> "This alternating current stuff is just a fad. It is much too dangerous
> for general use." Thomas Alva Edison

At the lowest SWR, 1:1, the steady-state RMS current along a lossless transmission line is everywhere the same. At high SWR, the steady-state RMS current along a lossless line varies between some high value and some low value; the SWR is the ratio of the high value over the low value, assuming the line is long enough that you won't find higher or lower by extending the length of the line.

If the antenna feedpoint impedance is, say, 10 ohms and you feed it 100 watts, you should measure sqrt(10) amps at the feedpoint. You'd have a 5:1 SWR on a 50 ohm line with that load. With a 250 ohm load, you'd also have a 5:1 SWR on the same line, but the current at the antenna end for 100 watts delivered to the antenna would be sqrt(0.4) amps, or 1/5 as much current. If the antenna represents a 50 ohm load on the same 50 ohm line (swr = 1:1), the current is sqrt(2) amps for 100 watts, an intermediate value.

Hope that helps (and that I haven't screwed up my mental arithmetic).

Cheers,
Tom

1965. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 08:36:27 UTC
From: sativasam <sativaspam@ntlworld.com>
Message-ID: <f_EBl.239509$Hk2.233905@newsfe22.ams2>
Source record: 16589

It won't be long though. The folk round here 'UK' complain and protest about
any new phone mast.
There are assorted wires all over the trees in my yard, and a vertical for
20/10
no one has said anything about them. Yet!
I do lie though I say there only for my shortwave receiver.
No nasty RF transmitting from here old man.
Ameritron naa that's just a heater to keep my room warm.

"stan" <tsanford@nf.sympatico.ca> wrote in message
news:cc0486b7-fe6a-4950-97cd-6945d1c2efae@n33g2000vba.googlegroups.com...
On Apr 2, 7:00 pm, Scott <acepilotREM...@bloomer.net> wrote:
> News Features wrote:
> > SILENCED HAMS MEAN SAFER COUNTY
>
> > -from the Los Angeles Press-Telegram (4/1/2009)
>
> > San Luis Obispo county supervisors took drastic and unprecedented action
> > yesterday by passing an ordinance that would prohibit amateur radio
> > operators, known as "hams", from operating their transmitting stations.
> > The
> > measure was put in place to eliminate what officials said were health
> > risks
> > associated with transmitters located close to children. A legal struggle
> > is
> > expected.
>
> Good thing this came out on APRIL FIRST...- Hide quoted text -
>
> - Show quoted text -

Reminds one of an outburst of complaints about interferenec to to TV
from one UK radio amateur station back in the 1950s.
While Britain had some TV back in 1937 the 1950s saw a fast growing
increase in domestic TV set ownership; quickly nicknamed 'The Telly'.
The interference complaints bubble burst rather rapidly when it turned
out the amateur in question, ad all his family, had been away from
home for the entire period of the complaints!

1966. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 10:33:44 UTC
From: vo1bbn@gmail.com
Message-ID: <3d52690e-a241-4cf0-8708-1caa6056acba@w9g2000yqa.googlegroups.com>
Source record: 16590

On Apr 4, 12:15 am, j...@specsol.spam.sux.com wrote:
> vo1...@gmail.com wrote:
> > On Apr 3, 10:30 pm, j...@specsol.spam.sux.com wrote:
> >> vo1...@gmail.com wrote:
> >> > On Apr 3, 8:22 am, Cecil Moore <nos...@w5dxp.com> wrote:
> >> >> vo1...@gmail.com wrote:
> >> >> > Did you ever try to model a resonator where the coil required is
> >> >> > actually longer than the insulator, so that the vertical part of the
> >> >> > resonator is actually inside the coil , ...
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> >> >> support. Perhaps you could consider swapping your
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> >> >> --
> >> >> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
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> >> > I have the top portion of the antenna put togather, ready to go up in
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> >>https://www.amidoncorp.com/
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> >> --
> >> Jim Pennino
>
> >> Remove .spam.sux to reply.
>
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> > one in the antenna right now ,I was going to test soon, According to
> > the document on the link, the red toroid spec is 2-30mhz but blue
> > toroid spec is .5-5mhz.
> > The blue one I have is close to 25mmOD   11mmID   10mmHigh. I'll redo
> > the blue toroid for the inductance I need before I waste my time with
> > the red one Thanks again 73,brett
>
> Yeah, the numbers I quoted are from some old data sheets I have for
> some torroids I have.
>
> For whatever reason, some of the numbers are different on their web
> site.
>
> I have no clue if that's because the product changed over the years
> or the old sheets were wrong.
>
> YMMV.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

I removed the red toroid from the vertical and replaced it with a blue one, I'm hoping to get this thing up today to see how it performs. I'll do some tests on it for a couple of weeks then maybe try the red toroid anyway to see if it too will work.From the specs I found red being 2-30mhz and blue 0.5-5mhz it seems obvious that the blue one is the better choice for 160 but not a good choice for 40M. And vice versa the red one better for 40 but a good choice for 160. I will to to find out more info on color code and material type, I also have a couple of type 43 binocular core very small black ones, that a fellow ham gave me, they measure about 15mm long X 11mm wide X 7mm thick the two holes are about 7mm center to center and 4mm in diameter. I used these on rx antennas, one wound 9:1 for an EWE and another 4:1 for loop, would these possibly work for tx with 100w or less on 160-40M They seem to work very well on rx for that freq range. Thanks again, 73, brett

1967. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 11:24:49 UTC
From: Dave <noone@nowhere.com>
Message-ID: <5sHBl.1463$6n.1265@nwrddc01.gnilink.net>
Source record: 16591

"Wheatshucker" <wheatshucker@bogus.com> wrote in message
news:49D691A1.1000804@bogus.com...
> Art Unwin wrote:
>> Many on this newsgroup are aware of my views on radiation which I then
>> took to the QRZ antenna page because of the fraustration created by
>
>>(Snippage)
>
>> Art KB9MZ....XG (uk)
>
> One day late for April Fools

he is just an every day fool.

1968. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 13:55:58 UTC
From: ken scharf <wa2mzeNOSPAMBOTS@bellsouth.net>
Message-ID: <QvJBl.24607$v8.5525@bignews5.bellsouth.net>
Source record: 16592
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

Reinhard Zwirner wrote:
> News Features schrieb:
>> SILENCED HAMS MEAN SAFER COUNTY
>
> I do really hope that this article is related to today's date ...
>
> Reinhard
It is.
If it were real, it would be the first law I'd break, then after
being arrested take the bastards to federal court, sue, win a gazillion
dollars and retire.

1969. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 14:01:18 UTC
From: Andy <dx90@blueyounder.co.uk>
Message-ID: <MKJBl.100905$aR3.62466@newsfe17.ams2>
Source record: 16593

I'll put the I-max 2000 up without the ground plain kit for now and see how
that works.

I have made a ugly balun up to put into the deed line.

Where do I put it to, just below the Ariel or at the bottom of the main
mast?

Also is it best to isolate the I-max from the stub mast or connect it
direct?

Thanks

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:c8202581-77d8-45dc-ac18-f5c42248d978@z8g2000prd.googlegroups.com...
On Mar 30, 2:54 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:
> "Harry H" <harryha...@hotmail.com> wrote in message
>
> news:FtSzl.1410$Bm1.355@news-server.bigpond.net.au...
>
>
>
> > Andy,
>
> > I "Googled" the antenna and this is what I found:
>
> > Solarcon I-max 2000
> > This antenna tunes from 20 upto 10 Metre, making it perfect for HF
> > operation
>
> > a.. Solarcon 5/8 Wave
> > a.. Base Station Antenna
> > a.. End Fed 5/8 wavelength radiator
> > a.. Extended I-Max (current Maximum) Center Section
> > a.. Radials are Not Required!
> > a.. Wide Bandwidth
> > a.. High Power 5000 Watts.
> > a.. Outstanding Gain
> > a.. 24 Feet Long
> > a.. Wind Rating - 100 MPH
>
> > 73
> > HH
>
> > "Andy" <d...@blueyounder.co.uk> wrote in message
> >news:HsMzl.198638$Hk2.74218@newsfe22.ams2...

> >> Hi all
>
> >> I have a Solarcon I-max 2000 for 10 metes.
>
> >> My question is about the ground plain legs. Would it work any different
> >> if the ground plain legs were horizontal rather than on a downward
> >> angle?
>
> >> The bracket that came with it is rusted badly and it would be easer for
> >> me to mount them horizontal on a new home made bracket.
>
> >> Thanks
>
> The Solarcon antenna derives no benefit from using radials. Spare yourself
> the drudgery and effort. Some folks were feeding upon the ignorance of CB
> users and were trying to create mystical/magical options they could sell
> for
> more profit. The basic antenna is surprisingly the good. The rest of the
> junk is unnecessary.
>
> Ed, N2ECW

Hmm
How do you know for sure that the arms are not part of the radiator ?
The specs say no "ground" plane required which suggests no buried
wires
as artificial ground is supplied

1970. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 14:20:53 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1XJBl.15952$D32.1039@flpi146.ffdc.sbc.com>
Source record: 16594

Tom Horne wrote:
> I realize this may be a terribly basic question but at any given
> transmitter power will the highest current measured in the antenna feed
> line occur at the lowest SWR or not.

For the same amount of delivered power, the highest
current will occur at the highest SWR assuming a
current maximum point exists on the transmission line.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1971. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 15:33:56 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <W_KBl.26105$19.23336@bignews2.bellsouth.net>
Source record: 16595

"Andy" <dx90@blueyounder.co.uk> wrote in message
news:MKJBl.100905$aR3.62466@newsfe17.ams2...
> I'll put the I-max 2000 up without the ground plain kit for now and see
> how that works.
>
> I have made a ugly balun up to put into the deed line.
>
> Where do I put it to, just below the Ariel or at the bottom of the main
> mast?
>
> Also is it best to isolate the I-max from the stub mast or connect it
> direct?
>
> Thanks
>
>
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:c8202581-77d8-45dc-ac18-f5c42248d978@z8g2000prd.googlegroups.com...
> On Mar 30, 2:54 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:
>> "Harry H" <harryha...@hotmail.com> wrote in message
>>
>> news:FtSzl.1410$Bm1.355@news-server.bigpond.net.au...
>>
>>
>>
>> > Andy,
>>
>> > I "Googled" the antenna and this is what I found:
>>
>> > Solarcon I-max 2000
>> > This antenna tunes from 20 upto 10 Metre, making it perfect for HF
>> > operation
>>
>> > a.. Solarcon 5/8 Wave
>> > a.. Base Station Antenna
>> > a.. End Fed 5/8 wavelength radiator
>> > a.. Extended I-Max (current Maximum) Center Section
>> > a.. Radials are Not Required!
>> > a.. Wide Bandwidth
>> > a.. High Power 5000 Watts.
>> > a.. Outstanding Gain
>> > a.. 24 Feet Long
>> > a.. Wind Rating - 100 MPH
>>

>> > 73
>> > HH
>>
>> > "Andy" <d...@blueyounder.co.uk> wrote in message
>> >news:HsMzl.198638$Hk2.74218@newsfe22.ams2...
>> >> Hi all
>>
>> >> I have a Solarcon I-max 2000 for 10 metes.
>>
>> >> My question is about the ground plain legs. Would it work any
>> >> different
>> >> if the ground plain legs were horizontal rather than on a downward
>> >> angle?
>>
>> >> The bracket that came with it is rusted badly and it would be easer
>> >> for
>> >> me to mount them horizontal on a new home made bracket.
>>
>> >> Thanks
>>
>> The Solarcon antenna derives no benefit from using radials. Spare
>> yourself
>> the drudgery and effort. Some folks were feeding upon the ignorance of CB
>> users and were trying to create mystical/magical options they could sell
>> for
>> more profit. The basic antenna is surprisingly the good. The rest of the
>> junk is unnecessary.
>>
>> Ed, N2ECW
> Hmm
> How do you know for sure that the arms are not part of the radiator ?
> The specs say no "ground" plane required which suggests no buried
> wires
> as artificial ground is supplied
>
>

I know it the same way that you and I know that the Sun will not explode tomorrow or the that the Moon will not crash into the Earth the day after.

Come on, let's get real here. I have been studying antenna theory since the Sixties and I've been building my own and buying my own antennas for just as long. I've been at it long enough to know what works and what is glorified garbage. Don't believe me? Fine, you go through all of the steps that I've been through. I'll tell you now that you'll end up in the same place. Who knows, you might even enjoy the trip.

Ed, N2ECW

1972. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 16:27:28 UTC
From: Scott <acepilotREMOVE@bloomer.net>
Message-ID: <INWdnc5yE8TtF0rUnZ2dnUVZ_rudnZ2d@bright.net>
Source record: 16596
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

ken scharf wrote:
> Reinhard Zwirner wrote:
>> News Features schrieb:
>>> SILENCED HAMS MEAN SAFER COUNTY
>>
>> I do really hope that this article is related to today's date ...
>>
>> Reinhard
> It is.
> If it were real, it would be the first law I'd break, then after
> being arrested take the bastards to federal court, sue, win a gazillion
> dollars and retire.

Would that be a gazillion dollars hot off the printing presses? You
might want to get that payment in gold and silver ;)

1973. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 16:30:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <12eka6-o49.ln1@mail.specsol.com>
Source record: 16597

vo1bbn@gmail.com wrote:
> On Apr 4, 12:15 am, j...@specsol.spam.sux.com wrote:
>> vo1...@gmail.com wrote:
>> > On Apr 3, 10:30 pm, j...@specsol.spam.sux.com wrote:
>> >> vo1...@gmail.com wrote:
>> >> > On Apr 3, 8:22 am, Cecil Moore <nos...@w5dxp.com> wrote:
>> >> >> vo1...@gmail.com wrote:
>> >> >> > Did you ever try to model a resonator where the coil required is
>> >> >> > actually longer than the insulator, so that the vertical part of the
>> >> >> > resonator is actually inside the coil , ...
>>
>> >> >> Never modeled it but have seen its effects during
>> >> >> 75m mobile shootouts. One fellow had a hamstick
>> >> >> with the stinger bottom extending down into the
>> >> >> hamstick loading coil. It was a very lossy
>> >> >> condition which improved when he hack-sawed the
>> >> >> excess stinger off.
>>
>> >> >> Do you have EZNEC? If so, I can modify a helical
>> >> >> loading coil to extend the stinger into the middle
>> >> >> of the coil and send the file to you.
>>
>> >> >> Conductors within the loading coil field lower
>> >> >> the effective coil Q. However, I have had good
>> >> >> luck with a 1.25" fiberglass pipe running through
>> >> >> the center of the coil providing mechanical
>> >> >> support. Perhaps you could consider swapping your
>> >> >> insulator for a piece of fiberglass pipe or rod.
>> >> >> --
>> >> >> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>>
>> >> > I have the top portion of the antenna put togather, ready to go up in
>> >> > the next couple of days depending on wx, after I got it put together I
>> >> > realized that when I got the toroids I was only concerned about 40 &
>> >> > 80M, and then wanted 160M, should these be some what acceptable on
>> >> > 160M with 100watts Their red on the inner, outer, and top, the bottom
>> >> > is some color of a green or brown. It measures very close to 26mm
>> >> > outside,15mm inside and 10mm high. No markings what soever. Any
>> >> > thoughts on if it should work or not. thanks 73, brett
>>
>> >> They aren't usually color coded on the "bottom".
>>
>> >> If they are iron-powder, red is material #2, which is good for .5 Mhz
>> >> to 10 Mhz.

>>
>> >> The size seems closest to T-106, which in inches is 1.060 X 0.570 X 0.437.
>>
>> >> You can find all the specs, charts, etc. at:
>>
>> >>https://www.amidoncorp.com/
>>
>> >> --
>> >> Jim Pennino
>>
>> >> Remove .spam.sux to reply.
>>
>> > Thanks for the link to the info on the color codes , I have the red
>> > one in the antenna right now ,I was going to test soon, According to
>> > the document on the link, the red toroid spec is 2-30mhz but blue
>> > toroid spec is .5-5mhz.
>> > The blue one I have is close to 25mmOD   11mmID   10mmHigh. I'll redo
>> > the blue toroid for the inductance I need before I waste my time with
>> > the red one Thanks again 73,brett
>>
>> Yeah, the numbers I quoted are from some old data sheets I have for
>> some torroids I have.
>>
>> For whatever reason, some of the numbers are different on their web
>> site.
>>
>> I have no clue if that's because the product changed over the years
>> or the old sheets were wrong.
>>
>> YMMV.
>>
>> --
>> Jim Pennino
>>
>> Remove .spam.sux to reply.
>
> I removed the red toroid from the vertical and replaced it with a blue
> one, I'm hoping to get this thing up today to see how it performs.
> I'll do some tests on it for a couple of weeks then maybe try the red
> toroid anyway to see if it too will work.From the specs I found red
> being 2-30mhz and blue 0.5-5mhz it seems obvious that the blue one is
> the better choice for 160 but not a good choice for 40M. And vice
> versa the red one better for 40 but a good choice for 160. I will to
> to find out more info on color code and material type, I also have a
> couple of type 43 binocular core very small black ones, that a fellow
> ham gave me, they measure about 15mm long X 11mm wide X 7mm thick the
> two holes are about 7mm center to center and 4mm in diameter. I used
> these on rx antennas, one wound 9:1 for an EWE and another 4:1 for
> loop, would these possibly work for tx with 100w or less on 160-40M
> They seem to work very well on rx for that freq range. Thanks again,

> 73, brett

My gut feel is either core will "work" and that unless you have access
to some lab grade equipment, you won't see any performance difference
between the two.

--
Jim Pennino

Remove .spam.sux to reply.

1974. Re: NEC modelling of lossy transmission lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 16:32:31 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <zYLBl.19955$Db2.5419@edtnps83>
Source record: 16598

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BE060F7FBD43nonenowhere@61.9.191.5...
> TLLC (http://www.vk1od.net/calc/tl/tllc.php) and TWLLC
> (http://www.vk1od.net/calc/tl/twllc.htm) have been enhanced to calculate
> two port S parameters and Y parameters for the described transmission
> line section.
>
> The parameters are independent of load. They are dependent on line type,
> frequency, and length and are only calculated if no mismatch is specified
> (to emphasis the independence of load). Because transmission lines are
> repiprocal two port networks, only S11 and S21 are displayed, S22=S11 and
> S12=S21; and likewise for the Y parameters.
>
> An example use for the two port model is NEC NT network cards which use Y
> parameters to describe the network.
>
> NEC model of G5RV with NT cards for lossy transmission line
> (http://vk1od.net/blog/wp-content/uploads/2009/03/g5rv-nt.nec) is an
> example NEC model that uses two NT cards to model the open wire line
> section and then coax for a G5RV at 3.6MHz. NEC will include the
> transmission line losses in the "Network Loss" category under the Power
> Budget heading in the NEC output report, and calculated Efficiency will
> include the effects of the transmission line loss. The impedance seen by
> the source in this example includes the effects of transformation by the
> lossy line sections.
>
> For convenience with NEC, the calculator output also contains an NT card
> prototype with the Y parameters for the transmission line section.
>
> Owen

Thanks Owen, A very useful tool.

73,

Frank (VE6CB)

1975. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-04 17:53:40 UTC
From: JB <nospam@goofball.net>
Message-ID: <E8NBl.1530$6n.937@nwrddc01.gnilink.net>
Source record: 16599
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

> Although the main newspaper in LA (City) is the Times, there is a
newspaper
> in LA County called the Press-Telegram. It's in Long Beach.
>
> The date of the article is conclusive; the name of the alleged newspaper
is
> NOT - it's a common mistake. The LBPT does have some readership in LA.
> It's one of the County's major regional papers.
>
But the story can't be found on their website, nor can any story referenced
to ham radio.

1976. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 00:21:08 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <0ea4c66d-acff-4e6f-8e59-1036b4dc984c@f19g2000yqh.googlegroups.com>
Source record: 16600

On Apr 4, 6:57 pm, Bart Bailey <m...@privacy.net> wrote:
> In Message-ID:<W_KBl.26105$19.23...@bignews2.bellsouth.net> posted on
> Sat, 4 Apr 2009 11:33:56 -0400, Ed Cregger wrote: Begin
>
>
>
> >I know it the same way that you and I know that the Sun will not explode
> >tomorrow or the that the Moon will not crash into the Earth the day after.
>
> >Come on, let's get real here. I have been studying antenna theory since the
> >Sixties and I've been building my own and buying my own antennas for just as
> >long. I've been at it long enough to know what works and what is glorified
> >garbage. Don't believe me? Fine, you go through all of the steps that I've
> >been through. I'll tell you now that you'll end up in the same place. Who
> >knows, you might even enjoy the trip.
>
> Geeze Ed, maybe QSY over to the fridge for a cool one and relax.
>
> The radials are not connected to the vertical radiator, and serve as
> decoupling for any standing waves on the coax, which can be accomplished
> with a snap on ferrite choke, wound coax coil, or in my case by wrapping
> the coax around the mast several times on the way down.
>
> ~~~
>
> As to the sun's explosion - maybe that's why cycle 24 is so slow to go,
> calm before the storm ;-)
> --
>
> 73 de
> KM6RF
> Bart

I had one and it got into my phone line until I choked the feed line.

Im not sure what kind of antenna it is. Looked like either an end-fed
or center fed dipole.

Jimmie

1977. Re: Quietest Sun since 1913

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 00:27:34 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <RIWdnf6WIsRwZ0rUnZ2dnUVZ8uidnZ2d@westnet.com.au>
Source record: 16701

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BE24FC5421Bnonenowhere@61.9.191.5...
> Peter,
>
> Your reference is interesting, their story is changing from
> http://science.nasa.gov/headlines/y2008/11jul_solarcycleupdate.htm?
> list174385 (fix the wrapped URL).
>
> I have been plotting the percentage of days in a calendar month that were
> spotless during this transition.
>
> Certainly, March 2009 isn't encouraging.
>
> The graphs are at http://www.vk1od.net/propagation/solar/spotless.htm .
>
> I wouldn't hazard a guess at when sunspot numbers climb significantly,
> though signs are that the transition has already occured, just enduring a
> very long sunspot drought... from Canberra where it doesn't rain any more
> either!
>
> Owen

Owen

What is your feel for when this quiet period will in fact be breaking new
ground? I understand that us humans have only a couple of hundred years for
reasonable quality data to assume what the norm is. Bit like our Australian
climate records!

Regards

--
Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

1978. Re: solarcon I-max 2000

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 01:46:32 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <2e110678-2613-4d5f-ad2e-dd387ec478e1@f19g2000yqh.googlegroups.com>
Source record: 16702

On Apr 4, 8:56 pm, Bart Bailey <m...@privacy.net> wrote:
> In
> Message-ID:<0ea4c66d-acff-4e6f-8e59-1036b4dc9...@f19g2000yqh.googlegroups.com>
> posted on Sat, 4 Apr 2009 17:21:08 -0700 (PDT), JIMMIE wrote: Begin
>
>
>
> >I had one and it got into my phone line until I choked the feed line.
>
> What type of choke arrangement worked for you?

The antenna was on a PVC mast, I wraped a few turns of RG58 using the
mast for a coil form. Its been a few years since I had the antenna up
but I think I had the choke 1/4wl or 1/2wl from the feed point.

Jimmie

1979. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 04:13:16 UTC
From: Tom Horne <hornetd@verizon.net>
Message-ID: <wdWBI.1719$Q52.413@nwrddc02.gnilink.net>
Source record: 16703

K7ITM wrote:
> On Apr 3, 9:38 pm, Tom Horne <horn...@verizon.net> wrote:
>> I realize this may be a terribly basic question but at any given
>> transmitter power will the highest current measured in the antenna feed
>> line occur at the lowest SWR or not.
>> --
>> Tom Horne
>>
>> "This alternating current stuff is just a fad. It is much too dangerous
>> for general use." Thomas Alva Edison
>
> At the lowest SWR, 1:1, the steady-state RMS current along a lossless
> transmission line is everywhere the same. At high SWR, the steady-
> state RMS current along a lossless line varies between some high value
> and some low value; the SWR is the ratio of the high value over the
> low value, assuming the line is long enough that you won't find higher
> or lower by extending the length of the line.
>
> If the antenna feedpoint impedance is, say, 10 ohms and you feed it
> 100 watts, you should measure sqrt(10) amps at the feedpoint. You'd
> have a 5:1 SWR on a 50 ohm line with that load. With a 250 ohm load,
> you'd also have a 5:1 SWR on the same line, but the current at the
> antenna end for 100 watts delivered to the antenna would be sqrt(0.4)
> amps, or 1/5 as much current. If the antenna represents a 50 ohm load
> on the same 50 ohm line (swr = 1:1), the current is sqrt(2) amps for
> 100 watts, an intermediate value.
>
> Hope that helps (and that I haven't screwed up my mental arithmetic).
>
> Cheers,
> Tom

Tom

If you have the patience please bare with me as I'm hoping to learn
something here. I was trying to figure out what use if any could be
made of a current measuring device located at the antenna feed point.
What relationship would there be between maximum current at the feed
point and affective radiated power. I've been told in both my license
preparation classes that making sure that the transmitter sees a low SWR
does not insure a good signal out of the antenna. I'm looking for some
way to actually measure the amount of energy that is getting to the
antenna since it seams impractical to measure the signal strength in the
near or far fields during operation of the transmitter.

--
Tom Horne

"This alternating current stuff is just a fad. It is much too dangerous
for general use." Thomas Alva Edison

1980. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 06:52:12 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE4AB9C44028nonenowhere@61.9.191.5>
Source record: 16704

Tom Horne <hornetd@verizon.net> wrote in
news:wdWBl.1719$Q52.413@nwrddc02.gnilink.net:

> K7ITM wrote:
>> On Apr 3, 9:38 pm, Tom Horne <horn...@verizon.net> wrote:
>>> I realize this may be a terribly basic question but at any given
>>> transmitter power will the highest current measured in the antenna
>>> feed line occur at the lowest SWR or not.
>>> --
>>> Tom Horne
>>>
>>> "This alternating current stuff is just a fad. It is much too
>>> dangerous for general use." Thomas Alva Edison
>>
>> At the lowest SWR, 1:1, the steady-state RMS current along a lossless
>> transmission line is everywhere the same. At high SWR, the steady-
>> state RMS current along a lossless line varies between some high
>> value and some low value; the SWR is the ratio of the high value over
>> the low value, assuming the line is long enough that you won't find
>> higher or lower by extending the length of the line.
>>
>> If the antenna feedpoint impedance is, say, 10 ohms and you feed it
>> 100 watts, you should measure sqrt(10) amps at the feedpoint. You'd
>> have a 5:1 SWR on a 50 ohm line with that load. With a 250 ohm load,
>> you'd also have a 5:1 SWR on the same line, but the current at the
>> antenna end for 100 watts delivered to the antenna would be sqrt(0.4)
>> amps, or 1/5 as much current. If the antenna represents a 50 ohm
>> load on the same 50 ohm line (swr = 1:1), the current is sqrt(2) amps
>> for 100 watts, an intermediate value.
>>
>> Hope that helps (and that I haven't screwed up my mental arithmetic).
>>
>> Cheers,
>> Tom
>
> Tom
>
> If you have the patience please bare with me as I'm hoping to learn
> something here. I was trying to figure out what use if any could be
> made of a current measuring device located at the antenna feed point.
> What relationship would there be between maximum current at the feed
> point and affective radiated power. I've been told in both my license
> preparation classes that making sure that the transmitter sees a low
> SWR does not insure a good signal out of the antenna. I'm looking for

> some way to actually measure the amount of energy that is getting to
> the antenna since it seams impractical to measure the signal strength
> in the near or far fields during operation of the transmitter.
>

If you do not change anything about your antenna system (and that includes the feedline if it carries significant common mode current), more current means more power radiated, radiated power will be proportional to current squared.

If you knew the radiation resistance and current, you could calculate the radiated power, couldn't you. But, measurement of radiation resistance is a challenge. For some antennas that are known to have good efficiency, you could assume that the feedpoint resistance is almost entirely radiation resistance.

If by changing the VSWR, you mean that you change the antenna is some way that changes the radiation resistance, then the above does not apply because now two factors, current and resistance are changing).

If you adjust say an ATU on the transmitter side of the current measurement, maximum antenna current would usually occur near minimum VSWR, but not necessarily at exactly minimum VSWR.

But, you could do things that reduce VSWR and reduce radiated power. For example, if you insert a 10dB attenuator in the output of your ATU, you will improve the VSWR, but in most cases, reduce the power radiated.

For most radiated power, you usually need to strive for efficiency rather than slavish pursuit of low VSWR. It is not as easy to evaluate efficiency, probably the main reason people focus on VSWR as it is real easy to measure! Viewing the world through a VSWR meter is a very limited view.

I offer an example of efficiency over VSWR: my 40m antenna is a dipole that is cut a little shorter than a half wave (yes, non-resonant), so as to cause a 1.5:1 VSWR on the RG6 feedline (yes, the target VSWR is greater than 1), and the feedline is cut at a length that results in a 50 +j0 (VSWR(50)=1) load that I can plug straight on to my transceiver. (You can read about it at http://www.vk1od.net/antenna/7MDipole/7MDipole.htm .)

The bottom line is that transmission lines are a very interesting topic, and a sound understanding is better than learning Rules Of Thumb (ROT) from others, they are often wrong. With knowledge you can make informed design choices rather than excluding a whole lot of worthwhile solutions because they breach dumbed down or false ROT.

Owen

1981. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 08:14:33 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE4B992ABD53nonenowhere@61.9.191.5>
Source record: 16705

Owen Duffy <none@no.where> wrote in
news:Xns9BE4AB9C44028nonenowhere@61.9.191.5:

...
> But, you could do things that reduce VSWR and reduce radiated power.
> For example, if you insert a 10dB attenuator in the output of your
> ATU, you will improve the VSWR, but in most cases, reduce the power
> radiated.

I should have written that clearer... you will improve the VSWR seen by the
ATU, ie upstream of the attenuator. Of course, the attenuator does nothing
to the VSWR on the load side of itself.

Owen

1982. WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 13:13:35 UTC
From: Michael Vaia <Michael.Vaia.41e8e0e@radiobanter.com>
Message-ID: <Michael.Vaia.41e8e0e@radiobanter.com>
Source record: 16707

Hi,

I have been out of the hobby for a while and am setting up my station.
I'm looking for an old set of stacked 11 element yagis that were made by
Cushcraft. If you have something in reasonable shape at a reasonable
price, drop me an email at W8ABC@qsl.net I'm in Maryland by the way
and am happy to pick them up if they are not too far.

Michael

--
Michael Vaia

1983. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 16:09:10 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <da04f49c-3677-40e9-ab4f-2676df092f7e@w9g2000yqa.googlegroups.com>
Source record: 16706

On Apr 5, 12:13 am, Tom Horne <horn...@verizon.net> wrote:
> K7ITM wrote:
> > On Apr 3, 9:38 pm, Tom Horne <horn...@verizon.net> wrote:
> >> I realize this may be a terribly basic question but at any given
> >> transmitter power will the highest current measured in the antenna feed
> >> line occur at the lowest SWR or not.
> >> --
> >> Tom Horne
> >
> >> "This alternating current stuff is just a fad. It is much too dangerous
> >> for general use." Thomas Alva Edison
> >
> > At the lowest SWR, 1:1, the steady-state RMS current along a lossless
> > transmission line is everywhere the same. At high SWR, the steady-
> > state RMS current along a lossless line varies between some high value
> > and some low value; the SWR is the ratio of the high value over the
> > low value, assuming the line is long enough that you won't find higher
> > or lower by extending the length of the line.
> >
> > If the antenna feedpoint impedance is, say, 10 ohms and you feed it
> > 100 watts, you should measure sqrt(10) amps at the feedpoint. You'd
> > have a 5:1 SWR on a 50 ohm line with that load. With a 250 ohm load,
> > you'd also have a 5:1 SWR on the same line, but the current at the
> > antenna end for 100 watts delivered to the antenna would be sqrt(0.4)
> > amps, or 1/5 as much current. If the antenna represents a 50 ohm load
> > on the same 50 ohm line (swr = 1:1), the current is sqrt(2) amps for
> > 100 watts, an intermediate value.
> >
> > Hope that helps (and that I haven't screwed up my mental arithmetic).
> >
> > Cheers,
> > Tom
> >
> Tom
>
> If you have the patience please bare with me as I'm hoping to learn
> something here. I was trying to figure out what use if any could be
> made of a current measuring device located at the antenna feed point.
> What relationship would there be between maximum current at the feed
> point and affective radiated power. I've been told in both my license
> preparation classes that making sure that the transmitter sees a low SWR
> does not insure a good signal out of the antenna. I'm looking for some
> way to actually measure the amount of energy that is getting to the
> antenna since it seams impractical to measure the signal strength in the

> near or far fields during operation of the transmitter.
>
> --
> Tom Horne
>
> "This alternating current stuff is just a fad. It is much too dangerous
> for general use." Thomas Alva Edison- Hide quoted text -
>
> - Show quoted text -

Monitoring the current would be of about as much use as monitoring any other single parameter lets say VSWR. Once optimal values are established it would provide a useful reference to monitor the condition or changes in your system. Should a significant change occur it is important to find the correct cause of the change. In the case of current or VSWr one could make adjustments to make either read the nominal value but this may not correct the actual problem.

Jimmie

1984. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 18:13:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%q6Cl.16035$D32.11796@flpi146.ffdc.sbc.com>
Source record: 16708

Tom Horne wrote:
> If you have the patience please bare with me as I'm hoping to learn
> I was trying to figure out what use if any could be
> made of a current measuring device located at the antenna feed point.

There's an article in the Feb 2009 "QST" titled
"Keeping Current with Antenna Performance", by
Eric, KL7AJ, that will answer a lot of your
questions about the benefits from measuring the
RF current.

Here's a tidbit for you. Put a Bird wattmeter
at the antenna feedpoint and set it to indicate
reflected power (power rejected by the antenna).

The maximum radiated power from the antenna will
occur when the power rejected by the antenna is
at a maximum - assuming the feedline/antenna
configuration doesn't change. Present that fact
of physics to your license preparation classes
and see what happens. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1985. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 19:44:49 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <h31it41fu13gb5otvntlptrd9e5qbtek5b@4ax.com>
Source record: 16709

On Sun, 05 Apr 2009 13:13:24 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>The maximum radiated power from the antenna will
>occur when the power rejected by the antenna is
>at a maximum

This must be one of those Sparsely Hypothetical Informative Tasers
where you have to do a linguistic rubik cube to parse just what does
"rejected" mean? We have a statement book-ended with "maximums,"
hence what falls between them (another duopoly of antennas) must be
minimally significant. When we apply the random babble dispersal we
obtain the zen:
>maximum from antenna antenna at maximum
Zoots alor! But of course.

> - assuming the feedline/antenna
>configuration doesn't change.

Assuming? This is the hypnotic cusp of self-consciousness. Why would
they change? New billing address? New area code? An existential
crisis during a phase reversal from manic to depressive? Would it
occur on the basis of rejection - like divorce (Please don't leave
honey - I can change. Honestly!)?

>Present that fact
>of physics to your license preparation classes
>and see what happens.

Rejection would seem to be the key word here simply because facts seem
to be so sparse and preparation a ghost of the last election debate.

73's
Richard Clark, KB7QHC

1986. Re: Silenced Hams Mean Safer County

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 21:31:02 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <kn9Cl.4951$Lr6.2011@flpi143.ffdc.sbc.com>
Source record: 16710
Cross-posted to: rec.radio.amateur.homebrew,rec.radio.amateur.antenna

JB wrote:
> lanews.com is a fake spam site
>
> So how do you keep April fools jokes from being picked up by wackos that
> quote it as gospel and try to institute illegal measures in their own
> jurisdiction to drag people down by forcing them to defend themselves at
> great cost or default, like they tried to do in Lancaster.
>
> Quit picking on ham radio.
>
> Instead, lets tell the one where the leader decides a small but identifiable
> group is to blame for all the ills of the world and should be outlawed,
> forced to labor and finally exterminated. Oh wait! That really happened!
>
>
>
> "News Features" <news@lanews.com> wrote in message
> news:JXNAl.23466$Ws1.4318@nlpi064.nbdc.sbc.com...
>> SILENCED HAMS MEAN SAFER COUNTY
>

Gentlemen and Ladies;

Let's not forget that this story is purported to occur in the Peoples Democratic Republic of California. There was a City Council out there that recently tried to ban the possession of DiHydrogen MonoOxide as a deadly and extremely hazardous substance. The measure almost passed when someone noticed that the chemical formula was H20.....

Anything can happen out there in the land of fruits and nuts. (with apologizes to my relatives in San Diego.

1987. Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 21:36:14 UTC
From: xray66@earthlink.net
Message-ID: <a706ece1-d519-47d0-8ffe-8e76cf03ff66@z16g2000prd.googlegroups.com>
Source record: 16711

I always assumed having more 1/2 elements in a collinear was best, because that obviously raises gain and lowers angle. So from that point of view, I was thinking that it would actually be better to use a low VF coax, since that would give you shorter length elements, thus being able to fit more elements in a shorter space. But I've also read that having the element lengths closer to actual 1/2 length (longer) is actually more efficient than having more elements at a shorter (low VF) length. Just wondering what people's opinion is on this... So lets say you have a choice between using the insulated center conductor of a VF 78 coax through brass tube outer elements and having room for a few extra elements in a given length, verses using just an insulated wire that has a 99 VF through brass tube outer elements, thereby allowing slightly less elements because they're longer, but the elements you do have are closer to actual 1/2 length. Which would be best? And this is basically various UHF bands we're talking about.

Thanks for any opinions,

Dave

1988. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 22:50:33 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <ZAaCl.1869$Q52.1264@nwrddc02.gnilink.net>
Source record: 16712

<xray66@earthlink.net> wrote in message
news:a706ece1-d519-47d0-8ffe-8e76cf03ff66@z16g2000prd.googlegroups.com...
>I always assumed having more 1/2 elements in a collinear was best,
> because that obviously raises gain and lowers angle. So from that
> point of view, I was thinking that it would actually be better to use
> a low VF coax, since that would give you shorter length elements, thus
> being able to fit more elements in a shorter space. But I've also read
> that having the element lengths closer to actual 1/2 length (longer)
> is actually more efficient than having more elements at a shorter (low
> VF) length. Just wondering what people's opinion is on this... So lets
> say you have a choice between using the insulated center conductor of
> a VF 78 coax through brass tube outer elements and having room for a
> few extra elements in a given length, verses using just an insulated
> wire that has a 99 VF through brass tube outer elements, thereby
> allowing slightly less elements because they're longer, but the
> elements you do have are closer to actual 1/2 length. Which would be
> best? And this is basically various UHF bands we're talking about.
>
> Thanks for any opinions,
>
> Dave

Hi Dave

Opinion --
If your options are either 5 radiating elements, all slightly shorter than
1/2 wave, or 4 longer elements, there wil be no decernable difference in
which is best. If you are contemplating the construction of an antenna much
longer than several wavelengths, you will encounter problems much more
siginificant than efficiency,. So, in my opinion, the "best" is whatever
you find convenient.

Jerry KD6JDJ

1989. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-05 23:50:36 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE5642254729nonenowhere@61.9.191.5>
Source record: 16713

xray66@earthlink.net wrote in news:a706ece1-d519-47d0-8ffe-8e76cf03ff66
@z16g2000prd.googlegroups.com:

> I always assumed having more 1/2 elements in a collinear was best,
> because that obviously raises gain and lowers angle. So from that
> point of view, I was thinking that it would actually be better to use
> a low VF coax, since that would give you shorter length elements, thus
> being able to fit more elements in a shorter space. But I've also read
> that having the element lengths closer to actual 1/2 length (longer)
> is actually more efficient than having more elements at a shorter (low
> VF) length. Just wondering what people's opinion is on this... So lets
> say you have a choice between using the insulated center conductor of
> a VF 78 coax through brass tube outer elements and having room for a
> few extra elements in a given length, verses using just an insulated
> wire that has a 99 VF through brass tube outer elements, thereby
> allowing slightly less elements because they're longer, but the
> elements you do have are closer to actual 1/2 length. Which would be
> best? And this is basically various UHF bands we're talking about.
Dave,

The popular explanation for these things constructed with reversing coax sections is that the currents all along the vertical are (exactly) in phase.

That explanation doesn't seem consistent with the nominal half wave elements being in fact a halfwave at VF=0.67, ie about two thirds the length. Nor does it deal with the fact that the element ends are connected to each other, ie no charge difference permitted.

I have been playing with an NEC model of eight half wave elements using RG213. The currents are certainly not exactly in phase, not nearly, and the gain in freespace at 6dBi is less than I see claimed for this antenna. People seem to justify a claim of dB gain as 3dB for 2 elements, 6dB for 4 elements, 9dB for 8 elements... in which case they must mean gain to be wrt a dipole, and therefore gain of 8 half waves would be 11.2dBi... very sus, too simplistic.

You asked specifically about efficiency. The efficiency in my NEC model (which includes internal loss in the RG213) is very good, >99%.

Confusing part is that some of the designs have a half wave sticking out the top, and others a quarter wave, similarly different treatments at the bottom, and they aren't consistent about whether the coax breaks at or near voltage maxima or minima.

I am still working on this, I suspect the antenna doesn't quite work as often explained, and not nearly as good as claimed.

Owen

1990. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 01:41:15 UTC
From: xray66@earthlink.net
Message-ID: <2cb27e12-5865-44bd-8bb5-7aa065a21e91@z8g2000prd.googlegroups.com>
Source record: 16714

Thanks for the info... My main concern between my two examples was ease of construction I guess... After stripping the coax and throwing the braid and jacket away, I starting feeling like it was kind of a waste. Then I thought... why not just use insulated wire. But that would bring the element sizes up and not allow as much room for as many elements. Maybe two less elements, which wouldn't be huge, but it would be a difference in specs. One version is 10 half wave elements using a 78 VF center conductor in brass tube, along with a free space 1/4 on the bottom and one on the top. No short at the top as my tests showed this actually lowered performance. I actually am not sure why. Independent tests done by a reputable company that does this stuff full time showed this one to be about a 10 degree angle and about 8 db gain at peak angle. Which is pretty decent and it does perform quite well in real world tests. But of course there's always room for improvement. But anything more than that and there might be some pretty bad nulls on top.

1991. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 02:15:12 UTC
From: Allodoxaphobia <bit-bucket@config.com>
Message-ID: <slrngtipdg.20hp.bit-bucket@shell.config.com>
Source record: 16715

On Sun, 5 Apr 2009 14:13:35 +0100, Michael Vaia wrote:
>
> I have been out of the hobby for a while and am setting up my station.
> I'm looking for an old set of stacked 11 element yagis that were made by
> Cushcraft.

Would that be for 40M or 80M? :-\

1992. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 04:35:10 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <2EfCl.1963$6n.1205@nwrddc01.gnilink.net>
Source record: 16716

<xray66@earthlink.net> wrote in message
news:2cb27e12-5865-44bd-8bb5-7aa065a21e91@z8g2000prd.googlegroups.com...
> Thanks for the info... My main concern between my two examples was
> ease of construction I guess... After stripping the coax and throwing
> the braid and jacket away, I starting feeling like it was kind of a
> waste. Then I thought... why not just use insulated wire. But that
> would bring the element sizes up and not allow as much room for as
> many elements. Maybe two less elements, which wouldn't be huge, but it
> would be a difference in specs. One version is 10 half wave elements
> using a 78 VF center conductor in brass tube, along with a free space
> 1/4 on the bottom and one on the top. No short at the top as my tests
> showed this actually lowered performance. I actually am not sure why.
> Independent tests done by a reputable company that does this stuff
> full time showed this one to be about a 10 degree angle and about 8 db
> gain at peak angle. Which is pretty decent and it does perform quite
> well in real world tests. But of course there's always room for
> improvement. But anything more than that and there might be some
> pretty bad nulls on top.

Hi Dave
Again, opinion --
It is really difficult to gt a 4 or 5 wavelength long colinear antenna to
work as well as the modeling predicts.

Have you modeled the antenna you plan to build?

Jerry KD6JDJ

1993. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 05:21:21 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <d47a230a-2fe4-4635-a309-295226637f7a@z16g2000prd.googlegroups.com>
Source record: 16717

On Apr 4, 9:13 pm, Tom Horne <horn...@verizon.net> wrote:
> K7ITM wrote:
> > On Apr 3, 9:38 pm, Tom Horne <horn...@verizon.net> wrote:
> >> I realize this may be a terribly basic question but at any given
> >> transmitter power will the highest current measured in the antenna feed
> >> line occur at the lowest SWR or not.
> >> --
> >> Tom Horne
> >
> >> "This alternating current stuff is just a fad. It is much too dangerous
> >> for general use." Thomas Alva Edison
> >
> > At the lowest SWR, 1:1, the steady-state RMS current along a lossless
> > transmission line is everywhere the same. At high SWR, the steady-
> > state RMS current along a lossless line varies between some high value
> > and some low value; the SWR is the ratio of the high value over the
> > low value, assuming the line is long enough that you won't find higher
> > or lower by extending the length of the line.
> >
> > If the antenna feedpoint impedance is, say, 10 ohms and you feed it
> > 100 watts, you should measure sqrt(10) amps at the feedpoint. You'd
> > have a 5:1 SWR on a 50 ohm line with that load. With a 250 ohm load,
> > you'd also have a 5:1 SWR on the same line, but the current at the
> > antenna end for 100 watts delivered to the antenna would be sqrt(0.4)
> > amps, or 1/5 as much current. If the antenna represents a 50 ohm load
> > on the same 50 ohm line (swr = 1:1), the current is sqrt(2) amps for
> > 100 watts, an intermediate value.
> >
> > Hope that helps (and that I haven't screwed up my mental arithmetic).
> >
> > Cheers,
> > Tom
> >
> Tom
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> If you have the patience please bare with me as I'm hoping to learn
> something here. I was trying to figure out what use if any could be
> made of a current measuring device located at the antenna feed point.
> What relationship would there be between maximum current at the feed
> point and affective radiated power. I've been told in both my license
> preparation classes that making sure that the transmitter sees a low SWR
> does not insure a good signal out of the antenna. I'm looking for some
> way to actually measure the amount of energy that is getting to the
> antenna since it seams impractical to measure the signal strength in the

> near or far fields during operation of the transmitter.
>
> --
> Tom Horne
>
> "This alternating current stuff is just a fad. It is much too dangerous
> for general use." Thomas Alva Edison

Hi Tom,

Well, addressing one of your last points first...it's really not so difficult to monitor the strength of your signal, at least in a relative way, with a simple field-strength meter. Especially if you are using a fixed (non-rotating) antenna, and assuming the antenna's response doesn't vary too drastically with frequency, a field strength meter fed from a fixed antenna (always in the same position) can be a help: you can tune the transmitter for maximum field strength, and you can check that the field strength stays reasonably constant from one day to the next.

As Owen pointed out, measuring the current at the antenna feedpoint is a reasonable way to monitor the power fed to the antenna. So long as the resistive part of the feedpoint impedance is constant, higher current means more power fed to the antenna. For most "full-size" antennas, most of the power fed to the antenna is radiated, and anyway, the ratio of power radiated to power dissipated as heat should remain essentially constant, so the more power fed to the antenna, the more power radiated. It's common for AM broadcast stations to monitor their output power using an RF ammeter at the base of the antenna tower (at the feedpoint), with the feedpoint impedance having been measured accurately so that the power can be calculated (I^2 * R).

Many (most?) modern transmitters operate at maximum power output into a very limited range of impedances, typically 50 ohms, so there's often an incentive to make the SWR on a 50 ohm line connected to the transmitter output be low. However, you can put an "antenna tuner" between the transmitter output and the antenna feedline to transform the impedance seen at the input to the antenna feedline into something close to 50 ohms, if it isn't already. Perhaps your transmitter or transceiver already has an antenna tuner built in.

But also, please note that you can't use antenna feedpoint current to compare between two different antennas, unless you know the feedpoint impedance of each antenna, since the power depends on not only the current, but also on the resistive part of the feedpoint impedance. Power = resistance times (current squared). Even then, there's the possibility that one antenna is significantly less efficient than the other, and you have to take that into account, too, if you are interested in power actually radiated. That would be true, for example, for antennas that are very small compared with a wavelength: for example, for a mobile antenna for 3.9MHz. There are other factors to consider, too, like directionality and polarization and just what

it is that you're trying to accomplish (where the station on the other end is, and what the propagation is like between that station and yours).

You can go into a lot more depth about all this if you want. You should be able to find some good books about antennas and how to feed them. I'm not very current on what's good in this area; maybe some others will post some practical references.

Cheers,
Tom

1994. bape long sleeve products,boss woman,boss man,(www.trade8.cc)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 08:09:59 UTC
From: "rabbitwood40@gmail.com" <rabbitwood40@gmail.com>
Message-ID: <8152b97d-b495-43aa-a106-98a78d3ee31d@r31g2000prh.googlegroups.com>
Source record: 16718

China armani t shirt, China armani long sleeve, armani t shirt products, armani long,armani long sleeve manufacturers directory - over 3000000 registered importers and exporters. armani long sleeve manufacturers, armani long sleeve suppliers wholesale bape,BAPE man,BAPE woman,BAPE long sleeve,BAPE wholesaler,wholesale BAPE,cheap BAPE,discount BAPE,bape long sleeve products directory - over 8000000 importers and exporters from China and around the world, bape long sleeve, bape long sleeve products,boss woman,boss man,(www.trade8.cc)

1995. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 11:31:38 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <lElCl.16073$D32.6487@flpi146.ffdc.sbc.com>
Source record: 16719

xray66@earthlink.net wrote:
> Thanks for any opinions,

The velocity factor of a transmission line applies
to the differential transmission line currents which
don't do much of the radiating.

It's the common-mode currents that do most of the
radiating and the transmission line velocity factor
does not apply to common-mode currents.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

1996. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 19:51:43 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <9b6a34a7-9578-4660-b4f0-5cf02e3ee862@z14g2000yqa.googlegroups.com>
Source record: 16720

On Apr 5, 2:36 pm, xra...@earthlink.net wrote:
> I always assumed having more 1/2 elements in a collinear was best,
> because that obviously raises gain and lowers angle. So from that
> point of view, I was thinking that it would actually be better to use
> a low VF coax, since that would give you shorter length elements, thus
> being able to fit more elements in a shorter space. But I've also read
> that having the element lengths closer to actual 1/2 length (longer)
> is actually more efficient than having more elements at a shorter (low
> VF) length. Just wondering what people's opinion is on this... So lets
> say you have a choice between using the insulated center conductor of
> a VF 78 coax through brass tube outer elements and having room for a
> few extra elements in a given length, verses using just an insulated
> wire that has a 99 VF through brass tube outer elements, thereby
> allowing slightly less elements because they're longer, but the
> elements you do have are closer to actual 1/2 length. Which would be
> best? And this is basically various UHF bands we're talking about.
>
> Thanks for any opinions,
>
> Dave

So, why don't you do some modelling and see? I predict (having done it myself) that you'll discover that the gain is pretty close to proportional to length, independent of how many sections are used, at least for practical velocity factors. In fact, you can optimize the gain a bit by picking the VF, but it's not a big deal. What's important here is how the mutual impedances among the elements affects the current distribution on the elements, NOT how many elements you have. Ideally, you'll end up with something close to the same current, in-phase, at the center of each element; what you're liable to see in a long antenna (say 10 elements) with moderate or low VF is that one element out near each end will have a much lower current than the rest. The effect of that on the pattern is probably less than you'd have guessed.

The other thing that the free-space length of the elements will affect is the feedpoint impedance. I'd suggest, again, that you model it to make sure the net impedance of the paralleled feedpoints is something you don't mind matching to.

Cheers,
Tom

1997. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 21:50:16 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE64FBB41484nonenowhere@61.9.191.5>
Source record: 16721

K7ITM <k7itm@msn.com> wrote in news:9b6a34a7-9578-4660-b4f0-5cf02e3ee862
@z14g2000yqa.googlegroups.com:

> The other thing that the free-space length of the elements will affect
> is the feedpoint impedance. I'd suggest, again, that you model it to
> make sure the net impedance of the paralleled feedpoints is something
> you don't mind matching to.
>

An interesting point. I cannot recall any of the online articles
discussing feedpoint Z, and by assumption it is 50+j0... but that doesn't
happen by accident.

Here is a deck for 8 halfwaves at 435MHz with a single stub tuner.

```
CM 8 half waves coaxial collinear on 435MHz
CM Assumes lossline TL, VF=0.667, effective choke at bottom of array.
CM Matched to 50 ohms with single stub tuner.
CM Owen Duffy 2009/04/05
CE
GW 2 20 0 0 -0.23383 0 0 0 0.0045
GW 3 20 0 0 -0.46766 0 0 -0.23383 0.0045
GW 4 20 0 0 -0.70149 0 0 -0.46766 0.0045
GW 5 20 0 0 -0.93532 0 0 -0.70149 0.0045
GW 6 20 0 0 -1.16915 0 0 -0.93532 0.0045
GW 7 20 0 0 -1.40298 0 0 -1.16915 0.0045
GW 8 20 0 0 -1.63681 0 0 -1.40298 0.0045
GW 9 10 0 0 -1.87064 0 0 -1.63681 0.0045
GW 200 1 -0.01 0 -2.25634 0.01 0 -2.25634 0.001
GW 201 1 -0.01 0 -2.35634 0.01 0 -2.35634 0.001
GE 0
GN -1
EK
EX 0 200 1 1 0
TL 3 1 2 1 -50 0.350745 0 0 0 0
TL 4 1 3 1 -50 0.350745 0 0 0 0
TL 5 1 4 1 -50 0.350745 0 0 0 0
TL 6 1 5 1 -50 0.350745 0 0 0 0
TL 7 1 6 1 -50 0.350745 0 0 0 0
TL 8 1 7 1 -50 0.350745 0 0 0 0
TL 200 1 8 1 50 0.42855 0 0 0 0
TL 200 1 201 1 50 0.0837 0 0 1e99 0
FR 0 0 0 0 435 0
XQ
EN
```

The antenna bandwidth is quite narrow as might be expected from so many resonant lengths.

It reaches about 7.8dBi gain, well short of the much touted 9dBd or 11.2dBi.

Owen

1998. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 21:58:53 UTC
From: Dave <noone@nowhere.com>
Message-ID: <xWuCl.2062$Q52.753@nwrddc02.gnilink.net>
Source record: 16722

"Allodoxaphobia" <bit-bucket@config.com> wrote in message
news:slrngtipdg.20hp.bit-bucket@shell.config.com...
> On Sun, 5 Apr 2009 14:13:35 +0100, Michael Vaia wrote:
>>
>> I have been out of the hobby for a while and am setting up my station.
>> I'm looking for an old set of stacked 11 element yagis that were made by
>> Cushcraft.
>
> Would that be for 40M or 80M? :-\

if i remember right they were for 160m.

1999. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 22:32:08 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <grdvtb$2pb$1@news.service.uci.edu>
Source record: 16723

Cecil Moore wrote:
> Jim Kelley wrote:
>> Refer to a table of sines and observe the two things which vary
>> throughout the period of any sinusoidal wave. One of them is
>> amplitude. What would you prefer I call the other one?
>
> Did you not understand what Gene Fuller said?

Somebody once made a claim about answering a question with a question.
He said that it was a means of diversion. Clearly that is the case.

It's no coincidence that the phase of the standing wave varies by 90
degrees along the length of a 90 degree standing wave antenna.

ac6xg

2000. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 22:41:12 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE6585DC4ECCnonenowhere@61.9.191.5>
Source record: 16724

Owen Duffy <none@no.where> wrote in
news:Xns9BE64FBB41484nonenowhere@61.9.191.5:

...
> Here is a deck for 8 halfwaves at 435MHz with a single stub tuner.
...

Ouch, that had some remanents of a matching scheme using RG62. Here is a
better deck.

```
CM 8 half waves coaxial collinear on 435MHz
CM Assumes lossline TL, VF=0.667, effective choke at bottom of array.
CM Matched to 50 ohms with single stub tuner.
CM Owen Duffy 2009/04/05
CE
GW 2 20 0 0 -0.229885 0 0 0 0.0045
GW 3 20 0 0 -0.45977 0 0 -0.229885 0.0045
GW 4 20 0 0 -0.689655 0 0 -0.45977 0.0045
GW 5 20 0 0 -0.91954 0 0 -0.689655 0.0045
GW 6 20 0 0 -1.149425 0 0 -0.91954 0.0045
GW 7 20 0 0 -1.37931 0 0 -1.149425 0.0045
GW 8 20 0 0 -1.609195 0 0 -1.37931 0.0045
GW 9 10 0 0 -1.83908 0 0 -1.609195 0.0045
GW 200 1 -0.01 0 -2.25308 0.01 0 -2.25308 0.001
GW 201 1 -0.01 0 -2.35308 0.01 0 -2.35308 0.001
GE 0
GN -1
EK
EX 0 200 1 1 0
TL 3 1 2 1 -50 0.3448276 0 0 0 0
TL 4 1 3 1 -50 0.3448276 0 0 0 0
TL 5 1 4 1 -50 0.3448276 0 0 0 0
TL 6 1 5 1 -50 0.3448276 0 0 0 0
TL 7 1 6 1 -50 0.3448276 0 0 0 0
TL 8 1 7 1 -50 0.3448276 0 0 0 0
TL 200 1 8 1 50 0.471 0 0 0 0
TL 200 1 201 1 50 0.0855 0 0 1e99 0
FR 0 0 0 0 435 0
RP 0 361 1 1000 -180 0 1
```

The coax half wave sections are exactly a half wave (electrically).

Owen

2001. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-06 23:55:31 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <GYadnSeOY6qvFUfUnZ2dnUVZ_omdnZ2d@earthlink.com>
Source record: 16725

"Michael Vaia" <Michael.Vaia.41e8e0e@radiobanter.com> wrote in message
news:Michael.Vaia.41e8e0e@radiobanter.com...
>
> Hi,
>
> I have been out of the hobby for a while and am setting up my station.
> I'm looking for an old set of stacked 11 element yagis that were made by
> Cushcraft. If you have something in reasonable shape at a reasonable
> price, drop me an email at W8ABC@qsl.net I'm in Maryland by the way
> and am happy to pick them up if they are not too far.
>
> Michael

Not to get into a heated discussion, but why do you want the stacked 11
elements. There are much beter single antennas out now with the more modern
design. I never ran a stacked pair, but I never got a single 11 element CC
to give as much gain as some other single antennas of around the same boom
length. That was for the 2 meter, 220 and 440 mhz versions.

2002. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 03:16:06 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <64ea3fe9-d99b-4897-bf85-bc17e9ef284b@v19g2000yqn.googlegroups.com>
Source record: 16726

On Apr 6, 7:55 pm, "Ralph Mowery" <rmowery28...@earthlink.net> wrote:
> "Michael Vaia" <Michael.Vaia.41e8...@radiobanter.com> wrote in message
>
> news:Michael.Vaia.41e8e0e@radiobanter.com...
>
>
>
> > Hi,
>
> > I have been out of the hobby for a while and am setting up my station.
> > I'm looking for an old set of stacked 11 element yagis that were made by
> > Cushcraft. If you have something in reasonable shape at a reasonable
> > price, drop me an email at W8...@qsl.net I'm in Maryland by the way
> > and am happy to pick them up if they are not too far.
>
> > Michael
>
> Not to get into a heated discussion, but why do you want the stacked 11
> elements. There are much beter single antennas out now with the more modern
> design. I never ran a stacked pair, but I never got a single 11 element CC
> to give as much gain as some other single antennas of around the same boom
> length. That was for the 2 meter, 220 and 440 mhz versions.

I bought a single 147 -11 at a hamfest a few years ago and I was
disapointed in its performance. It didnt do as well as my 6 element
quad. I bought the antenna hoping to make better contact with a friend
who lives just barely in range when I am using my quad but contact was
even worse with this antenna. I understand this was a used antenna but
I think I restored it to near new condition. It is my opinion that the
problem may be in the gamma match and I have considered modifying it
into a Quagi to see if this improves the performance.

The manual on this antenna is so good if someone wanted one bad enough
they could build one from the drawings in the manual almost as easily
as assembling one out of the box.

Jimmie

2003. Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 06:05:01 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/recruitment-1-1239084301@panix.com>
Source record: 16727
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team. We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.
```

2004. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 08:55:09 UTC
From: ukmonitor@hotmail.com
Message-ID: <708cd785-f5ce-495b-bf00-d0a30548da02@q16g2000yqg.googlegroups.com>
Source record: 16728

```
On Apr 6, 11:41 pm, Owen Duffy <n...@no.where> wrote:
> Owen Duffy <n...@no.where> wrote innews:Xns9BE64FBB41484nonenowhere@61.9.191.5:
>
> ...> Here is a deck for 8 halfwaves at 435MHz with a single stub tuner.
>
> ...
>
> Ouch, that had some remanents of a matching scheme using RG62. Here is a
> better deck.
>
> CM 8 half waves coaxial collinear on 435MHz
> CM Assumes lossline TL, VF=0.667, effective choke at bottom of array.
> CM Matched to 50 ohms with single stub tuner.
> CM Owen Duffy 2009/04/05
> CE
> GW 2 20 0 0 -0.229885 0 0 0 0.0045
> GW 3 20 0 0 -0.45977 0 0 -0.229885 0.0045
> GW 4 20 0 0 -0.689655 0 0 -0.45977 0.0045
> GW 5 20 0 0 -0.91954 0 0 -0.689655 0.0045
> GW 6 20 0 0 -1.149425 0 0 -0.91954 0.0045
> GW 7 20 0 0 -1.37931 0 0 -1.149425 0.0045
> GW 8 20 0 0 -1.609195 0 0 -1.37931 0.0045
> GW 9 10 0 0 -1.83908 0 0 -1.609195 0.0045
> GW 200 1 -0.01 0 -2.25308 0.01 0 -2.25308 0.001
> GW 201 1 -0.01 0 -2.35308 0.01 0 -2.35308 0.001
> GE 0
> GN -1
> EK
> EX 0 200 1 1 0
> TL 3 1 2 1 -50 0.3448276 0 0 0 0
> TL 4 1 3 1 -50 0.3448276 0 0 0 0
> TL 5 1 4 1 -50 0.3448276 0 0 0 0
> TL 6 1 5 1 -50 0.3448276 0 0 0 0
> TL 7 1 6 1 -50 0.3448276 0 0 0 0
> TL 8 1 7 1 -50 0.3448276 0 0 0 0
> TL 200 1 8 1 50 0.471 0 0 0 0
> TL 200 1 201 1 50 0.0855 0 0 1e99 0
> FR 0 0 0 0 435 0
> RP 0 361 1 1000 -180 0 1
>
> The coax half wave sections are exactly a half wave (electrically).
>
> Owen
```

Isn't there an inherent problem with this design when using coax sections wich have a velocity factor which differs from that of free space ?

The alternating sections rely on radiation from the outer (common mode) and a phase shift occuring along the inner (differential mode subject to the coax VF).

Because of this mismatch the cumulative phase error along the length of the antenna will result in it only being close to the required phase shifts over the first few sections. Hence the gain reduction as more sections are added.

To work properly the coax sections would need to be air spaced.

UKM

2005. Re: vertical antenna loading coil vs toroid

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 10:05:39 UTC
From: vo1bbn@gmail.com
Message-ID: <5dcfa870-13d8-424d-a441-5da045c1aa6b@z14g2000yqa.googlegroups.com>
Source record: 16729

On Apr 4, 1:30 pm, j...@specsol.spam.sux.com wrote:
> vo1...@gmail.com wrote:
> > On Apr 4, 12:15 am, j...@specsol.spam.sux.com wrote:
> >> vo1...@gmail.com wrote:
> >> > On Apr 3, 10:30 pm, j...@specsol.spam.sux.com wrote:
> >> >> vo1...@gmail.com wrote:
> >> >> > On Apr 3, 8:22 am, Cecil Moore <nos...@w5dxp.com> wrote:
> >> >> >> vo1...@gmail.com wrote:
> >> >> >> > Did you ever try to model a resonator where the coil required is
> >> >> >> > actually longer than the insulator, so that the vertical part of the
> >> >> >> > resonator is actually inside the coil , ...
>
> >> >> >> Never modeled it but have seen its effects during
> >> >> >> 75m mobile shootouts. One fellow had a hamstick
> >> >> >> with the stinger bottom extending down into the
> >> >> >> hamstick loading coil. It was a very lossy
> >> >> >> condition which improved when he hack-sawed the
> >> >> >> excess stinger off.
>
> >> >> >> Do you have EZNEC? If so, I can modify a helical
> >> >> >> loading coil to extend the stinger into the middle
> >> >> >> of the coil and send the file to you.
>
> >> >> >> Conductors within the loading coil field lower
> >> >> >> the effective coil Q. However, I have had good
> >> >> >> luck with a 1.25" fiberglass pipe running through
> >> >> >> the center of the coil providing mechanical
> >> >> >> support. Perhaps you could consider swapping your
> >> >> >> insulator for a piece of fiberglass pipe or rod.
> >> >> >> --
> >> >> >> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> >> >> > I have the top portion of the antenna put togather, ready to go up in
> >> >> > the next couple of days depending on wx, after I got it put together I
> >> >> > realized that when I got the toroids I was only concerned about 40 &
> >> >> > 80M, and then wanted 160M, should these be some what acceptable on
> >> >> > 160M with 100watts Their red on the inner, outer, and top, the bottom
> >> >> > is some color of a green or brown. It measures very close to 26mm
> >> >> > outside,15mm inside and 10mm high. No markings what soever. Any
> >> >> > thoughts on if it should work or not. thanks 73, brett
>
> >> >> They aren't usually color coded on the "bottom".
>
> >> >> If they are iron-powder, red is material #2, which is good for .5 Mhz

> >> >> to 10 Mhz.
>
> >> >> The size seems closest to T-106, which in inches is 1.060 X 0.570 X 0.437.
>
> >> >> You can find all the specs, charts, etc. at:
>
> >> >>https://www.amidoncorp.com/
>
> >> >> --
> >> >> Jim Pennino
>
> >> >> Remove .spam.sux to reply.
>
> >> > Thanks for the link to the info on the color codes , I have the red
> >> > one in the antenna right now ,I was going to test soon, According to
> >> > the document on the link, the red toroid spec is 2-30mhz but blue
> >> > toroid spec is .5-5mhz.
> >> > The blue one I have is close to 25mmOD   11mmID   10mmHigh. I'll redo
> >> > the blue toroid for the inductance I need before I waste my time with
> >> > the red one Thanks again 73,brett
>
> >> Yeah, the numbers I quoted are from some old data sheets I have for
> >> some torroids I have.
>
> >> For whatever reason, some of the numbers are different on their web
> >> site.
>
> >> I have no clue if that's because the product changed over the years
> >> or the old sheets were wrong.
>
> >> YMMV.
>
> >> --
> >> Jim Pennino
>
> >> Remove .spam.sux to reply.
>
> > I removed the red toroid from the vertical and replaced it with a blue
> > one, I'm hoping to get this thing up today to see how it performs.
> > I'll do some tests on it for a couple of weeks then maybe try the red
> > toroid anyway to see if it too will work.From the specs I found red
> > being 2-30mhz and blue 0.5-5mhz it seems obvious that the blue one is
> > the better choice for 160 but not a good choice for 40M. And vice
> > versa the red one better for 40 but a good choice for 160. I will to
> > to find out more info on color code and material type, I also have a
> > couple of type 43 binocular core very small black ones, that a fellow
> > ham gave me, they measure about 15mm long X 11mm wide X 7mm thick the
> > two holes are about 7mm center to center and 4mm in diameter. I used
> > these on rx antennas, one wound 9:1 for an EWE and another 4:1 for
> > loop, would these possibly work for tx with 100w or less on 160-40M

> > They seem to work very well on rx for that freq range. Thanks again,
> > 73, brett
>
> My gut feel is either core will "work" and that unless you have access
> to some lab grade equipment, you won't see any performance difference
> between the two.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

I tried the blue toroid after being made aware of the color code.I seemed to be ok regards to swr and forward power levels, however I tried it in the SPDX contest and it was a flop , 0 contacts on vertical for 80M, where I made some contacts on a dipole at 25 feet. I will try it for another week or so as I am busy with work and not able to do much work on my antenna just yet.Maybe due to propagation, but dipole at 25 feet better than vertical for dx on 80M, boggles me. Thanks again, 73 brett

2006. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 11:20:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <KFGCl.11702$jZ1.595@flpi144.ffdc.sbc.com>
Source record: 16730

Jim Kelley wrote:
> It's no coincidence that the phase of the standing wave varies by 90
> degrees along the length of a 90 degree standing wave antenna.

But it doesn't, Jim. Both Kraus and EZNEC agree that
standing wave current phase varies by only ~3 degrees
over the entire length of a 180 degree wire dipole
(referenced to the phase at the feedpoint).

If you slide a current probe up and down a 1/2WL wire
dipole, you will find that the phase referenced to
the phase at the feedpoint barely changes and cannot
be used to determine position on the dipole. The
position along the dipole is contained in the amplitude.
The ARCCOS of the relative amplitude will yield the
position along the dipole.

Please read what Gene Fuller said:

> Gene Fuller, W4SZ wrote:
>> In a standing wave antenna problem, such as the one you describe,
>> there is no remaining phase information. Any specific phase
>> characteristics of the traveling waves died out when the startup
>> transients died out.
>>
>> Phase is gone. Kaput. Vanished. Cannot be recovered. Never to be
>> seen again.
>>
>> The only "phase" remaining is the cos (kz) term, which is really
>> an amplitude description, not a phase.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2007. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 12:38:06 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <MOHCl.3742$im1.237@nlpi061.nbdc.sbc.com>
Source record: 16731

Jim Kelley wrote:
> It's no coincidence that the phase of the standing wave varies by 90
> degrees along the length of a 90 degree standing wave antenna.

Here's the phase of the standing wave along 90 degrees
of monopole as reported by EZNEC. Clearly, your assertion
is false as the current phase varies by only 2.62 degrees
between segment 1 and segment 10.

1/4WL Vertical over real gnd 4/7/2009 7:33:02 AM
--------------- CURRENT DATA ---------------
Frequency = 7.2 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97418 -0.40
3 .92577 -0.80
4 .85611 -1.14
5 .76657 -1.44
6 .65894 -1.71
7 .53532 -1.96
8 .39796 -2.20
9 .24889 -2.42
10 Open .08785 -2.62

--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2008. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 12:51:47 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <P%HCl.125781$rp7.5569@en-nntp-02.dc1.easynews.com>
Source record: 16732

JIMMIE wrote:
> On Apr 6, 7:55 pm, "Ralph Mowery" <rmowery28...@earthlink.net> wrote:
>> "Michael Vaia" <Michael.Vaia.41e8...@radiobanter.com> wrote in message
>>
>> news:Michael.Vaia.41e8e0e@radiobanter.com...
>>
>>
>>
>>> Hi,
>>> I have been out of the hobby for a while and am setting up my station.
>>> I'm looking for an old set of stacked 11 element yagis that were made by
>>> Cushcraft. If you have something in reasonable shape at a reasonable
>>> price, drop me an email at W8...@qsl.net I'm in Maryland by the way
>>> and am happy to pick them up if they are not too far.
>>> Michael
>> Not to get into a heated discussion, but why do you want the stacked 11
>> elements. There are much beter single antennas out now with the more modern
>> design. I never ran a stacked pair, but I never got a single 11 element CC
>> to give as much gain as some other single antennas of around the same boom
>> length. That was for the 2 meter, 220 and 440 mhz versions.
>
> I bought a single 147 -11 at a hamfest a few years ago and I was
> disapointed in its performance. It didnt do as well as my 6 element
> quad. I bought the antenna hoping to make better contact with a friend
> who lives just barely in range when I am using my quad but contact was
> even worse with this antenna. I understand this was a used antenna but
> I think I restored it to near new condition. It is my opinion that the
> problem may be in the gamma match and I have considered modifying it
> into a Quagi to see if this improves the performance.
>
> The manual on this antenna is so good if someone wanted one bad enough
> they could build one from the drawings in the manual almost as easily
> as assembling one out of the box.
>
> Jimmie

Who makes the quad?

I'm in the market for VHF antenna(s) to put on mast above a tri-bander
on a 50' tower.

Marv
W5MTV

2009. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 13:34:42 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <dcce51fe-1456-4d19-8d0e-32c61160bf56@z9g2000yqi.googlegroups.com>
Source record: 16733

On Apr 7, 8:51 am, MTV <volztexas...@comcast.net> wrote:
> JIMMIE wrote:
> > On Apr 6, 7:55 pm, "Ralph Mowery" <rmowery28...@earthlink.net> wrote:
> >> "Michael Vaia" <Michael.Vaia.41e8...@radiobanter.com> wrote in message
>
> >>news:Michael.Vaia.41e8e0e@radiobanter.com...
>
> >>> Hi,
> >>> I have been out of the hobby for a while and am setting up my station.
> >>> I'm looking for an old set of stacked 11 element yagis that were made by
> >>> Cushcraft. If you have something in reasonable shape at a reasonable
> >>> price, drop me an email at W8...@qsl.net I'm in Maryland by the way
> >>> and am happy to pick them up if they are not too far.
> >>> Michael
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> > I bought a single 147 -11 at a hamfest a few years ago and I was
> > disapointed in its performance. It didnt do as well as my 6 element
> > quad. I bought the antenna hoping to make better contact with a friend
> > who lives just barely in range when I am using my quad but contact was
> > even worse with this antenna. I understand this was a used antenna but
> > I think I restored it to near new condition. It is my opinion that the
> > problem may be in the gamma match and I have considered modifying it
> > into a Quagi to see if this improves the performance.
>
> > The manual on this antenna is so good if someone wanted one bad enough
> > they could build one from the drawings in the manual almost as easily
> > as assembling one out of the box.
>
> > Jimmie
>
> Who makes the quad?
>
> I'm in the market for VHF antenna(s) to put on mast above a tri-bander
> on a 50' tower.
>
> Marv
> W5MTV- Hide quoted text -
>
> - Show quoted text -

I did, a two meter quad is just too easy to make. There are plans galore for them.

Jimmie

2010. Phillystran guy cable material?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 15:53:36 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <iGKCl.99570$UR4.52684@en-nntp-09.dc1.easynews.com>
Source record: 16734

Any clues on how much better this nonmetallic guy material would be than equivalent wire rope? How much effect would it have on an HF yagi at the top of tower up 2-3' on a mast? Would it be worth an extra $50 plus special end kits?

Also, should wire rope guys be insulated from attachment to the tower?

This is my first tower, a Glen Martin w/Hazer.

Marv
W5MTV

2011. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 16:48:18 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <6b7e3a45-f7f8-4c07-87f3-d1a9f217ac28@g19g2000yql.googlegroups.com>
Source record: 16735

```
On Apr 7, 1:55 am, ukmoni...@hotmail.com wrote:
> On Apr 6, 11:41 pm, Owen Duffy <n...@no.where> wrote:
>
>
>
> > Owen Duffy <n...@no.where> wrote innews:Xns9BE64FBB41484nonenowhere@61.9.191.5:
>
> > ...> Here is a deck for 8 halfwaves at 435MHz with a single stub tuner.
>
> > ...
>
> > Ouch, that had some remanents of a matching scheme using RG62. Here is a
> > better deck.
>
> > CM 8 half waves coaxial collinear on 435MHz
> > CM Assumes lossline TL, VF=0.667, effective choke at bottom of array.
> > CM Matched to 50 ohms with single stub tuner.
> > CM Owen Duffy 2009/04/05
> > CE
> > GW 2 20 0 0 -0.229885 0 0 0 0.0045
> > GW 3 20 0 0 -0.45977 0 0 -0.229885 0.0045
> > GW 4 20 0 0 -0.689655 0 0 -0.45977 0.0045
> > GW 5 20 0 0 -0.91954 0 0 -0.689655 0.0045
> > GW 6 20 0 0 -1.149425 0 0 -0.91954 0.0045
> > GW 7 20 0 0 -1.37931 0 0 -1.149425 0.0045
> > GW 8 20 0 0 -1.609195 0 0 -1.37931 0.0045
> > GW 9 10 0 0 -1.83908 0 0 -1.609195 0.0045
> > GW 200 1 -0.01 0 -2.25308 0.01 0 -2.25308 0.001
> > GW 201 1 -0.01 0 -2.35308 0.01 0 -2.35308 0.001
> > GE 0
> > GN -1
> > EK
> > EX 0 200 1 1 0
> > TL 3 1 2 1 -50 0.3448276 0 0 0 0
> > TL 4 1 3 1 -50 0.3448276 0 0 0 0
> > TL 5 1 4 1 -50 0.3448276 0 0 0 0
> > TL 6 1 5 1 -50 0.3448276 0 0 0 0
> > TL 7 1 6 1 -50 0.3448276 0 0 0 0
> > TL 8 1 7 1 -50 0.3448276 0 0 0 0
> > TL 200 1 8 1 50 0.471 0 0 0 0
> > TL 200 1 201 1 50 0.0855 0 0 1e99 0
> > FR 0 0 0 0 435 0
> > RP 0 361 1 1000 -180 0 1
>
```

> > The coax half wave sections are exactly a half wave (electrically).
>
> > Owen
>
> Isn't there an inherent problem with this design when using coax
> sections wich have a velocity factor which differs from that of free
> space ?
>
> The alternating sections rely on radiation from the outer (common
> mode) and a phase shift occuring along the inner (differential mode
> subject to the coax VF).
>
> Because of this mismatch the cumulative phase error along the length
> of the antenna will result in it only being close to the required
> phase shifts over the first few sections. Hence the gain reduction as
> more sections are added.
>
> To work properly the coax sections would need to be air spaced.
>
> UKM

So, consider this: with lossless transmission line and each section of transmission line being an electrical half-wave long, the VOLTAGE between adjacent ends of any two sections is identically the same (including being in phase). So every feedpoint -- that is, every gap between sections -- is fed with the same in-phase voltage. Practical feedlines come pretty close to that lossless ideal, short as they are. (You can model this quite accurately to see just what the variation in feedpoint voltages is along the array.)

That does not guarantee that the currents on all sections are in phase, nor does it guarantee that they are the same magnitude, but the simulations I've run tell me that they are pretty close to being in phase. It's really not so important that they be all the same magnitude. Were it not for mutual impedances among the elements, having identical feedpoint voltages would yield the same current on each section (except the very end sections, which don't have a feedpoint connection at their outer ends).

I note that Owen has reported some different results (larger current phase differences than I recall seeing), and if I can find time, I'd like to explore those with him, but at the moment I'm tied up with other things.

Cheers,
Tom

2012. Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 19:02:28 UTC
From: Emanuele Colucci <emack@gameprog.it>
Message-ID: <49dba347$0$1120$4fafbaef@reader2.news.tin.it>
Source record: 16736

Hi there,
this is my first post here, hope not being off topic :)
I was asking myself if there were resources over the net that cover the
development of a cassegrain antenna [from the design up to the building]
in a homebrew fashion.

Thank you for paying attention towards this mail :)

Bye bye

Emanuele Colucci
emack@gameprog.it

PS. I already posted this message to rec.radio.amateur.homebrew, but a
user suggested to me to post it here too.

2013. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 20:23:50 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BE74114060B2nonenowhere@61.9.191.5>
Source record: 16737

K7ITM <k7itm@msn.com> wrote in
news:6b7e3a45-f7f8-4c07-87f3-d1a9f217ac28@g19g2000yql.googlegroups.com:

...
> I note that Owen has reported some different results (larger current
> phase differences than I recall seeing), and if I can find time, I'd
> like to explore those with him, but at the moment I'm tied up with
> other things.

Tom,

The models I offered (and they are very similar) do have fairly good
cophase operation.

My comment earlier was that some designs aren't nearly as good, although it
seems to degrade gain by only a small amount (though giving rise to more
and narrower lobes).

In your own time...

73
Owen

2014. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 20:34:12 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <grgdc5$q1t$1@news.service.uci.edu>
Source record: 16738

Cecil Moore wrote:
> Jim Kelley wrote:
>> It's no coincidence that the phase of the standing wave varies by 90
>> degrees along the length of a 90 degree standing wave antenna.
>
> But it doesn't, Jim. Both Kraus and EZNEC agree that
> standing wave current phase varies by only ~3 degrees
> over the entire length of a 180 degree wire dipole
> (referenced to the phase at the feedpoint).

You're always trying to drag other people into your messes. So now, in addition to waves of average power and the 4th mechanism of reflection, we have waves that don't change phase. :-)

Fine business OM.

ac6xg

2015. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 21:45:19 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <QPPCl.11724$jZ1.7996@flpi144.ffdc.sbc.com>
Source record: 16739

Jim Kelley wrote:
> So now, in we have waves that don't change phase. :-)

Yes, and w7el has verified that fact either on this
newsgroup or another newsgroup. If you have EZNEC,
you can easily verify it for yourself - anyone can.

Here's what Hecht said in "Optics" regarding standing
wave phase: "It (the standing wave phasor) doesn't
rotate at all, and the resultant wave it represents
doesn't progress through space - its a standing wave."
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2016. Re: Phillystran guy cable material?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 23:08:45 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <grgme0$ro1a$1@tr22n12.aset.psu.edu>
Source record: 16741

MTV wrote:
> Any clues on how much better this nonmetallic guy material would be than
> equivalent wire rope? How much effect would it have on an HF yagi at the
> top of tower up 2-3' on a mast? Would it be worth an extra $50 plus
> special end kits?
>
> Also, should wire rope guys be insulated from attachment to the tower?
>
> This is my first tower, a Glen Martin w/Hazer.
>
>
> Marv
> W5MTV
Hi Marv:

The phillystran should be "transparent" to radio waves and should have no measurable effect on any antenna. Wire rope will have some effect on antennas. There was an report in QST some years back that had some measurements on the effects. You may be able to find it on the ARRL web site.
I think the end kits are required to install Phillystran. I don't think you can use it just like wire rope.

John Passaneau W3JXP

2017. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-07 23:22:32 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <UoSdnQ3WlpFrTEbUnZ2dnUVZ_gednZ2d@earthlink.com>
Source record: 16740

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:64ea3fe9-d99b-4897-bf85-I bought a single 147 -11 at a hamfest a few years ago and I was
disapointed in its performance. It didnt do as well as my 6 element quad. I bought the antenna hoping to make better contact with a friend who lives just barely in range when I am using my quad but contact was even worse with this antenna. I understand this was a used antenna but I think I restored it to near new condition. It is my opinion that the problem may be in the gamma match and I have considered modifying it into a Quagi to see if this improves the performance.

The manual on this antenna is so good if someone wanted one bad enough they could build one from the drawings in the manual almost as easily as assembling one out of the box.

Jimmie

>>>>>>>>>>>>>>>>>>>>>>>>>

I read in a ham magazine about 20 years ago that at an antenna measuring contest a 220 mhz CC antenna had the driven and reflector elements replaced with quad types and gave much more gain. My homebuilt 8 element Quagi from QST plans gave much more gain than a 220 CC 11 element.

2018. Re: WTB Cushcraft Stacked Eleven Yagis

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 02:00:39 UTC
From: greenhornet@cato.com
Message-ID: <ap0ot4p94ek3clh8gnjullcnip7surjb9j@4ax.com>
Source record: 16742

On Tue, 7 Apr 2009 18:22:32 -0500, "Ralph Mowery"
<rmowery28146@earthlink.net> wrote:

>
>"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
>news:64ea3fe9-d99b-4897-bf85-I bought a single 147 -11 at a hamfest a few
>years ago and I was
>disapointed in its performance. It didnt do as well as my 6 element
>quad. I bought the antenna hoping to make better contact with a friend
>who lives just barely in range when I am using my quad but contact was
>even worse with this antenna. I understand this was a used antenna but
>I think I restored it to near new condition. It is my opinion that the
>problem may be in the gamma match and I have considered modifying it
>into a Quagi to see if this improves the performance.
>
>The manual on this antenna is so good if someone wanted one bad enough
>they could build one from the drawings in the manual almost as easily
>as assembling one out of the box.
>
>Jimmie
>
>>>>>>>>>>>>>>>>>>>>>>>>>
>
>I read in a ham magazine about 20 years ago that at an antenna measuring
>contest a 220 mhz CC antenna had the driven and reflector elements replaced
>with quad types and gave much more gain. My homebuilt 8 element Quagi from
>QST plans gave much more gain than a 220 CC 11 element.
>
I built the 440 version of that Quagi and managed a 105 mile contact
using 5 watts. For a commercial quad antenna, Cubex makes a good
product: http://www.cubex.com/

2019. Phased Verticals

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 10:10:31 UTC
From: n1ix <n1ix.4222e2d@radiobanter.com>
Message-ID: <n1ix.4222e2d@radiobanter.com>
Source record: 16743

I plan to phase two cushcraft MA8040 verticals with the ability to feed them in phase or 90 degrees out of phase.
My question is does the relative elevation of the verticals make a difference? My lot has a considerable slope which will put one vertical about 8 feet (2.5 meters) lower than the other.

Dave N1IX

--
n1ix

2020. Re: Phillystran guy cable material?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 15:01:11 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <Y_2DI.9015$Gk7.5434@en-nntp-01.dc1.easynews.com>
Source record: 16744

John Passaneau wrote:
> MTV wrote:
>> Any clues on how much better this nonmetallic guy material would be
>> than equivalent wire rope? How much effect would it have on an HF yagi
>> at the top of tower up 2-3' on a mast? Would it be worth an extra $50
>> plus special end kits?
>>
>> Also, should wire rope guys be insulated from attachment to the tower?
>>
>> This is my first tower, a Glen Martin w/Hazer.
>>
>>
>> Marv
>> W5MTV
> Hi Marv:
>
> The phillystran should be "transparent" to radio waves and should have
> no measurable effect on any antenna. Wire rope will have some effect on
> antennas. There was an report in QST some years back that had some
> measurements on the effects. You may be able to find it on the ARRL web
> site.
> I think the end kits are required to install Phillystran. I don't think
> you can use it just like wire rope.
>
> John Passaneau W3JXP

Thanks!
I'll check ARRL for a report.

Marv

2021. Re: Phillystran guy cable material?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 16:14:58 UTC
From: James <jnipperxxx@nospamfdn.com>
Message-ID: <VfydnaSUz4MbUEHUnZ2dnUVZ_umdnZ2d@posted.localnet>
Source record: 16745

at one time, there was a very active and quite good user group that centered around ham towers. It seems like it was something called "towertalk", but I don't find it in my list of active groups.

If you could locate and post in that group, you would get a LOT of info....

FLASH UPDATE !!

I now recall that it is a mailing list..... you may be interested.. it is a very very good group, with lots of experienced hams on it. Here is a link for info, and how to subscribe:

http://www.contesting.com/FAQ/towertalk

good luck..

73 de Jim K4PYT

2022. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 19:35:55 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <griuauiri1@news.service.uci.edu>
Source record: 16746

Cecil Moore wrote:
> Jim Kelley wrote:
>> So now, in we have waves that don't change phase. :-)
>
> Yes, and w7el has verified that fact either on this
> newsgroup or another newsgroup. If you have EZNEC,
> you can easily verify it for yourself - anyone can.

It's absurd to talk about waves that don't change phase, Cecil. If 'it' does not change phase in some dimension, then 'it' is not a wave. Again I refer you to a table of sines.

> Here's what Hecht said in "Optics" regarding standing
> wave phase: "It (the standing wave phasor) doesn't
> rotate at all, and the resultant wave it represents
> doesn't progress through space - its a standing wave."

Hecht knew exactly what he was talking about. It's not always evident that you know exactly what Hecht is talking about.

ac6xg

2023. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 21:20:44 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <1t8Dl.16225$D32.14139@flpi146.ffdc.sbc.com>
Source record: 16747

Jim Kelley wrote:
> Cecil Moore wrote:
>> Jim Kelley wrote:
>>> So now, in we have waves that don't change phase. :-)
>>
>> Yes, and w7el has verified that fact either on this
>> newsgroup or another newsgroup. If you have EZNEC,
>> you can easily verify it for yourself - anyone can.
>
> It's absurd to talk about waves that don't change phase, Cecil. If 'it'
> does not change phase in some dimension, then 'it' is not a wave. Again
> I refer you to a table of sines.
>
>> Here's what Hecht said in "Optics" regarding standing
>> wave phase: "It (the standing wave phasor) doesn't
>> rotate at all, and the resultant wave it represents
>> doesn't progress through space - its a standing wave."
>
> Hecht knew exactly what he was talking about. It's not always evident
> that you know exactly what Hecht is talking about.
>
> ac6xg

There's not much point in arguing with Cecil, Jim. He won't stop
playing the one-note samba until he's too old to whistle the tune.
73,
Tom Donaly, KA6RUH

2024. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 22:04:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <5c9Dl.24128$Ws1.13135@nlpi064.nbdc.sbc.com>
Source record: 16748

Jim Kelley wrote:
> It's absurd to talk about waves that don't change phase, Cecil. If 'it'
> does not change phase in some dimension, then 'it' is not a wave.

Yes, my point exactly and that's what a couple of my
references say - that standing waves are not waves at
all. I'm glad that we agree that a standing wave does
not meet the definition of a wave.

"College Physics", by Bueche and Hecht:
"These ... patterns are called *standing waves*, as
compared to the propagating waves considered above.
They might better not be called waves at all, since
they do not transport energy and momentum."

"Electrical Communication", by Albert:
"Such a plot of voltage is usually referred to as a
voltage standing wave or as a *stationary wave*.
Neither of these terms is particularly descriptive
of the phenomenon. A plot of effective values of
voltage, appearing as in Fig. 6(e), *is not a wave*
in the usual sense. However, the term "standing wave"
is in widespread use."

Please contact w7el and ask him if the total current
on a 90 degree monopole changes by 90 degrees over
its length. Please tell us what he says.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2025. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 22:17:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jo9Dl.13749$hc1.10767@flpi150.ffdc.sbc.com>
Source record: 16749

Tom Donaly wrote:
> There's not much point in arguing with Cecil, Jim. He won't stop
> playing the one-note samba until he's too old to whistle the tune.

No technical content - just an ad-hominem attack.
Sometimes I feel like Galileo up against the Catholic
priests. Like Galileo, I may not live to see the
technical facts accepted by you gurus.

Tom, you cannot seriously assert that the standing wave
current changes by 90 degrees in 90 degrees of monopole
when simply mathematics proves that is not the case.

For a pure standing wave, Io*cos(kx) is the amplitude.
cos(wt) is the phase. It is obvious that the phase of
a standing wave doesn't change with (x) - it only changes
with (t). What is it about Gene Fuller previous posting
with which you disagree?

> Gene Fuller, W4SZ wrote:
>> In a standing wave antenna problem, such as the one you describe,
>> there is no remaining phase information. Any specific phase
>> characteristics of the traveling waves died out when the startup
>> transients died out.
>>
>> Phase is gone. Kaput. Vanished. Cannot be recovered. Never to be
>> seen again.
>>
>> The only "phase" remaining is the cos (kz) term, which is really
>> an amplitude description, not a phase.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2026. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 22:32:08 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <IB9DI.13750$hc1.4790@flpi150.ffdc.sbc.com>
Source record: 16750

Jim Kelley wrote:
> So now, in
> addition to the 4th mechanism of reflection, ...

Three years ago, I removed that 4th mechanism of
reflection from my energy article in favor of
"redistribution" instead of "reflection". About
a year ago, I told you that and predicted that
you would regurgitate that same old dead horse
sometime in the future. Thanks for proving me
correct in my prediction.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2027. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 23:05:31 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <eoaqt4p9k7gi1il82em4pe5gs1jid49l7m@4ax.com>
Source record: 16601

On Wed, 08 Apr 2009 17:17:50 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:
>Sometimes I feel like Galileo

A doddering pro-hominem defense by consuming a corpse's reputation as
a Nobel laxitive.

2028. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 23:18:32 UTC
From: Dave <noone@nowhere.com>
Message-ID: <chaDl.2484$6n.2115@nwrddc01.gnilink.net>
Source record: 16602

well, searching for "cassegrain antenna" with google only gives 60,400 links, searching for "cassegrain antenna design and construction" narrows it down to about 4000.

"Emanuele Colucci" <emack@gameprog.it> wrote in message news:49dba347$0$1120$4fafbaef@reader2.news.tin.it...
> Hi there,
> this is my first post here, hope not being off topic :)
> I was asking myself if there were resources over the net that cover the
> development of a cassegrain antenna [from the design up to the building]
> in a homebrew fashion.
>
> Thank you for paying attention towards this mail :)
>
> Bye bye
>
> Emanuele Colucci
> emack@gameprog.it
>
> PS. I already posted this message to rec.radio.amateur.homebrew, but a
> user suggested to me to post it here too.

2029. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-08 23:32:34 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <JuaDl.28686$ZP4.27374@nlpi067.nbdc.sbc.com>
Source record: 16603

Cecil Moore wrote:
> Tom Donaly wrote:
>> There's not much point in arguing with Cecil, Jim. He won't stop
>> playing the one-note samba until he's too old to whistle the tune.
>
> No technical content - just an ad-hominem attack.
> Sometimes I feel like Galileo up against the Catholic
> priests. Like Galileo, I may not live to see the
> technical facts accepted by you gurus.
>
> Tom, you cannot seriously assert that the standing wave
> current changes by 90 degrees in 90 degrees of monopole
> when simply mathematics proves that is not the case.
>
> For a pure standing wave, Io*cos(kx) is the amplitude.
> cos(wt) is the phase. It is obvious that the phase of
> a standing wave doesn't change with (x) - it only changes
> with (t). What is it about Gene Fuller previous posting
> with which you disagree?
>
>> Gene Fuller, W4SZ wrote:
>>> In a standing wave antenna problem, such as the one you describe,
>>> there is no remaining phase information. Any specific phase
>>> characteristics of the traveling waves died out when the startup
>>> transients died out.
>>>
>>> Phase is gone. Kaput. Vanished. Cannot be recovered. Never to be seen
>>> again.
>>>
>>> The only "phase" remaining is the cos (kz) term, which is really an
>>> amplitude description, not a phase.

Cecil,
I don't know how to break this to you, but, you're not Galileo,
not even close. You and Gene also got the formula wrong, or at least you
didn't get the complete formula for two waves passing in opposite
directions deep in the night. It's doubtful you even know what the kx
in your formula really stands for.
73,
Tom Donaly, KA6RUH

2030. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 00:27:00 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <grjfcposg1@news.service.uci.edu>
Source record: 16604

Cecil Moore wrote:
> Jim Kelley wrote:
>> So now, in addition to the 4th mechanism of reflection, ...
>
> Three years ago, I removed that 4th mechanism of
> reflection from my energy article in favor of
> "redistribution" instead of "reflection". About
> a year ago, I told you that and predicted that
> you would regurgitate that same old dead horse
> sometime in the future. Thanks for proving me
> correct in my prediction.

At least you were correct about something - all thanks to me, evidently.
:-)

ac6xg

2031. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 08:01:32 UTC
From: Emanuele Colucci <emack@gameprog.it>
Message-ID: <49ddab61$0$840$4fafbaef@reader5.news.tin.it>
Source record: 16605

Dave ha scritto:
> well, searching for "cassegrain antenna" with google only gives 60,400
> links, searching for "cassegrain antenna design and construction"
> narrows it down to about 4000.

It's April, 9th, 2009. By this date I still wonder why there are persons
so arrogant to think that who asks for advices never looked at google.

Have a nice day.

Emanuele Colucci
emack@gameprog.it

2032. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 10:35:36 UTC
From: wood@itd.nrl.navy.mil
Message-ID: <wood-0904090635360001@jbw-mac.itd.nrl.navy.mil>
Source record: 16606

In article <49dba347$0$1120$4fafbaef@reader2.news.tin.it>, Emanuele
Colucci <emack@gameprog.it> wrote:

> Hi there,
> this is my first post here, hope not being off topic :)
> I was asking myself if there were resources over the net that cover the
> development of a cassegrain antenna [from the design up to the building]
> in a homebrew fashion.
>
> Thank you for paying attention towards this mail :)
>
> Bye bye
>
> Emanuele Colucci
> emack@gameprog.it
>
> PS. I already posted this message to rec.radio.amateur.homebrew, but a
> user suggested to me to post it here too.

Hello, and while I can't point you to any specific sources I would ask why
you feel you need to use a Cassegranian feed. This complicates the design
in that you need both a parabolic main dish and a hyperbolic reflector.
Have you worked out the antenna's frequency band and required radiation
pattern/gain? Would a non-Cassegrainian feed (e.g. placing the main
radiating/receiving element on a support at the focal point of the
reflector) be viable? Sincerely, and 73s from N4GGO,

John Wood (Code 5550) e-mail: wood@itd.nrl.navy.mil
Naval Research Laboratory
4555 Overlook Avenue, SW
Washington, DC 20375-5337

2033. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 14:28:18 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <5CnDl.3878$im1.2994@nlpi061.nbdc.sbc.com>
Source record: 16607

Tom Donaly wrote:
> You and Gene also got the formula wrong, or at least you
> didn't get the complete formula for two waves passing in opposite
> directions deep in the night.

What I posted was the equation for a pure standing wave.
What you may be referring to is the omission of the
real world traveling wave component that gets radiated.
Since the radiated component amounts to only about
10% of the wave energy on a standing-wave antenna, it
can be considered to be mostly negligible. The phase
of that small traveling wave is completely swamped
by the 90% wave energy that is in the standing wave
on the 1/4WL standing-wave monopole.

The components of a pure standing wave are two equal
amplitude traveling-waves moving in opposite directions.
Their phasors are equal in magnitude and opposite in
direction of rotation.

What is the phase of the sum of two equal amplitude phasors
moving in opposite directions? Assuming each phasor has an
amplitude of 1.0, here are some points in 1/4WL:

Ifor + Iref = Itot
1.0 at 0 deg + 1.0 at 0 deg = 2.0 at 0 deg
1.0 at -15 deg + 1.0 at +15 deg = 1.9 at 0 deg
1.0 at -30 deg + 1.0 at +30 deg = 1.7 at 0 deg
1.0 at -45 deg + 1.0 at +45 deg = 1.4 at 0 deg
1.0 at -60 deg + 1.0 at +60 deg = 1.0 at 0 deg
1.0 at -75 deg + 1.0 at +75 deg = 0.5 at 0 deg
1.0 at -90 deg + 1.0 at +90 deg = 0.0 at 0 deg

In 90 degrees of wire, the phase of the total
(pure standing wave) current doesn't change.
This makes the phase of the total current on a
standing-wave antenna invalid for measuring
the delay through the wire or through a coil.

Note how the above values roughly correspond
to the current amplitude and phase distribution
on a 1/4WL monopole. From "Antennas" by Kraus:

"It is generally assumed that the current distribution
of a (thin wire dipole) is sinusoidal, and that the
phase is constant over a 1/2WL interval ..."

All illustrated on page 464 of the 3rd edition.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2034. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 15:52:06 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <GNoDl.5187$Lr6.4759@flpi143.ffdc.sbc.com>
Source record: 16608

```
Cecil Moore wrote:
> Tom Donaly wrote:
>> You and Gene also got the formula wrong, or at least you
>> didn't get the complete formula for two waves passing in opposite
>> directions deep in the night.
>
> What I posted was the equation for a pure standing wave.
> What you may be referring to is the omission of the
> real world traveling wave component that gets radiated.
> Since the radiated component amounts to only about
> 10% of the wave energy on a standing-wave antenna, it
> can be considered to be mostly negligible. The phase
> of that small traveling wave is completely swamped
> by the 90% wave energy that is in the standing wave
> on the 1/4WL standing-wave monopole.
>
> The components of a pure standing wave are two equal
> amplitude traveling-waves moving in opposite directions.
> Their phasors are equal in magnitude and opposite in
> direction of rotation.
>
> What is the phase of the sum of two equal amplitude phasors
> moving in opposite directions? Assuming each phasor has an
> amplitude of 1.0, here are some points in 1/4WL:
>
> Ifor + Iref = Itot
> 1.0 at 0 deg + 1.0 at 0 deg = 2.0 at 0 deg
> 1.0 at -15 deg + 1.0 at +15 deg = 1.9 at 0 deg
> 1.0 at -30 deg + 1.0 at +30 deg = 1.7 at 0 deg
> 1.0 at -45 deg + 1.0 at +45 deg = 1.4 at 0 deg
> 1.0 at -60 deg + 1.0 at +60 deg = 1.0 at 0 deg
> 1.0 at -75 deg + 1.0 at +75 deg = 0.5 at 0 deg
> 1.0 at -90 deg + 1.0 at +90 deg = 0.0 at 0 deg
>
> In 90 degrees of wire, the phase of the total
> (pure standing wave) current doesn't change.
> This makes the phase of the total current on a
> standing-wave antenna invalid for measuring
> the delay through the wire or through a coil.
>
> Note how the above values roughly correspond
> to the current amplitude and phase distribution
> on a 1/4WL monopole. From "Antennas" by Kraus:
>
```

> "It is generally assumed that the current distribution
> of a (thin wire dipole) is sinusoidal, and that the
> *phase is constant over a 1/2WL interval* ..."
>
> All illustrated on page 464 of the 3rd edition.

You still got it wrong. That's o.k., though. You at least
think you have it right, which is 3/10 of the battle.
73,
Tom Donaly, KA6RUH

2035. Semi rigid coax source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 18:00:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <29p1b6-1kc.ln1@mail.specsol.com>
Source record: 16609
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

Anyone know of a source for semi rigid coax in general and RG-401 in particular in hobby quantities like 3 to 6 feet?

I can find lots of places willing to sell me a 50 foot spool.

--
Jim Pennino

Remove .spam.sux to reply.

2036. Re: Semi rigid coax source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 19:55:39 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <bda6bc83-1106-41da-9ec5-0118cbbacf29@u8g2000yqn.googlegroups.com>
Source record: 16610
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

On Apr 9, 2:00 pm, j...@specsol.spam.sux.com wrote:
> Anyone know of a source for semi rigid coax in general and RG-401 in
> particular in hobby quantities like 3 to 6 feet?
>
> I can find lots of places willing to sell me a 50 foot spool.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

I have seen some of the surplus places have it from time to time.
Sometimes a phone call to them will get you things they dont have in
their catalog.

Jimmie

2037. Re: Semi rigid coax source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 21:38:39 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <a4581596-2eeb-4456-b2f6-df6367473f5a@f19g2000yqh.googlegroups.com>
Source record: 16611
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

On Apr 9, 11:00 am, j...@specsol.spam.sux.com wrote:
> Anyone know of a source for semi rigid coax in general and RG-401 in
> particular in hobby quantities like 3 to 6 feet?
>
> I can find lots of places willing to sell me a 50 foot spool.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

Have you tried asking manufacturers like Micro-Coax who their stocking distributors are? One of the distributors may take pity on you and sell you a small quantity. You _might_ even be able to sweet-talk a manufacturer/rep out of a sample of 3 feet of the stuff.

Cheers,
Tom

2038. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 21:47:02 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <r1uDl.22996$c45.4929@nlpi065.nbdc.sbc.com>
Source record: 16612

Tom Donaly wrote:
> You still got it wrong.

It's easy to say someone is wrong - why don't you
post the correct equation so we can discuss it?

Whether the (kx) term is a sine or cosine is a
function of where x=0. Whether the (wt) term
is a sine or cosine function is arbitrary.

Hecht in "Optics" uses this equation for a pure
standing wave:

E(x,t) = 2Eo1*sin(kx)*cos(wt)

Ramo and Whinnery write it a little differently:

E(z,t) = 2E+*sin(kz)*sin(wt)

My definition of Eo in my previous equation is
Eo = |E+|+|E-| = 2Eo1 = 2E+

E(x,t) = Eo*cos(kx)*cos(wt)

I fail to see anything wrong with that equation
for a pure standing wave.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2039. Re: Semi rigid coax source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 22:00:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <lk72b6-n6e.ln1@mail.specsol.com>
Source record: 16613
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

In rec.radio.amateur.antenna K7ITM <k7itm@msn.com> wrote:
> On Apr 9, 11:00 am, j...@specsol.spam.sux.com wrote:
>> Anyone know of a source for semi rigid coax in general and RG-401 in
>> particular in hobby quantities like 3 to 6 feet?
>>
>> I can find lots of places willing to sell me a 50 foot spool.
>>
>> --
>> Jim Pennino
>>
>> Remove .spam.sux to reply.
>
> Have you tried asking manufacturers like Micro-Coax who their stocking
> distributors are? One of the distributors may take pity on you and
> sell you a small quantity. You _might_ even be able to sweet-talk a
> manufacturer/rep out of a sample of 3 feet of the stuff.
>
> Cheers,
> Tom

Almost all the distributors are willing to sell short lengths with
an added flat, short length, cutting fee ranging from $15 to $25,
which at the price of this stuff may be the way to go.

--
Jim Pennino

Remove .spam.sux to reply.

2040. Re: Semi rigid coax source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 22:01:25 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <_euDl.12227$5q1.10098@en-nntp-01.dc1.easynews.com>
Source record: 16614
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

jimp@specsol.spam.sux.com wrote:
> Anyone know of a source for semi rigid coax in general and RG-401 in
> particular in hobby quantities like 3 to 6 feet?
>
> I can find lots of places willing to sell me a 50 foot spool.
>
>

Cable Experts: www.cablexperts.com

Marv

2041. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 22:24:21 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <ptuDl.1984$fD.534@flpi145.ffdc.sbc.com>
Source record: 16615

Cecil Moore wrote:
> Tom Donaly wrote:
>> You still got it wrong.
>
> It's easy to say someone is wrong - why don't you
> post the correct equation so we can discuss it?
>
> Whether the (kx) term is a sine or cosine is a
> function of where x=0. Whether the (wt) term
> is a sine or cosine function is arbitrary.
>
> Hecht in "Optics" uses this equation for a pure
> standing wave:
>
> E(x,t) = 2Eo1*sin(kx)*cos(wt)
>
> Ramo and Whinnery write it a little differently:
>
> E(z,t) = 2E+*sin(kz)*sin(wt)
>
> My definition of Eo in my previous equation is
> Eo = |E+|+|E-| = 2Eo1 = 2E+
>
> E(x,t) = Eo*cos(kx)*cos(wt)
>
> I fail to see anything wrong with that equation
> for a pure standing wave.

In the past, Cecil, I've learned that trying to discuss anything with you has been a complete waste of time. There's no discussing anything with someone who makes things up in his head, cherry picks phrases from authorities to justify his fantasies, and then doggedly keeps repeating himself - without understanding, by the way - not in an effort to promote whatever truth that may lie in his assumptions, but to always, and perpetually, and dogmatically crush all doubts about the wisdom of his assertions by other people. If you would spend anywhere near the time studying your subject as you do defending it, you might even have something intelligent to say about it, in which case, your posts might even be worth reading. In the meantime, they are mere cheap red wine: plonk.
73,
Tom Donaly, KA6RUH

2042. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 23:26:12 UTC
From: Dave <noone@nowhere.com>
Message-ID: <ouvDl.2648$Q52.1835@nwrddc02.gnilink.net>
Source record: 16616

"Emanuele Colucci" <emack@gameprog.it> wrote in message
news:49ddab61$0$840$4fafbaef@reader5.news.tin.it...
> Dave ha scritto:
>> well, searching for "cassegrain antenna" with google only gives 60,400
>> links, searching for "cassegrain antenna design and construction" narrows
>> it down to about 4000.
>
> It's April, 9th, 2009. By this date I still wonder why there are persons
> so arrogant to think that who asks for advices never looked at google.
>
> Have a nice day.
>
> Emanuele Colucci
> emack@gameprog.it

because there are those who have never searched with google or any other
engine and just want someone to feed them the answers.

2043. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-09 23:42:38 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <201tt4p10uis0js62i26cappt0ri1g9rdf@4ax.com>
Source record: 16617

On Thu, 09 Apr 2009 10:01:32 +0200, Emanuele Colucci
<emack@gameprog.it> wrote:

>> well, searching for "cassegrain antenna" with google only gives 60,400
>> links, searching for "cassegrain antenna design and construction"
>> narrows it down to about 4000.
>
>It's April, 9th, 2009. By this date I still wonder why there are persons
> so arrogant to think that who asks for advices never looked at google.

Hi Emanuele,

This is probably due to the way the question was offered. You want a
complete solution to an unknown problem. When such "wish lists" are
posted here, they obtain one of several results:
1. An exhaustive reply that is complete to the question asked, but we
then have the luxury of reading from the original poster that "that
specific solution won't work because...."
2. The beginning of an exhaustive series of postings to draw the
specific issues out of the original poster. That has already begun by
another poster in this thread.
3. The fire hose is opened (much as above) which is another form of
(2) in that you imply you have done a google search, but you haven't
expressed what your search terms were - which would, of course, reduce
those 60,400 links to something more tractable. You don't offer
anything like this in your response except outrage.

Each of these possible outcomes inevitable returns to you, and
something you could have done first instead of last: What is your
problem, why do you think this (a "cassegrain antenna") is the
solution, and some fundamental design issues such as
1. Frequency;
2. Bandwidth;
3. Match;
4. Gain;
5. Budget (time and/or money);
6. Specific issues (phase control?);
7. Application issues (EME?).

When such things are asked for, students coming here to complete an
homework assignment are usually stunned. If you are not a student,
then an engineer is always prepared to submit the characteristics
required. If you are not a student, nor an engineer, then almost any
quick answer could lead you down the path to lost time. You are lucky
no one supplied that quick answer, because we have enough miracle
antenna designers who come here to do just that.

73's
Richard Clark, KB7QHC

2044. Re: Semi rigid coax source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 02:26:01 UTC
From: amdx <amdx@knology.net>
Message-ID: <8c3d6$49deae3b$18d6b40c$31595@KNOLOGY.NET>
Source record: 16618
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew

<jimp@specsol.spam.sux.com> wrote in message
news:29p1b6-1kc.ln1@mail.specsol.com...
> Anyone know of a source for semi rigid coax in general and RG-401 in
> particular in hobby quantities like 3 to 6 feet?
>
> I can find lots of places willing to sell me a 50 foot spool.
>
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

Ebay has RG402 in 10 ft sections 1.5 times more loss (only .26db additional
for 10ft) and smaller diameter.

http://shop.ebay.com/items/?_nkw=1673a+rg402+rg401&_in_kw=2&_ex_kw=&_sacat=See-All-Categor
ies&_okw=1673a+rg402+rg401&_oexkw=&_udlo=&_udhi=&_ftrt=901&_ftrv=1&_sabdlo=&_sabdhi=&_sami
low=&_samihi=&_sadis=200&_fpos=Zip+code&_fsct=&LH_SALE_CURRENCY=0&_sop=12&_dmd=1&_ipg=50

2045. Future sun spot cycles

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 03:03:00 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <hrudnREWu5FCK0PUnZ2dnUVZ8uGdnZ2d@westnet.com.au>
Source record: 16619

See attached You-Tube movie regarding climate change. I not sure what I think about his climate change theories, but he has a lot to say about the sun spot cycle. It's very interesting.

http://www.youtube.com/watch?v=VDX2ExKYyqw&feature=PlayList&p=4AC8CCAB1FB2ED26&playnext=1&playnext_from=PL&index=15

Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

2046. Future sun spot cycle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 03:04:37 UTC
From: Peter <colleenpeter@westnet.com.au>
Message-ID: <2q-dnUMrH6yiKkPUnZ2dnUVZ8hGdnZ2d@westnet.com.au>
Source record: 16620

See attached You-Tube movie regarding climate change. I not sure what I think about his climate change theories, but he has a lot to say about the sun spot cycle. It's very interesting, but quite long.

http://www.youtube.com/watch?v=VDX2ExKYyqw&feature=PlayList&p=4AC8CCAB1FB2ED26&playnext=1&playnext_from=PL&index=15

Peter VK6YSF

http://members.optushome.com.au/vk6ysf/vk6ysf/main.htm

2047. Re: colinear representation in NEC

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 03:05:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <AHyDl.11873$jZ1.2890@flpi144.ffdc.sbc.com>
Source record: 16622

Tom Donaly wrote:
> plonk.

Aha, one more guru who can't stand to be proved wrong.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2048. Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 03:05:20 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com>
Source record: 16621

I made a helical end fed antenna that is inside a cone shaped
reflector
The reflector is made from 1/2" mesh steel with an aluminum foil liner
and connected to the braid of the feed coax. No baluns are used, just
direct connections.
I was surprised to hear signals from the rear!
I thought that a dish reflector prevented such signals getting to the
receiver. So what can be wrong with the reflector or can signals get
reflected back from the frontal area? Antenna is at a 40 foot height
Any ideas as to what the fault could be?
Regards
Art
I have no experience with dishes thus the question Note, the helical
antenna does not protrude beyond the dish envelope.
Art

2049. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 04:59:03 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <o8ktt4pfsodndi5bm7em0jplfv94l3lgsb@4ax.com>
Source record: 16623

On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>No baluns are used

That alone is at least one thing wrong with the design.

Ignoring the obvious, the design suffers from the basic disregard for
scale and wavelength.

There are probably other issues beyond these violations of first
principles.

73's
Richard Clark, KB7QHC

2050. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 06:54:41 UTC
From: Brian Howie <brian@nospam.demon.co.uk>
Message-ID: <Tdqq9$Bx0u3JFwEQ@b-howie.demon.co.uk>
Source record: 16627

In message
<8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com>, Art
Unwin <ArthurUnwin@gmail.com> writes
>I made a helical end fed antenna that is inside a cone shaped
>reflector
>The reflector is made from 1/2" mesh steel with an aluminum foil liner
>and connected to the braid of the feed coax. No baluns are used, just
>direct connections.
> I was surprised to hear signals from the rear!
> I thought that a dish reflector prevented such signals getting to the
>receiver. So what can be wrong with the reflector or can signals get
>reflected back from the frontal area? Antenna is at a 40 foot height
>Any ideas as to what the fault could be?

Diffraction off the edge of the reflector. It causes backlobes. It's
not a fault.

Brian GM4DIJ
--
Brian Howie

2051. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 10:34:34 UTC
From: Emanuele Colucci <emack@gameprog.it>
Message-ID: <49df20c1$0$1112$4fafbaef@reader3.news.tin.it>
Source record: 16624

Hi to everyone and thanks for answering to my message.

Richard Clark ha scritto:
> Hi Emanuele,
>
> This is probably due to the way the question was offered. You want a
> complete solution to an unknown problem.

You and Dave were right. I originally posted the message in the homebrew newsgroup because I was looking for a complete guide to design a cas in order to build a little radiometer working in the "water hole" (1420 ~ 1640 MHz) for an hobbystic aim.
The book I used at university to study antennas - Antennas and Radiowave Propagation [by Robert E. Collin] - simply doesn't cover in depth this argument. It just cites the Cassegrain feed system as an alternative to prime focus paraboloidal reflector antennas, because the cassegrain feed does't receive the thermal noise from the ground.

I was looking for a complete resource to study the system, and this is why I wrote here: to find someone with good advices.

Now, the thing I have now understood is that I haven't to be so synthetic while writing a message.

So, I would like to study (and eventually build) a radiometer who listens to 1420 ~ 1640 MHz, with a passing bandwidth of 8 MHz, in order to receive a minumum density flux of 240-260 Jy (a Jansky is 10^-26 W / [m^2 * Hz]). I need low antenna temperature (but not as cryogenics ones!).

> 5. Budget (time and/or money);

I can't answer this question yet. Surely, I haven't more than 5-600 euros to spend in the building/buying of the antenna.

> 6. Specific issues (phase control?);

Nothing special: I would like an output signal proportional to the power of the radiation picked up.

> 7. Application issues (EME?).

Amateur radioastronomy.

Well, that's all by the moment.

Greetings,

Emanuele Colucci
emack@gameprog.it

2052. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 13:29:24 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ed153937-089c-4a77-854a-7b684ad3e82f@r33g2000yqn.googlegroups.com>
Source record: 16625

On Apr 9, 11:59 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>
> <ArthurUn...@gmail.com> wrote:
> >No baluns are used
>
> That alone is at least one thing wrong with the design.
>
> Ignoring the obvious, the design suffers from the basic disregard for
> scale and wavelength.
>
> There are probably other issues beyond these violations of first
> principles.
>
> 73's
> Richard Clark, KB7QHC

The radiator is totally within the reflector envelope !
It is possible that the transmission line is picking up
some signal but a brief scan of the books show that
dishes do some how obtain some signals from the rear..
"Ignoring the obvious" is a nonsense aproach,
as is scale and wavelength.
I was hoping for somebody who is familiar with dish design
and not from one who is a talking head bent on agitation
and slander

2053. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 13:35:26 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <sCsrzFUes03JFwiX@g3ohx.demon.co.uk>
Source record: 16626

In message <o8ktt4pfsodndi5bm7em0jplfv94l3lgsb@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
><ArthurUnwin@gmail.com> wrote:
>
>>No baluns are used
>
>That alone is at least one thing wrong with the design.
>
Do you use a balun with a helix and a dish reflector? Surely that bit at
least is right!

>
>
>
>
--
Ian

2054. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 14:50:10 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <C0JDI.18$WK5.14@nwrddc01.gnilink.net>
Source record: 16628

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
>I made a helical end fed antenna that is inside a cone shaped
> reflector
> The reflector is made from 1/2" mesh steel with an aluminum foil liner
> and connected to the braid of the feed coax. No baluns are used, just
> direct connections.
> I was surprised to hear signals from the rear!
> I thought that a dish reflector prevented such signals getting to the
> receiver. So what can be wrong with the reflector or can signals get
> reflected back from the frontal area? Antenna is at a 40 foot height
> Any ideas as to what the fault could be?
> Regards
> Art
> I have no experience with dishes thus the question Note, the helical
> antenna does not protrude beyond the dish envelope.
> Art

There is a lot of very important information missing here.
What frequency are we talking about and what is the dish diameter?
Do you have any idea as to what your edge taper is or sidelobes?

Dale W4OP

2055. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 15:00:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <5q24b6-on5.ln1@mail.specsol.com>
Source record: 16629

Brian Howie <brian@nospam.demon.co.uk> wrote:
> In message
> <8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com>, Art
> Unwin <ArthurUnwin@gmail.com> writes
>>I made a helical end fed antenna that is inside a cone shaped
>>reflector
>>The reflector is made from 1/2" mesh steel with an aluminum foil liner
>>and connected to the braid of the feed coax. No baluns are used, just
>>direct connections.
>> I was surprised to hear signals from the rear!
>> I thought that a dish reflector prevented such signals getting to the
>>receiver. So what can be wrong with the reflector or can signals get
>>reflected back from the frontal area? Antenna is at a 40 foot height
>>Any ideas as to what the fault could be?
>
> Diffraction off the edge of the reflector. It causes backlobes. It's
> not a fault.
>
> Brian GM4DIJ

Ask him the working frequency and dimensions of his "dish reflector".

Don't be drinking anything when you read his answer.

--
Jim Pennino

Remove .spam.sux to reply.

2056. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 15:15:02 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <7c44b6-8t5.ln1@mail.specsol.com>
Source record: 16630

Dale Parfitt <parinc1@verizon.net> wrote:
>
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
>>I made a helical end fed antenna that is inside a cone shaped
>> reflector
>> The reflector is made from 1/2" mesh steel with an aluminum foil liner
>> and connected to the braid of the feed coax. No baluns are used, just
>> direct connections.
>> I was surprised to hear signals from the rear!
>> I thought that a dish reflector prevented such signals getting to the
>> receiver. So what can be wrong with the reflector or can signals get
>> reflected back from the frontal area? Antenna is at a 40 foot height
>> Any ideas as to what the fault could be?
>> Regards
>> Art
>> I have no experience with dishes thus the question Note, the helical
>> antenna does not protrude beyond the dish envelope.
>> Art
>
> There is a lot of very important information missing here.
> What frequency are we talking about and what is the dish diameter?
> Do you have any idea as to what your edge taper is or sidelobes?
>
>
> Dale W4OP
>

The last time he talked about it, it was "designed" to operate on the
160 meter band and the "reflector" was 3 meters in diameter.

No, those numbers are not typos.

--
Jim Pennino

Remove .spam.sux to reply.

2057. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 15:34:55 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <06adaa6b-8a8d-4694-aa56-7802e0a951d7@u8g2000yqn.googlegroups.com>
Source record: 16631

On Apr 10, 9:50 am, "Dale Parfitt" <pari...@verizon.net> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
>
> >I made a helical end fed antenna that is inside a cone shaped
> > reflector
> > The reflector is made from 1/2" mesh steel with an aluminum foil liner
> > and connected to the braid of the feed coax. No baluns are used, just
> > direct connections.
> > I was surprised to hear signals from the rear!
> > I thought that a dish reflector prevented such signals getting to the
> > receiver. So what can be wrong with the reflector or can signals get
> > reflected back from the frontal area? Antenna is at a 40 foot height
> > Any ideas as to what the fault could be?
> > Regards
> > Art
> > I have no experience with dishes thus the question Note, the helical
> > antenna does not protrude beyond the dish envelope.
> > Art
>
> There is a lot of very important information missing here.
> What frequency are we talking about and what is the dish diameter?
> Do you have any idea as to what your edge taper is or sidelobes?
>
> Dale W4OP

Dale
I thought that if the radiator was in the reflector envelope, that is
the radiator is below the top of the cone then there should be no
radiation from the rear though possibly a little edge refraction. I
know little regarding dish reflectors thus the question. I am of the
opinion that radio is a matter of particles and not waves so I can
easily visualize impregnation of the shield at the center as per
Rutherford foil and particle experiments, but I am not ready to jump
because of edge taper and other things that I am not aware of
What is very clear from dish radiation patterns in the books that
there is a localised radiation congregation at the dish axis rear
which appears unexplainable.
at the rear at the dishes axis tho it is in the area of direct impact
I appreciate the comments and thoughts applied but not the nonsensicle
writings of Richard who is wired so differently from the rest of us.
These signals appear at all frequencies though I fail to see what the
impact of frequency is because of the reflector envelope or umbrella.

2058. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 16:08:00 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49df6ecf$0$18865$8046368a@newsreader.iphouse.net>
Source record: 16632

Art Unwin wrote:
> On Apr 10, 9:50 am, "Dale Parfitt" <pari...@verizon.net> wrote:
>> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>>
>> news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
>>
>>> I made a helical end fed antenna that is inside a cone shaped
>>> reflector
>>> The reflector is made from 1/2" mesh steel with an aluminum foil liner
>>> and connected to the braid of the feed coax. No baluns are used, just
>>> direct connections.
>>> I was surprised to hear signals from the rear!
>>> I thought that a dish reflector prevented such signals getting to the
>>> receiver. So what can be wrong with the reflector or can signals get
>>> reflected back from the frontal area? Antenna is at a 40 foot height
>>> Any ideas as to what the fault could be?
>>> Regards
>>> Art
>>> I have no experience with dishes thus the question Note, the helical
>>> antenna does not protrude beyond the dish envelope.
>>> Art
>> There is a lot of very important information missing here.
>> What frequency are we talking about and what is the dish diameter?
>> Do you have any idea as to what your edge taper is or sidelobes?
>>
>> Dale W4OP
>
> Dale
> I thought that if the radiator was in the reflector envelope, that is
<snip>
> These signals appear at all frequencies though I fail to see what the
> impact of frequency is because of the reflector envelope or umbrella.

Dale

You will, of course, have noted that he hasn't given a couple of the
important items that you requested. Based upon some of his earlier
babblings, I suspect that this is a helical antenna of perhaps UHF
dimensions that he is attempting to use on 160 or 80.

tom
K0TAR

2059. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 17:30:15 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <a90vt4lo57dc00pegg8fa8n35qmafj4utm@4ax.com>
Source record: 16633

On Fri, 10 Apr 2009 06:29:24 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

> "Ignoring the obvious" is a nonsense aproach,
> as is scale and wavelength.

This is a curious defense of poor practice. The results fully follow
the obvious problem of ignoring scale and wavelength. Fundamentals
have been violated - it doesn't take a PhD nor a research grant to
figure that out. No models are necessary, but they would show the
failure too.

73's
Richard Clark, KB7QHC

2060. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 17:33:22 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <6i0vt49ch23gbohq909c16ik8tpidurf9r@4ax.com>
Source record: 16634

On Fri, 10 Apr 2009 14:35:26 +0100, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>>>No baluns are used
>>
>>That alone is at least one thing wrong with the design.
>>
>Do you use a balun with a helix and a dish reflector? Surely that bit at
>least is right!

Hi Ian,

What has been done right is arguable in the face of failure. The
simple testimony easily reveals very simple problems of a fundamental
nature.

Hoisting the design 40 feet only added to the inefficiency of the
exercise (use common sense before muscles - much in the sense of
"measure twice, cut once").

73's
Richard Clark, KB7QHC

2061. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 17:39:01 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <sp0vt4hjv8ms4tcp0mgvktg8ucf2fc9t1u@4ax.com>
Source record: 16635

On Fri, 10 Apr 2009 07:54:41 +0100, Brian Howie
<brian@nospam.demon.co.uk> wrote:

>Diffraction off the edge of the reflector. It causes backlobes. It's
>not a fault.

Hi Brian,

You have hit the nail on the head. More, you have pushed in the tack
with a 10# sledge. This design we are talking about suffers immensely
from the violation of observing what you comment upon.

It is very much a fault.

73's
Richard Clark, KB7QHC

2062. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 17:52:37 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <f71vt4ti7hjftd6n7v9drc4vua27niv939@4ax.com>
Source record: 16636

On Fri, 10 Apr 2009 12:34:34 +0200, Emanuele Colucci
<emack@gameprog.it> wrote:

>Hi to everyone and thanks for answering to my message.
>
>Richard Clark ha scritto:
>> Hi Emanuele,
>>
>> This is probably due to the way the question was offered. You want a
>> complete solution to an unknown problem.
>
>You and Dave were right. I originally posted the message in the homebrew
>newsgroup because I was looking for a complete guide to design a cas in
>order to build a little radiometer working in the "water hole" (1420 ~
>1640 MHz) for an hobbystic aim.
>The book I used at university to study antennas - Antennas and Radiowave
> Propagation [by Robert E. Collin] - simply doesn't cover in depth this
>argument. It just cites the Cassegrain feed system as an alternative to
>prime focus paraboloidal reflector antennas, because the cassegrain feed
>does't receive the thermal noise from the ground.

Hi Emanuele,

I have that book and I can see your source material. If it is your
choice, that is fine. Other correspondents here can respond to your
desire to eliminate thermal noise from the ground in alternative
designs. You may have to repeat your query to get their attention as
this is not a topic that many have experience with (repetition is for
the occasion when they check in on an irregular basis). An
alternative is to search this group, specifically, at
groups.google.com.
>
>I was looking for a complete resource to study the system, and this is
>why I wrote here: to find someone with good advices.
>
>Now, the thing I have now understood is that I haven't to be so
>synthetic while writing a message.
>
>So, I would like to study (and eventually build) a radiometer who
>listens to 1420 ~ 1640 MHz, with a passing bandwidth of 8 MHz, in order
>to receive a minumum density flux of 240-260 Jy (a Jansky is 10^-26 W /
>[m^2 * Hz]). I need low antenna temperature (but not as cryogenics ones!).

You can get a lot of practical ideas here (construction materials and
feed issues); and you can use Collin for the math to simply scale the

structure to your frequency band. The design is rather more simple
than building it.

>> 5. Budget (time and/or money);
>
>I can't answer this question yet. Surely, I haven't more than 5-600
>euros to spend in the building/buying of the antenna.

That is plenty of money. Do you have any time constraints?

>> 7. Application issues (EME?).
>
>Amateur radioastronomy.

We have a contributor who has been teaching that for 40 years at a
major university, and he studied under the pioneers of that specialty.
Search groups.google.com for posts by "Mac N8TT" or use "J.
McLaughlin; Michigan, USA" as search terms.

>Well, that's all by the moment.
>
>Greetings,
>
>Emanuele Colucci
>emack@gameprog.it

73's
Richard Clark, KB7QHC

2063. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 18:07:34 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <gro1tenqc1@news.netins.net>
Source record: 16637

Maybe the coax ground is insufficent and a seperate ground from mother earth
is required.....Maybe

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
>I made a helical end fed antenna that is inside a cone shaped
> reflector
> The reflector is made from 1/2" mesh steel with an aluminum foil liner
> and connected to the braid of the feed coax. No baluns are used, just
> direct connections.
> I was surprised to hear signals from the rear!
> I thought that a dish reflector prevented such signals getting to the
> receiver. So what can be wrong with the reflector or can signals get
> reflected back from the frontal area? Antenna is at a 40 foot height
> Any ideas as to what the fault could be?
> Regards
> Art
> I have no experience with dishes thus the question Note, the helical
> antenna does not protrude beyond the dish envelope.
> Art

2064. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 19:09:11 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gro5gp$c3f$1@news.service.uci.edu>
Source record: 16638

Art Unwin wrote:
> Many on this newsgroup are aware of my views on radiation which I then
> took to the QRZ antenna page because of the fraustration created by
> lack of knowledge of equilibrium by the average american.
> I have now run into another interpretation by americans which differ
> from the european aspect and that is Newtons third law with respect to
> reaction . Definitions on the net view this law as an equal and
> diametrically opposite force where Newton never used the word
> "diametrically". English law is based on the intention provided by the
> words of the law such that it becomes unchanged thru time. American
> law does not define "intention" thus the law can and does change over
> time creating appeals against the intent of words.
> One definition of Newton's law on the net shows two skaters pushing
> against each other as an illustration of the law. But Newton's
> "intent" was in the olde english where "opposite" was viewed in a
> different way.
> If you view a helicopter the front rotor is in a horizontal plane and
> rotating clockwise thus per Newton the resulting action is a rotator
> at the rear that is rotating in a "vertical " plane and rotating
> counter clockwise to maintain equilibrium. Another example is a
> caramel bar that is placed under tension which produces a force at
> right angles that narrows the cross section and the sample fails in
> shear at 45 degrees (vector resultant of the two forces)
> I bring this up because of what I have stated earlier about radiation
> on this newsgroup, where the applied force is electrical on a radiator
> and per Newton the reaction is at right angle to that force which is
> called the displacement current (capacitive magnetic field). No
> wonder Einstein gave up on the pursuit of radiation because as a
> german had no understanding of olde english and thus was looking for a
> equal and diametrically opposite force in his search for the "weak
> force." He was correct in his prediction of it's presence with respect
> to radiation but, unfortunately, was looking in the wrong place and
> thus relativity was born!
> Regards
> Art KB9MZ....XG (uk)

Apparently when he couldn't unify Newtonian mechanics and
electromagnetism he just gave up. You'll have to forgive the inadequacy
of my American education. I guess they must know all about Newtonian
electromagnetism wherever it is that you hail from.

73, ac6xg

2065. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 19:14:19 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <53023a50-6cec-485e-b1ec-649c105752e6@y13g2000yqn.googlegroups.com>
Source record: 16639

On Apr 10, 1:07 pm, "Rollie" <rol...@iowatelecom.net> wrote:
> Maybe the coax ground is insufficent and a seperate ground from mother earth
> is required.....Maybe
>
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
>
> >I made a helical end fed antenna that is inside a cone shaped
> > reflector
> > The reflector is made from 1/2" mesh steel with an aluminum foil liner
> > and connected to the braid of the feed coax. No baluns are used, just
> > direct connections.
> > I was surprised to hear signals from the rear!
> > I thought that a dish reflector prevented such signals getting to the
> > receiver. So what can be wrong with the reflector or can signals get
> > reflected back from the frontal area? Antenna is at a 40 foot height
> > Any ideas as to what the fault could be?
> > Regards
> > Art
> > I have no experience with dishes thus the question Note, the helical
> > antenna does not protrude beyond the dish envelope.
> > Art

Rollie
I checked.
The coax ground and the reflector is grounded at the same place at the
top of the tower. All horizontal coax is buried. Seems like the dish
reflector does not get a lot of attention from ham operators !
Art

2066. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 19:30:03 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <k1j4b6-sj7.ln1@mail.specsol.com>
Source record: 16640

Art Unwin <ArthurUnwin@gmail.com> wrote:
> On Apr 10, 1:07 pm, "Rollie" <rol...@iowatelecom.net> wrote:
>> Maybe the coax ground is insufficent and a seperate ground from mother earth
>> is required.....Maybe
>>
>> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>>
>> news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
>>
>> >I made a helical end fed antenna that is inside a cone shaped
>> > reflector
>> > The reflector is made from 1/2" mesh steel with an aluminum foil liner
>> > and connected to the braid of the feed coax. No baluns are used, just
>> > direct connections.
>> > I was surprised to hear signals from the rear!
>> > I thought that a dish reflector prevented such signals getting to the
>> > receiver. So what can be wrong with the reflector or can signals get
>> > reflected back from the frontal area? Antenna is at a 40 foot height
>> > Any ideas as to what the fault could be?
>> > Regards
>> > Art
>> > I have no experience with dishes thus the question Note, the helical
>> > antenna does not protrude beyond the dish envelope.
>> > Art
>
> Rollie
> I checked.
> The coax ground and the reflector is grounded at the same place at the
> top of the tower. All horizontal coax is buried. Seems like the dish
> reflector does not get a lot of attention from ham operators !
> Art

Hmmm, I guess this guy just talks to himself.

http://www.signalone.com/kb2ah/KB2AHantennas.html

--
Jim Pennino

Remove .spam.sux to reply.

2067. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 19:35:42 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e43b03f3-957e-4367-947f-ee87cda57389@z14g2000yqa.googlegroups.com>
Source record: 16641

On Apr 10, 10:15 am, j...@specsol.spam.sux.com wrote:
> Dale Parfitt <pari...@verizon.net> wrote:
>
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
> >news:8d58b22d-6580-49e0-9938-0b0e7ddab99f@y9g2000yqg.googlegroups.com...
> >>I made a helical end fed antenna that is inside a cone shaped
> >> reflector
> >> The reflector is made from 1/2" mesh steel with an aluminum foil liner
> >> and connected to the braid of the feed coax. No baluns are used, just
> >> direct connections.
> >> I was surprised to hear signals from the rear!
> >> I thought that a dish reflector prevented such signals getting to the
> >> receiver. So what can be wrong with the reflector or can signals get
> >> reflected back from the frontal area? Antenna is at a 40 foot height
> >> Any ideas as to what the fault could be?
> >> Regards
> >> Art
> >> I have no experience with dishes thus the question Note, the helical
> >> antenna does not protrude beyond the dish envelope.
> >> Art
>
> > There is a lot of very important information missing here.
> > What frequency are we talking about and what is the dish diameter?
> > Do you have any idea as to what your edge taper is or sidelobes?
>
> > Dale W4OP
>
> The last time he talked about it, it was "designed" to operate on the
> 160 meter band and the "reflector" was 3 meters in diameter.
>
> No, those numbers are not typos.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

That antenna was when I used an old parabolic satellite dish which was
unsuitable.
Scanning past antenna papers point to the use of a cone shape similar
to a horn of 2 metres diameter
produces better results. The antenna needs a longer mast so at the
moment I can't compare
F/R. Either way, with the radiator within the reflector envelope it is

difficult to understand what creates
a rearward lobe regardles of scale or frequency of use with respect to
receive. At the moment I see nothing that points away from the
Rutherford particle experiments with foil .ie penetration when at
right angles , deflection at other angles.

2068. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 19:47:41 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3c14e872-b9ff-4276-a4f7-312953781abb@k8g2000yqn.googlegroups.com>
Source record: 16642

On Apr 10, 8:35 am, Ian Jackson
<ianREMOVETHISjack...@g3ohx.demon.co.uk> wrote:
> In message <o8ktt4pfsodndi5bm7em0jplfv94l3l...@4ax.com>, Richard Clark
> <kb7...@comcast.net> writes>On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
> ><ArthurUn...@gmail.com> wrote:
>
> >>No baluns are used
>
> >That alone is at least one thing wrong with the design.
>
> Do you use a balun with a helix and a dish reflector? Surely that bit at
> least is right!
>
>
>
> --
> Ian

Ian;
I specifically mentioned the absence of a balun. I stated that since
it doesn't seem relevent, especially when one reviews published
patterns. In a way I knew that Richard would pile up his postings of
olde english prose in the shape of riddles that provide nothing, But
one has to get used to him and his pals kb9....and others who smear
this group with a foul smell as they are wired very differently from
the rest of us.

2069. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 20:00:49 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <4ANDl.18583$as4.8379@nlpi069.nbdc.sbc.com>
Source record: 16643

Jim Kelley wrote:
> Art Unwin wrote:
>> Many on this newsgroup are aware of my views on radiation which I then
>> took to the QRZ antenna page because of the fraustration created by
>> lack of knowledge of equilibrium by the average american.
>> I have now run into another interpretation by americans which differ
>> from the european aspect and that is Newtons third law with respect to
>> reaction . Definitions on the net view this law as an equal and
>> diametrically opposite force where Newton never used the word
>> "diametrically". English law is based on the intention provided by the
>> words of the law such that it becomes unchanged thru time. American
>> law does not define "intention" thus the law can and does change over
>> time creating appeals against the intent of words.
>> One definition of Newton's law on the net shows two skaters pushing
>> against each other as an illustration of the law. But Newton's
>> "intent" was in the olde english where "opposite" was viewed in a
>> different way.
>> If you view a helicopter the front rotor is in a horizontal plane and
>> rotating clockwise thus per Newton the resulting action is a rotator
>> at the rear that is rotating in a "vertical " plane and rotating
>> counter clockwise to maintain equilibrium. Another example is a
>> caramel bar that is placed under tension which produces a force at
>> right angles that narrows the cross section and the sample fails in
>> shear at 45 degrees (vector resultant of the two forces)
>> I bring this up because of what I have stated earlier about radiation
>> on this newsgroup, where the applied force is electrical on a radiator
>> and per Newton the reaction is at right angle to that force which is
>> called the displacement current (capacitive magnetic field). No
>> wonder Einstein gave up on the pursuit of radiation because as a
>> german had no understanding of olde english and thus was looking for a
>> equal and diametrically opposite force in his search for the "weak
>> force." He was correct in his prediction of it's presence with respect
>> to radiation but, unfortunately, was looking in the wrong place and
>> thus relativity was born!
>> Regards
>> Art KB9MZ....XG (uk)
>
> Apparently when he couldn't unify Newtonian mechanics and
> electromagnetism he just gave up. You'll have to forgive the inadequacy
> of my American education. I guess they must know all about Newtonian
> electromagnetism wherever it is that you hail from.
>
> 73, ac6xg
>

>
>

Not to mention the fact that Newton wrote his laws of motion in Latin,
and not in "olde english" (whatever that is). Art is fantasizing again.
73,
Tom Donaly, KA6RUH

2070. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 21:31:49 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <q0evt4pgk51jt689nvmiq46b8albrssol8@4ax.com>
Source record: 16644

On Fri, 10 Apr 2009 19:30:03 GMT, jimp@specsol.spam.sux.com wrote:

>Hmmm, I guess this guy just talks to himself.

For himself.

Artifice: I have a novel and mysterious design emploiting Rutherford partical evasion without baluns and using a gauss reflectionater.

Ham: What is its front to back rejection?

Artifice: I gets signals in all directions! Not just front or back.

Ham: Then why do you say it -um- evades something or other (sigh)?

Artifice: Well, this is not part of the design of not getting the forward proceeding back signals.

Ham: So, it doesn't work.

Artifice: It works perfectly, just not as well as gaussian reflectionating mechanics would expect unless these particals are accelerated to high speeds by the weekend force.

Ham: So, why doesn't my antenna get this kind of signal?

Artifice: Because you read books from the libraries of the hooded priests who refuse to backnowledge my inventions!

Ham: Why would I want to listen to these signals if I read your books?

Artifice: Then you could enjoy the Fill-harmonic richness of my single channel stereoid transmissions.

73's
Richard Clark, KB7QHC

2071. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 23:00:56 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <IcQDl.133$WK5.35@nwrddc01.gnilink.net>
Source record: 16645

That antenna was when I used an old parabolic satellite dish which was unsuitable.
Scanning past antenna papers point to the use of a cone shape similar to a horn of 2 metres diameter
produces better results. The antenna needs a longer mast so at the moment I can't compare
F/R. Either way, with the radiator within the reflector envelope it is difficult to understand what creates
a rearward lobe regardles of scale or frequency of use with respect to receive. At the moment I see nothing that points away from the
Rutherford particle experiments with foil .ie penetration when at right angles , deflection at other angles.

As usual Art you are avoiding answering the questions and choose to confuse the issues
with you own preconceived ideas and terminology. The fact that the feed is totally within the "reflector envelope" tells you or us nothing about sidelobes and edge taper.
I really don't think you want answers, but I'll try once more:
1. What frequency
2. What is the dish diameter
3. What is the dish focal length to diameter ratio (F/D)

Dale W4OP

2072. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 23:01:15 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49dfcfef$0$92352$8046368a@newsreader.iphouse.net>
Source record: 16646

Richard Clark wrote:
> On Fri, 10 Apr 2009 19:30:03 GMT, jimp@specsol.spam.sux.com wrote:
>
>> Hmmm, I guess this guy just talks to himself.
>
> For himself.
>
> Artifice: I have a novel and mysterious design emploiting Rutherford
> partical evasion without baluns and using a gauss reflectionater.
>
> Ham: What is its front to back rejection?
>
> Artifice: I gets signals in all directions! Not just front or back.
>
> Ham: Then why do you say it -um- evades something or other (sigh)?
>
> Artifice: Well, this is not part of the design of not getting the
> forward proceeding back signals.
>
> Ham: So, it doesn't work.
>
> Artifice: It works perfectly, just not as well as gaussian
> reflectionating mechanics would expect unless these particals are
> accelerated to high speeds by the weekend force.
>
> Ham: So, why doesn't my antenna get this kind of signal?
>
> Artifice: Because you read books from the libraries of the hooded
> priests who refuse to backnowledge my inventions!
>
> Ham: Why would I want to listen to these signals if I read your
> books?
>
> Artifice: Then you could enjoy the Fill-harmonic richness of my
> single channel stereoid transmissions.
>
> 73's
> Richard Clark, KB7QHC

Sorry Richard, but that's definitely Memorex. Nice try though.

tom
K0TAR

2073. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-10 23:49:31 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <0c17e68d-56a2-4f5d-bf56-b6b9df0c2a3a@g19g2000yql.googlegroups.com>
Source record: 16647

On Apr 10, 6:00 pm, "Dale Parfitt" <pari...@verizon.net> wrote:
> That antenna was when I used an old parabolic satellite dish which was
> unsuitable.
> Scanning past antenna papers point to the use of a cone shape similar
> to a horn of 2 metres diameter
> produces better results. The antenna needs a longer mast so at the
> moment I can't compare
> F/R. Either way, with the radiator within the reflector envelope it is
> difficult to understand what creates
> a rearward lobe regardles of scale or frequency of use with respect to
> receive. At the moment I see nothing that points away from the
> Rutherford particle experiments with foil .ie penetration when at
> right angles , deflection at other angles.
>
> As usual Art you are avoiding answering the questions and choose to confuse
> the issues
> with you own preconceived ideas and terminology. The fact that the feed is
> totally within the "reflector envelope" tells you or us nothing about
> sidelobes and edge taper.
> I really don't think you want answers, but I'll try once more:
> 1. What frequency
> 2. What is the dish diameter
> 3. What is the dish focal length to diameter ratio (F/D)
>
> Dale W4OP

I am not avoiding questions, just those that appear irrelevant, but
here goes Anything to make you happy, this should be interesting how
you use these answers with respect to the posted question

1 160 metres upto 2 metres, tunable

2 2 metres

3 Doesn't have a focal length, it is an end fed (series connection)
helix antenna.

At least to the best of my knowledge which is why I posed the question
Hopefully we will all stay on subject and not get side tracked. I will
leave it to others to respond to Richard when they determine what he
is talking about.

2074. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 00:19:42 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <t1ovt49jmtm9qlov2a3j363s0cpuvjg0er@4ax.com>
Source record: 16648

On Fri, 10 Apr 2009 16:49:31 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>> 1. What frequency
>> 2. What is the dish diameter
>> 3. What is the dish focal length to diameter ratio (F/D)
>
>I am not avoiding questions, just those that appear irrelevant,

20 postings to get to the point (not unanticipated, however) which Art
calls "irrelevant."

As for those answers?
>1 160 metres upto 2 metres, tunable

>2 2 metres
Hence the wholesale disregard for first principles in size vs.
wavelength. Elementary analysis need not go any further when failure
is so obviously designed in.

>3 Doesn't have a focal length, it is an end fed (series connection)
>helix antenna.
-Well, maybe not obvious to everyone.-

But why don't we chalk this design up to S U C C E S S and call it a
thread? If this bier gets anymore wreaths tossed onto it, it will
kill the pallbearers.

73's
Richard Clark, KB7QHC

2075. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 00:38:29 UTC
From: Mike Lucas <w5chr@bellsouth.net>
Message-ID: <fBRDl.27335$b9.3632@bignews6.bellsouth.net>
Source record: 16649

"Art Unwin" wrote:
-drivel snip-
In a way I knew that Richard would pile up his postings of
olde english prose in the shape of riddles that provide nothing, But
one has to get used to him and his pals kb9....and others who smear
this group with a foul smell as they are wired very differently from
the rest of us.

Art-let me point out the obvious.... unless your license has
expired, then you ARE a kb9!!!!! Have a nice weekend, glad
to see you back posting on the NG. Things were dull without
you.

Mike W5CHR
Memphis

2076. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 01:01:17 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <deec484c-73c7-4c17-b0b0-dbc3e571ceb3@b1g2000vbc.googlegroups.com>
Source record: 16650

On Apr 10, 7:19 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Fri, 10 Apr 2009 16:49:31 -0700 (PDT), Art Unwin
>
> <ArthurUn...@gmail.com> wrote:
> >> 1. What frequency
> >> 2. What is the dish diameter
> >> 3. What is the dish focal length to diameter ratio (F/D)
>
> >I am not avoiding questions, just those that appear irrelevant,
>
> 20 postings to get to the point (not unanticipated, however) which Art
> calls "irrelevant."
>
> As for those answers?
>
> >1 160 metres upto 2 metres, tunable
> >2 2 metres
>
> Hence the wholesale disregard for first principles in size vs.
> wavelength. Elementary analysis need not go any further when failure
> is so obviously designed in.
>
> >3 Doesn't have a focal length, it is an end fed (series connection)
> >helix antenna.
>
> -Well, maybe not obvious to everyone.-
>
> But why don't we chalk this design up to S U C C E S S and call it a
> thread? If this bier gets anymore wreaths tossed onto it, it will
> kill the pallbearers.
>
> 73's
> Richard Clark, KB7QHC

The posting is about dishes not antennas. I have not read about a dish
that does not emit signals to the rear. Now I have built one and find
to my surprize that it does accept signals from the rear ! All very
simple, the radiator is resting at the bottom of a cone and the top of
the radiator does not stick out beyond the reflector. Since you do not
know what you are talking about and intent is to disrupt this thread
why on earth are you muttering about nothing at length? Simple
question has been posed and obviously you do not know the answers that
antenna engineering knowledge would provide as you are not an engineer
but a actor or actress by day and by night. My question remains

unanswered after all these posts.How do signals arrive or depart from the rear of a dish or horn? We all know that you don't know the answer but there are qualified engineers in this group who possibly doand willing to share.

2077. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 01:13:05 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <B8SDl.145$b11.43@nwrddc02.gnilink.net>
Source record: 16501

The posting is about dishes not antennas. I have not read about a dish that does not emit signals to the rear. Now I have built one and find to my surprize that it does accept signals from the rear ! All very simple, the radiator is resting at the bottom of a cone and the top of the radiator does not stick out beyond the reflector. Since you do not know what you are talking about and intent is to disrupt this thread why on earth are you muttering about nothing at length? Simple question has been posed and obviously you do not know the answers that antenna engineering knowledge would provide as you are not an engineer but a actor or actress by day and by night. My question remains unanswered after all these posts.How do signals arrive or depart from the rear of a dish or horn? We all know that you don't know the answer but there are qualified engineers in this group who possibly doand willing to share.

Your antenna has nothing to do with dish antennas, bu rather plane reflectors (of which yours is way too small as Richard pointed out).
I know we cannot change your opinion or teach you anything- so I am out of here.

Dale W4OP

2078. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 01:45:04 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49dff652$0$92360$8046368a@newsreader.iphouse.net>
Source record: 16502

Art Unwin wrote:
>
> The posting is about dishes not antennas. I have not read about a dish
> that does not emit signals to the rear. Now I have built one and find
> to my surprize that it does accept signals from the rear ! All very
> simple, the radiator is resting at the bottom of a cone and the top of
> the radiator does not stick out beyond the reflector. Since you do not

Well, to start with Art, a cone reflector doesn't meet the definition of
a dish antenna.

I'm sorry, but they just aren't the same thing.

I surprizzzed you missed the difference.

tom
K0TAR

2079. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 01:49:24 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49dff757$0$92360$8046368a@newsreader.iphouse.net>
Source record: 16503

Tom Ring wrote:
> Art Unwin wrote:
<snip>
>
> tom
> K0TAR

Jimmie

I just couldn't resist, just this once. :)

tom
K0TAR

2080. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 02:10:52 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3e057e30-3c59-4472-9c84-e37d684f4647@t11g2000vbc.googlegroups.com>
Source record: 16504

On Apr 10, 7:38 pm, "Mike Lucas" <w5...@bellsouth.net> wrote:
> "Art Unwin" wrote:
>
> -drivel snip-
> In a way I knew that Richard would pile up his postings of
> olde english prose in the shape of riddles that provide nothing, But
> one has to get used to him and his pals kb9....and others who smear
> this group with a foul smell as they are wired very differently from
> the rest of us.
>
> Art-let me point out the obvious.... unless your license has
> expired, then you ARE a kb9!!!!! Have a nice weekend, glad
> to see you back posting on the NG. Things were dull without
> you.
>
> Mike W5CHR
> Memphis

Oh, I have just popped in and saw Richard up to to his old tricks with
Cecil. I don't really expect a satisfactory answer. All on this group
denied it was possible to expand Gaussian law of statics to the laws
of Maxwell so there is nobody with a real feel with respect to
radiation, and of course it shows! Same goes for the nature of Richard
no matter how he tries to hide things. The KB9 station and his foul
mouth friends are what I was referring to and is why they are pleading
for a moderator for this newsgroup. Not really the type I wish to
associate with. When the group deviate from the question at hand is
when I leave as they all eventually do.
Within the next few hours they will want to ask questions about you
know what to cover their ignorance and Richard will come prancing in
again with his long leg mesh underware acting out a shakespere scene .
A few years on a ship tends to change
how you look at life so that he walks in the snow with his foot prints
in a straight line
so that the torso wobbles and then there is the way that he acts and
speak.
My question is still there and regardles of the number of postings
made I doubt that it will be answered. This newsgroup becomes dull
when radio goes out the window and personal attacks begin so one
really gets what he wishes for when they hang around.

2081. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 02:17:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <cecffc5a-d575-4438-93cf-b3e1312c21e5@21g2000vbk.googlegroups.com>
Source record: 16505

On Apr 10, 8:13 pm, "Dale Parfitt" <pari...@verizon.net> wrote:
> The posting is about dishes not antennas. I have not read about a dish
> that does not emit signals to the rear. Now I have built one and find
> to my surprize that it does accept signals from the rear ! All very
> simple, the radiator is resting at the bottom of a cone and the top of
> the radiator does not stick out beyond the reflector. Since you do not
> know what you are talking about and intent is to disrupt this thread
> why on earth are you muttering about nothing at length? Simple
> question has been posed and obviously you do not know the answers that
> antenna engineering knowledge would provide as you are not an engineer
> but a actor or actress by day and by night. My question remains
> unanswered after all these posts.How do signals arrive or depart from
> the rear of a dish or horn? We all know that you don't know the answer
> but there are qualified engineers in this group who possibly doand
> willing to share.
>
> Your antenna has nothing to do with dish antennas, bu rather plane
> reflectors (of which yours is way too small as Richard pointed out).
> I know we cannot change your opinion or teach you anything- so I am out of
> here.
>
> Dale W4OP

Dale, my response above was with respect to Richard not you, but I did
know you would run eventually. Study the math of Maxwell and Gauss
before you decide to take up teaching.

2082. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 02:30:41 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a783dcca-d15c-4ab4-a824-56bd6bb3923e@v28g2000vbb.googlegroups.com>
Source record: 16506

On Apr 10, 8:45 pm, Tom Ring <news0...@taring.org> wrote:
> Art Unwin wrote:
>
> > The posting is about dishes not antennas. I have not read about a dish
> > that does not emit signals to the rear. Now I have built one and find
> > to my surprize that it does accept signals from the rear ! All very
> > simple, the radiator is resting at the bottom of a cone and the top of
> > the radiator does not stick out beyond the reflector. Since you do not
>
> Well, to start with Art, a cone reflector doesn't meet the definition of
> a dish antenna.
>
> I'm sorry, but they just aren't the same thing.
>
> I surprizzzed you missed the difference.
>
> tom
> K0TAR

Tom
I asked the question as I am not personly knowledgable about dish
style reflectors.
I do read a lot and I read a paper once where it was found that a cone
shaped reflector produced increased gain when used with a helix
antenna, so I made one to try it out. Personaly I see it more as a
horn and not as a dish with a radiator at a phase control difference
from the reflector? Either way I do not understand how that I can hear
signals to the rear if the reflector envelope encloses the radiator
thus the question. Note that a helix radiates differently from the
normal dish radiator such that phasing does not enter the design which
is why you see planar dishes or "cups".
Thus questions with respect to reflector diameter are not
pertinentwhen the radiator is enclosed.

2083. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 02:51:45 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49e005ad$0$18863$8046368a@newsreader.iphouse.net>
Source record: 16507

Art Unwin wrote:\
> Tom
> I asked the question as I am not personly knowledgable about dish
> style reflectors.
> I do read a lot and I read a paper once where it was found that a cone
> shaped reflector produced increased gain when used with a helix
> antenna, so I made one to try it out. Personaly I see it more as a
> horn and not as a dish with a radiator at a phase control difference
> from the reflector? Either way I do not understand how that I can hear
> signals to the rear if the reflector envelope encloses the radiator
> thus the question. Note that a helix radiates differently from the
> normal dish radiator such that phasing does not enter the design which
> is why you see planar dishes or "cups".
> Thus questions with respect to reflector diameter are not
> pertinentwhen the radiator is enclosed.

He is _awfully_ funny, isn't he?

tom
K0TAR

2084. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 03:05:34 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b1820fcb-dbc2-4379-94a8-72e811a0fb48@q2g2000vbr.googlegroups.com>
Source record: 16508

On Apr 10, 9:30 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 10, 8:45 pm, Tom Ring <news0...@taring.org> wrote:
>
>
>
> > Art Unwin wrote:
>
> > > The posting is about dishes not antennas. I have not read about a dish
> > > that does not emit signals to the rear. Now I have built one and find
> > > to my surprize that it does accept signals from the rear ! All very
> > > simple, the radiator is resting at the bottom of a cone and the top of
> > > the radiator does not stick out beyond the reflector. Since you do not
>
> > Well, to start with Art, a cone reflector doesn't meet the definition of
> > a dish antenna.
>
> > I'm sorry, but they just aren't the same thing.
>
> > I surprizzzed you missed the difference.
>
> > tom
> > K0TAR
>
> Tom
> I asked the question as I am not personly knowledgable about dish
> style reflectors.
> I do read a lot and I read a paper once where it was found that a cone
> shaped reflector produced increased gain when used with a helix
> antenna, so I made one to try it out. Personaly I see it more as a
> horn and not as a dish with a radiator at a phase control difference
> from the reflector? Either way I do not understand how that I can hear
> signals to the rear if the reflector envelope encloses the radiator
> thus the question. Note that a helix radiates differently from the
> normal dish radiator such that phasing does not enter the design which
> is why you see planar dishes or "cups".
> Thus questions with respect to reflector diameter are not
> pertinentwhen the radiator is enclosed.

Guys
In the absence of a explanation I will provide a possible alternative.
Maxwell added a specific portion to his mathematical laws that refer
to mass and the speed of light thus verifying the existance of
particles. This addition brought statics laws into the radiation
sphere. Rutherford of the UK (Manchester)showed that particles could

piece a foil of gold because of the relative size of the particle with respect to the latice make up of the foil when viewed head on. Thus in the same way a particle or mass ejected at the speed of light from a radiator could possibly pierce a reflector when met head on.
If so this would explain the rear signals. In the case of a radiator that is not enclosed by the envelope of a reflector head on deflection/ interaction is quite possible and well understood and there are designs to avoid it. With respect to dish edges one can see in the radio handbook what happens to a signal grazing a sharp edge, but that seems hard to swallow when hams cling to the idea of radio "waves" when their actions has not been satisfactorily explained with respect to radiation by physicists.
I suggest that you all pick up the Gaussian equations and add the presence of a time varying field such that it is mathematically the same as one of Maxwell's laws ie
look for mass and light speed signatures. We are past the times when one could suppress ideas such as the World is not flat. When you finally arrive at the point of understanding of Maxwell you only then gain an understanding of radiation. With the denial of this mathematical evidence by all you have zero understanding of radiation and therefore redundant.
Bye

2085. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 06:15:55 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <90d0u4dm9ppf3lpjn74pbne89u0e8vndb4@4ax.com>
Source record: 16509

On Fri, 10 Apr 2009 20:05:34 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>In the absence of a explanation I will provide a possible alternative.
>... such as the World is not flat.

Which would, of course, mean that the dish (cone?) antenna?))
radiator?))) is not listening to signals from the back, but those that
have gone all the way around the World to the front to be heard now
with 3dB gain.

Nothing is broken, it is a S U C C E S S. Modern theory has proven
Alfred E Newton right!

Blimey-what. Me Worry, guv? (non Shakespeare, modern English).

73's
Richard Clark, KB7QHC

2086. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 06:31:32 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <odd0u4pht80t8lfaegi4m7i2ufj76psuq9@4ax.com>
Source record: 16510

On Fri, 10 Apr 2009 18:01:17 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>The posting is about dishes not antennas.

Are you offering recipes now? How to fill a 3 quart mixing bowl with
an imperial gallon of secret-sauce? I can anticipate the amazed
posting of how surprised you would be to find you need a mop there
too.

73's
Richard Clark, KB7QHC

2087. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 06:53:41 UTC
From: 328X1 <328X1.42622a8@radiobanter.com>
Message-ID: <328X1.42622a8@radiobanter.com>
Source record: 16514

Art Unwin;672460 Wrote:
> On Apr 10, 9:30*pm, Art Unwin ArthurUn...@gmail.com wrote:-
> On Apr 10, 8:45*pm, Tom Ring news0...@taring.org wrote:
>
>
> -
> Art Unwin wrote:-
> --
> The posting is about dishes not antennas. I have not read about a
> dish
> that does not emit signals to the rear. Now I have built one and
> find
> to my surprize that it does accept signals from the rear ! All very
> simple, the radiator is resting at the bottom of a cone and the top
> of
> the radiator does not stick out beyond the reflector. Since you do
> not--
> -
> Well, to start with Art, a cone reflector doesn't meet the definition
> of
> a dish antenna.-
> -
> I'm sorry, but they just aren't the same thing.-
> -
> I surprizzzed you missed the difference.-
> -
> tom
> K0TAR-
>
> Tom
> I asked the question as I am not personly knowledgable about dish
> style reflectors.
> I do read a lot and I read a paper once where it was found that a
> cone
> shaped reflector produced increased gain when used with a helix
> antenna, so I made one to try it out. Personaly I see it more as a
> horn and not as a dish with a radiator at a phase control difference
> from the reflector? Either way I do not understand how that I can
> hear
> signals to the rear if the reflector envelope encloses the radiator
> thus the question. Note that a helix radiates differently from the
> normal dish radiator such that phasing does not enter the design
> which
> is why you see planar dishes or "cups".

> Thus questions with respect to reflector diameter are not
> pertinentwhen the radiator is enclosed.-
>
> Guys
> In the absence of a explanation I will provide a possible alternative.
> Maxwell added a specific portion to his mathematical laws that refer
> to mass and the speed of light thus verifying the existance of
> particles. This addition brought statics laws into the radiation
> sphere. Rutherford of the UK (Manchester)showed that particles could
> piece a foil of gold because of the relative size of the particle with
> respect to the latice make up of the foil when viewed head on. Thus in
> the same way a particle or mass ejected at the speed of light from a
> radiator could possibly pierce a reflector when met head on.
> If so this would explain the rear signals. In the case of a radiator
> that is not enclosed by the envelope of a reflector head on
> deflection/
> interaction is quite possible and well understood and there are
> designs to avoid it. With respect to dish edges one can see in the
> radio handbook what happens to a signal grazing a sharp edge, but that
> seems hard to swallow when hams cling to the idea of radio "waves"
> when their actions has not been satisfactorily explained with respect
> to radiation by physicists.
> I suggest that you all pick up the Gaussian equations and add the
> presence of a time varying field such that it is mathematically the
> same as one of Maxwell's laws ie
> look for mass and light speed signatures. We are past the times when
> one could suppress ideas such as the World is not flat. When you
> finally arrive at the point of understanding of Maxwell you only then
> gain an understanding of radiation. With the denial of this
> mathematical evidence by all you have zero understanding of radiation
> and therefore redundant.
> Bye

You can argue till you're blue in the face, but in the 50+ years in the radio electronics field, both in civilian and military occupations, I have yet to see a single 'particle' [other than dust, perhaps] on any of the many oscilloscopes I've ever used. Conversely I seen countless 'waves'. I'll stick with the time tested term of RADIO WAVES.

--
328X1

2088. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 07:49:51 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <PuudnSz5iII91n3UnZ2dnUVZ_jCdnZ2d@posted.easystreetonline>
Source record: 16511

I don't see Art's postings except as they're quoted by others. But from what I'm seeing here, it looks like he's done a great experiment which graphically shows that radio waves don't act like particles. More experiments along this line weren't really necessary, since it's been known at least since Hertz's experiments in the 19th century. And anyone who took high school physics and watched the ripples in the ripple tank should be able to immediately predict what Art is describing. But I suppose the experiment and its results might prove enlightening for those readers who didn't take high school physics and who are nearly completely unacquainted with electromagnetics.

Roy Lewallen, W7EL

2089. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 08:21:12 UTC
From: Ian White GM3SEK <gm3sek@ifwtech.co.uk>
Message-ID: <N4Ch8eK4LF4JFAcn@ifwtech.co.uk>
Source record: 16512

Roy Lewallen wrote:
>I don't see Art's postings except as they're quoted by others. But from
>what I'm seeing here, it looks like he's done a great experiment which
>graphically shows that radio waves don't act like particles. More
>experiments along this line weren't really necessary, since it's been
>known at least since Hertz's experiments in the 19th century. And
>anyone who took high school physics and watched the ripples in the
>ripple tank should be able to immediately predict what Art is
>describing. But I suppose the experiment and its results might prove
>enlightening for those readers who didn't take high school physics and
>who are nearly completely unacquainted with electromagnetics.
>

Sorry, Roy, that experiment won't be possible. The bathtub is
permanently occupied by the wannabee Archimedes.

--

73 from Ian GM3SEK

2090. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 08:58:52 UTC
From: "Helmut Wabnig"
Message-ID: <fqm0u41te4ojqpa762no2vpi6ca7fthcqo@4ax.com>
Source record: 16513

On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>I made a helical end fed antenna that is inside a cone shaped
>reflector
>The reflector is made from 1/2" mesh steel with an aluminum foil liner
>and connected to the braid of the feed coax. No baluns are used, just
>direct connections.
> I was surprised to hear signals from the rear!
> I thought that a dish reflector prevented such signals getting to the
>receiver. So what can be wrong with the reflector or can signals get
>reflected back from the frontal area? Antenna is at a 40 foot height
>Any ideas as to what the fault could be?
>Regards
>Art
>I have no experience with dishes thus the question Note, the helical
>antenna does not protrude beyond the dish envelope.
>Art
How do you know?
The "rear" signals may come from the front side actually, having
been reflected by your neighbours house, or distant mountains,
or anything in between.

w.

2091. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 09:00:54 UTC
From: Jeff <jeff@local.host>
Message-ID: <49e0a8f6$0$9405$834e42db@reader.greatnowhere.com>
Source record: 16518

> Not to mention the fact that Newton wrote his laws of motion in Latin, and
> not in "olde english" (whatever that is). Art is fantasizing again.
> 73,
> Tom Donaly, KA6RUH

It is highly unlikely that Newton would have known Old English which went out of use in the 12th Century, he probably would not have even known Middle English, unless he was a avid reader of Chaucer. Modern English had been in use and developing since the 1500's, and by the time that Newton was postulating his theories in the late 1600's Modern English was that language of the day. However, scientific papers were written in Latin as this gave them a universal coverage amongst the scientific population.

Regards
Jeff

2092. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 11:28:19 UTC
From: Dave <noone@nowhere.com>
Message-ID: <n9%Dl.198$b11.4@nwrddc02.gnilink.net>
Source record: 16515

"Jim Kelley" <jwkelley@uci.edu> wrote in message
news:gro5gp$c3f$1@news.service.uci.edu...
> Art Unwin wrote:
>> Many on this newsgroup are aware of my views on radiation which I then
>> took to the QRZ antenna page because of the fraustration created by
>> lack of knowledge of equilibrium by the average american.
>> I have now run into another interpretation by americans which differ
>> from the european aspect and that is Newtons third law with respect to
>> reaction . Definitions on the net view this law as an equal and
>> diametrically opposite force where Newton never used the word
>> "diametrically". English law is based on the intention provided by the
>> words of the law such that it becomes unchanged thru time. American
>> law does not define "intention" thus the law can and does change over
>> time creating appeals against the intent of words.
>> One definition of Newton's law on the net shows two skaters pushing
>> against each other as an illustration of the law. But Newton's
>> "intent" was in the olde english where "opposite" was viewed in a
>> different way.
>> If you view a helicopter the front rotor is in a horizontal plane and
>> rotating clockwise thus per Newton the resulting action is a rotator
>> at the rear that is rotating in a "vertical " plane and rotating
>> counter clockwise to maintain equilibrium. Another example is a
>> caramel bar that is placed under tension which produces a force at
>> right angles that narrows the cross section and the sample fails in
>> shear at 45 degrees (vector resultant of the two forces)
>> I bring this up because of what I have stated earlier about radiation
>> on this newsgroup, where the applied force is electrical on a radiator
>> and per Newton the reaction is at right angle to that force which is
>> called the displacement current (capacitive magnetic field). No
>> wonder Einstein gave up on the pursuit of radiation because as a
>> german had no understanding of olde english and thus was looking for a
>> equal and diametrically opposite force in his search for the "weak
>> force." He was correct in his prediction of it's presence with respect
>> to radiation but, unfortunately, was looking in the wrong place and
>> thus relativity was born!
>> Regards
>> Art KB9MZ....XG (uk)
>
> Apparently when he couldn't unify Newtonian mechanics and electromagnetism
> he just gave up. You'll have to forgive the inadequacy of my American
> education. I guess they must know all about Newtonian electromagnetism
> wherever it is that you hail from.
>
> 73, ac6xg

>
>
>

no, he didn't give up, he moved to another forum to see how many other
suckers he could get to agree with him. check out:
http://forums.qrz.com/showthread.php?t=188750&highlight=kb9mz
but you have to be a 'member' to be able to reply on there.

2093. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 11:38:22 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Oi%DI.203$b11.172@nwrddc02.gnilink.net>
Source record: 16516

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:53023a50-6cec-485e-b1ec-649c105752e6@y13g2000yqn.googlegroups.com...
>Seems like the dish
>reflector does not get a lot of attention from ham operators !

certainly not by 160m ham operators! welcome back art, needed something to
brighten up a dreary saturday morning!

2094. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 14:18:29 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <dee51754-d98c-40b3-b98d-ecc0c0721237@g36g2000vbi.googlegroups.com>
Source record: 16517

On Apr 11, 1:53 am, 328X1 <328X1.4262...@radiobanter.com> wrote:
> Art Unwin;672460 Wrote:
>
>
>
> > On Apr 10, 9:30*pm, Art Unwin ArthurUn...@gmail.com wrote:-
> > On Apr 10, 8:45*pm, Tom Ring news0...@taring.org wrote:
>
> > -
> > Art Unwin wrote:-
> > --
> > The posting is about dishes not antennas. I have not read about a
> > dish
> > that does not emit signals to the rear. Now I have built one and
> > find
> > to my surprize that it does accept signals from the rear ! All very
> > simple, the radiator is resting at the bottom of a cone and the top
> > of
> > the radiator does not stick out beyond the reflector. Since you do
> > not--
> > -
> > Well, to start with Art, a cone reflector doesn't meet the definition
> > of
> > a dish antenna.-
> > -
> > I'm sorry, but they just aren't the same thing.-
> > -
> > I surprizzzed you missed the difference.-
> > -
> > tom
> > K0TAR-
>
> > Tom
> > I asked the question as I am not personly knowledgable about dish
> > style reflectors.
> > I do read a lot and I read a paper once where it was found that a
> > cone
> > shaped reflector produced increased gain when used with a helix
> > antenna, so I made one to try it out. Personaly I see it more as a
> > horn and not as a dish with a radiator at a phase control difference
> > from the reflector? Either way I do not understand how that I can
> > hear
> > signals to the rear if the reflector envelope encloses the radiator
> > thus the question. Note that a helix radiates differently from the

> > normal dish radiator such that phasing does not enter the design
> > which
> > is why you see planar dishes or "cups".
> > Thus questions with respect to reflector diameter are not
> > pertinentwhen the radiator is enclosed.-
>
> > Guys
> > In the absence of a explanation I will provide a possible alternative.
> > Maxwell added a specific portion to his mathematical laws that refer
> > to mass and the speed of light thus verifying the existance of
> > particles. This addition brought statics laws into the radiation
> > sphere. Rutherford of the UK (Manchester)showed that particles could
> > piece a foil of gold because of the relative size of the particle with
> > respect to the latice make up of the foil when viewed head on. Thus in
> > the same way a particle or mass ejected at the speed of light from a
> > radiator could possibly pierce a reflector when met head on.
> > If so this would explain the rear signals. In the case of a radiator
> > that is not enclosed by the envelope of a reflector head on
> > deflection/
> > interaction is quite possible and well understood and there are
> > designs to avoid it. With respect to dish edges one can see in the
> > radio handbook what happens to a signal grazing a sharp edge, but that
> > seems hard to swallow when hams cling to the idea of radio "waves"
> > when their actions has not been satisfactorily explained with respect
> > to radiation by physicists.
> > I suggest that you all pick up the Gaussian equations and add the
> > presence of a time varying field such that it is mathematically the
> > same as one of Maxwell's laws ie
> > look for mass and light speed signatures. We are past the times when
> > one could suppress ideas such as the World is not flat. When you
> > finally arrive at the point of understanding of Maxwell you only then
> > gain an understanding of radiation. With the denial of this
> > mathematical evidence by all you have zero understanding of radiation
> > and therefore redundant.
> > Bye
>
> You can argue till you're blue in the face, but in the 50+ years in the
> radio electronics field, both in civilian and military occupations, I
> have yet to see a single 'particle' [other than dust, perhaps] on any
> of the many oscilloscopes I've ever used. Conversely I seen countless
> 'waves'.   I'll stick with the time tested term of RADIO WAVES.
>
> --
> 328X1

What others have concluded by guessing is not a concern of mine.
Hams with respect to antennas always call for the supporting math as
they decry amateur measurements. The sad thing is that hams are not
familiar with mathematics.
It is quite clear that by adding a time varying field to the law of

statics it becomes proof of the validity of Maxwell'/s lawsand vica versa. Thus the presence of particles is also verufied.
Maxwell laws are based solely on distributed loads where lumped loads are completely avoided yet lumped loads generate electromagnetic fields. What is the explanation of this when Maxwells laws designate that which is required for maximum efficiency? To look like a wave is inmaterial since a particle at rest on a wave only changes amplitude, it does not follow the movement of water.
We then have the knowledge that the sun provides a stream of particles which arrive on Earth, billions of them and of the smallest size of particle known by man and most hams look to the Sun for predictions of dx activity. Why is this so? Maxwells law includes the speed of light with the inclusio,n of mass in his equations so how is this portion of mathematics included in planar forms that are formed around inductive coupling? We know that the weak force is stronger than gravity and is part of Maxwell's laws the same as we know that gravity does not overcome communication,
another recognition of particles as is the application of rotation to particles to maintain straight line projection and where this specific action is part and parcel of Maxwell's laws. Why do you all close your eyes to these known facts? Books of the present day are for making money not the disemination of facts. White papers are accepted if they have enought references to other publishings so dissemination of the truth is obviously not profitable, but plagarism is. And it all starts with the mathematical phenomina where all mathematics of the masters are used to provide the validity of his laws. Like other law's Gauss's law of Statics is also a proof of the validity of Maxwell's laws with respect to radiation and is accepted via mathematics protocol.
What is happening here is the rejection of the mathematical proof by radio hams, for if the validity is established change obviously occurs and change is seen as undesirable, thus the burial of heads in the sand. Yes, this time we will succeed in
our position it determining that the World is flat by denying the mathematics! All of this group is on record of rejecting the mathematics shown by Maxwell and Gauss by refusing to address it such that validity is denied and change does not come about.

2095. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 15:30:29 UTC
From: Mike Lucas <w5chr@bellsouth.net>
Message-ID: <Vy2EI.28991$19.4551@bignews2.bellsouth.net>
Source record: 16519

"Art Unwin" wrote:

>What others have concluded by guessing is not a concern of mine.
>Hams with respect to antennas always call for the supporting math as
>they decry amateur measurements. The sad thing is that hams are not
>familiar with mathematics.
>It is quite clear that by adding a time varying field to the law of
>statics it becomes proof of the validity of Maxwell'/s lawsand vica
>versa. Thus the presence of particles is also verufied.
>Maxwell laws are based solely on distributed loads where lumped loads
>are completely avoided yet lumped loads generate electromagnetic
>fields. What is the explanation of this when Maxwells laws designate
>that which is required for maximum efficiency? To look like a wave is
>inmaterial since a particle at rest on a wave only changes amplitude,
>it does not follow the movement of water.
>We then have the knowledge that the sun provides a stream of particles
>which arrive on Earth, billions of them and of the smallest size of
>particle known by man and most hams look to the Sun for predictions of
>dx activity. Why is this so? Maxwells law includes the speed of light
>with the inclusio,n of mass in his equations so how is this portion of
>mathematics included in planar forms that are formed around inductive
>coupling? We know that the weak force is stronger than gravity and is
>part of Maxwell's laws the same as we know that gravity does not
>overcome communication,
>another recognition of particles as is the application of rotation to
>particles to maintain straight line projection and where this specific
>action is part and parcel of Maxwell's laws. Why do you all close your
>eyes to these known facts? Books of the present day are for making
>money not the disemination of facts. White papers are accepted if they
>have enought references to other publishings so dissemination of the
>truth is obviously not profitable, but plagarism is. And it all starts
>with the mathematical phenomina where all mathematics of the masters
>are used to provide the validity of his laws. Like other law's Gauss's
>law of Statics is also a proof of the validity of Maxwell's laws with
>respect to radiation and is accepted via mathematics protocol.
>What is happening here is the rejection of the mathematical proof by
>radio hams, for if the validity is established change obviously occurs
>and change is seen as undesirable, thus the burial of heads in the
>sand. Yes, this time we will succeed in
>our position it determining that the World is flat by denying the
>mathematics! All of this group is on record of rejecting the
>mathematics shown by Maxwell and Gauss by refusing to address it such
>that validity is denied and change does not come about.

Art,Art,Art..... you are blithering again!

Mike W5CHR
Memphis

2096. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 15:54:17 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <I23EI.24374$Ws1.3823@nlpi064.nbdc.sbc.com>
Source record: 16520

Jeff wrote:
> It is highly unlikely that Newton would have known Old English which went
> out of use in the 12th Century, he probably would not have even known Middle
> English, unless he was a avid reader of Chaucer.

In what English is the King James version of the
Bible written?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2097. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:05:56 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <956a5683-40d6-46c4-8eef-7e58e52e4f9e@r3g2000vbp.googlegroups.com>
Source record: 16521

On Apr 11, 3:21 am, Ian White GM3SEK <gm3...@ifwtech.co.uk> wrote:
> Roy Lewallen wrote:
> >I don't see Art's postings except as they're quoted by others. But from
> >what I'm seeing here, it looks like he's done a great experiment which
> >graphically shows that radio waves don't act like particles. More
> >experiments along this line weren't really necessary, since it's been
> >known at least since Hertz's experiments in the 19th century. And
> >anyone who took high school physics and watched the ripples in the
> >ripple tank should be able to immediately predict what Art is
> >describing. But I suppose the experiment and its results might prove
> >enlightening for those readers who didn't take high school physics and
> >who are nearly completely unacquainted with electromagnetics.
>
> Sorry, Roy, that experiment won't be possible. The bathtub is
> permanently occupied by the wannabee Archimedes.
>
> --
>
> 73 from Ian GM3SEK

Ian
Both you and Roy project to the World that you are both experts with
respect to radiation. You write articles and both have had the
position of magazine advisors so I can assume that you feel you have a
firm grasp in physics or a good collection of books that you can
resort to for answers. The fact that both of you deny the mathematics
given by Gauyss and Maxwell is a constant surprise to me even tho a
mathematics person from MIT showed all the validity Of what I have
stated. Physics books revolve around Maxwell's laws and show many
instances where other laws
contribute to providing validity his and Newton's laws. Now I provide
another instance
where Gauss also provide validity to Maxwell's laws which have been
confirmed by independent sources. Yet Richard with a major in English
decided the mathematics supplied is in error and both of you, with the
masses, followed in lockstep yet both of you have degrees in the
subject at hand! Why is it that nobody with experience in physics has
come forward to prove me wrong ? Why do both of you refuse to provide
supporting evidence? Yes, you can come forward to discuss SWR and
similar things
yet your absence in not proving me in error is some what amasing. Both
of you tell the group why you cannot substantiate the mathematics
supplied with respect to radiation.If your mathematics or physics are
not up to it why not quote independent sources? Your stances are very

similar to when you worked with magazines that fooled the world with respect to antenna gain on behalf of gain to manufactures.
This newsgroup is for the edification and advancement of antenna knowledge to hams and yet both of you are instrumental in hiding the truth and thus have descended to Richard's level in the destruction of advancement in favour of projecting derision in place of knowledge.
Years ago Roy stated he would go to the ends of the Earth to destroy old housewives tails to clarify the science of radio communication but for some reason he cannot, or will not, prove this to be one of the same.
For the others, consult your teachers or professors or others skilled in the art and ask them the one simple question. Does the addition of a time varying field to the arbritary border of Gauss which contain static particles in equilibrium equal to and verify the laws established by Maxwell? Simple straight forward question which is denied by this group without possesion of the required facts that establishes their position.

2098. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:23:07 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <0u3El.26296$YU2.23463@nlpi066.nbdc.sbc.com>
Source record: 16522

Cecil Moore wrote:
> Jeff wrote:
>> It is highly unlikely that Newton would have known Old English which went
>> out of use in the 12th Century, he probably would not have even known
>> Middle
>> English, unless he was a avid reader of Chaucer.
>
> In what English is the King James version of the
> Bible written?

If you can understand it, it's Modern English.
Here's an example of Anglo Saxon English (Olde English for
Art): "Se halige Andreas him to cwaeth: 'Thine stefne ic gehiere, ac
ic ne wat hwaer thu art.'" Since Art knows "Olde English" he can
translate it for you.
Here's an example of Middle English from Robert Manning of Brunne's,
Handlyng Synne: "Ther were twey men of holy wyl That levyd togedyr
withouten yl, Alone in an ermytage, And as meke as bryd in kage; The
toon men call Eutycyus, The touther hyght Florentius."
(In both examples I substituted 'th' for the old thorn character.)
Hope this helps.
73,
Tom Donaly, KA6RUH

2099. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:26:09 UTC
From: Jeff <jeff@local.host>
Message-ID: <49e0c504$0$9403$834e42db@reader.greatnowhere.com>
Source record: 16523

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:I23El.24374$Ws1.3823@nlpi064.nbdc.sbc.com...
> Jeff wrote:
>> It is highly unlikely that Newton would have known Old English which went
>> out of use in the 12th Century, he probably would not have even known
>> Middle
>> English, unless he was a avid reader of Chaucer.
>
> In what English is the King James version of the
> Bible written?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Early Modern (or Renaissance) English, just like Shakespear.

Jeff

2100. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:33:39 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <HD3El.26297$YU2.4555@nlpi066.nbdc.sbc.com>
Source record: 16524

Roy Lewallen wrote:
> I don't see Art's postings except as they're quoted by others. But from
> what I'm seeing here, it looks like he's done a great experiment which
> graphically shows that radio waves don't act like particles. More
> experiments along this line weren't really necessary, since it's been
> known at least since Hertz's experiments in the 19th century. And anyone
> who took high school physics and watched the ripples in the ripple tank
> should be able to immediately predict what Art is describing. But I
> suppose the experiment and its results might prove enlightening for
> those readers who didn't take high school physics and who are nearly
> completely unacquainted with electromagnetics.
>
> Roy Lewallen, W7EL

Art has probably been led astray by reading popular accounts of the
wave-particle duality ideas of quantum mechanics. A little reading can
be a dangerous thing.
73,
Tom Donaly, KA6RUH

2101. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:43:23 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GG3El.15470$8_3.11768@flpi147.ffdc.sbc.com>
Source record: 16525

Tom Donaly wrote:
> If you can understand it, it's Modern English.

Well, I've never been able to understand "The Bible"
so it must not be Modern English. :-) I've heard
that particular English called the "King's English".
Is that an accurate description?

I have re-translated "The Bible". It starts out:
"In the beginning, God created the Big Bang, which
caused time to stand relatively still because all
particles were moving at nearly the speed of light."

Off-topic question: Should we stone adulterers or
not? :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2102. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:46:07 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <fJ3El.15471$8_3.1281@flpi147.ffdc.sbc.com>
Source record: 16526

Tom Donaly wrote:
> Art has probably been led astray by reading popular accounts of the
> wave-particle duality ideas of quantum mechanics. A little reading can
> be a dangerous thing.

If one expects a wave, one will measure a wave.
If one expects a particle, one will measure a particle.
Do human expectations dictate reality or vice versa?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2103. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:52:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a157789e-853c-4183-828f-45b5463331db@r3g2000vbp.googlegroups.com>
Source record: 16527

On Apr 11, 11:33 am, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> Roy Lewallen wrote:
> > I don't see Art's postings except as they're quoted by others. But from
> > what I'm seeing here, it looks like he's done a great experiment which
> > graphically shows that radio waves don't act like particles. More
> > experiments along this line weren't really necessary, since it's been
> > known at least since Hertz's experiments in the 19th century. And anyone
> > who took high school physics and watched the ripples in the ripple tank
> > should be able to immediately predict what Art is describing. But I
> > suppose the experiment and its results might prove enlightening for
> > those readers who didn't take high school physics and who are nearly
> > completely unacquainted with electromagnetics.
>
> > Roy Lewallen, W7EL
>
> Art has probably been led astray by reading popular accounts of the
> wave-particle duality ideas of quantum mechanics. A little reading can
> be a dangerous thing.
> 73,
> Tom Donaly, KA6RUH

Tom
If you have read a lot or have physics instruction step forward and
provide the mathematics of Gauss law of static particles with the
addition of a time varying field.
Deeds are more powerfull than words, prove me in error and be a herio

2104. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 16:57:00 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4faff945-12a3-4528-b532-eb96d520ff24@o30g2000vbc.googlegroups.com>
Source record: 16528

On Apr 11, 11:46 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Tom Donaly wrote:
> > Art has probably been led astray by reading popular accounts of the
> > wave-particle duality ideas of quantum mechanics. A little reading can
> > be a dangerous thing.
>
> If one expects a wave, one will measure a wave.
> If one expects a particle, one will measure a particle.
> Do human expectations dictate reality or vice versa?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

You are absolutely correct. Time and modern instruments has proved it
so.
Now we have to retrain the thinking of old people that resist change.
But all we have at hand are people that are old and unskilled in the
arts.

2105. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 17:01:56 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <de382285-2412-43b2-8444-722875d7e895@g20g2000vba.googlegroups.com>
Source record: 16529

On Apr 11, 11:46 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Tom Donaly wrote:
> > Art has probably been led astray by reading popular accounts of the
> > wave-particle duality ideas of quantum mechanics. A little reading can
> > be a dangerous thing.
>
> If one expects a wave, one will measure a wave.
> If one expects a particle, one will measure a particle.
> Do human expectations dictate reality or vice versa?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil, I posted this same stuff on the qrz antenna forum which is
followed by the majority of hams around the World. It is now close to
the 4000 hits mark , I find it interesting the difference in thinking
between the different news groups where only a few can manipulate the
whole to attack.

2106. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 17:34:07 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <hw4El.23079$c45.8165@nlpi065.nbdc.sbc.com>
Source record: 16530

Art Unwin wrote:
> You are absolutely correct.

Art, all you have to do is convince people to change
their expectations and their outcomes will change. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2107. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 17:38:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jA4El.23080$c45.7594@nlpi065.nbdc.sbc.com>
Source record: 16531

Art Unwin wrote:
> I find it interesting the difference in thinking
> between the different news groups where only a few can manipulate the
> whole to attack.

I cannot beat Will Roger's advice: "Be sure you are
right, and then go on ahead."

For instance, I'm absolutely sure I am right about
the delay through a 75m bugcatcher loading coil
which I have actually measured on the bench.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2108. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 18:04:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ksm1u412j0rdhucirjksieh3tfjgs2ktd3@4ax.com>
Source record: 16532

On Sat, 11 Apr 2009 11:43:23 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>I have re-translated "The Bible".

>Off-topic question: Should we stone adulterers or
>not? :-)

If you write like you are stoned, does that make you an adulterer?

73's
Richard Clark, KB7QHC

2109. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 18:13:31 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <51n1u4lbc5hetr7th9tmpbtrpphjiffn2n@4ax.com>
Source record: 16533

On Sat, 11 Apr 2009 09:52:50 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:
>Deeds are more powerfull than words, prove me in error and be a herio

On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:
>I was surprised to hear signals from the rear!

It is all in connecting the dots.

If what above from one author only is beyond comprehension because of
language, it isn't Shakespeare's fault. If it is not logical, it is
not Gauss' fault. If it doesn't work, it isn't Newton's fault. If it
doesn't make sense, it isn't Einstein's fault.

If there is a problem, note only the author of both statements (who
blames Shakespeare, Gauss, Newton, Einstein - and is Galileo miffed,
standing behind the curtain?).

73's
Richard Clark, KB7QHC

2110. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 18:37:21 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c56a3995-1b91-48a6-813b-8e019170b886@g36g2000vbi.googlegroups.com>
Source record: 16534

On Apr 11, 1:13 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Sat, 11 Apr 2009 09:52:50 -0700 (PDT), Art Unwin
>
> <ArthurUn...@gmail.com> wrote:
> >Deeds are more powerfull than words, prove me in error and be a herio
>
> On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>
> <ArthurUn...@gmail.com> wrote:
> >I was surprised to hear signals from the rear!
>
> It is all in connecting the dots.
>
> If what above from one author only is beyond comprehension because of
> language, it isn't Shakespeare's fault. If it is not logical, it is
> not Gauss' fault. If it doesn't work, it isn't Newton's fault. If it
> doesn't make sense, it isn't Einstein's fault.
>
> If there is a problem, note only the author of both statements (who
> blames Shakespeare, Gauss, Newton, Einstein - and is Galileo miffed,
> standing behind the curtain?).
>
> 73's
> Richard Clark, KB7QHC

Don't send 73s to me!
I am married with children and have no inclination to
have people such as you in my friendship group. I am wired differently
from you tho I do suspect there may be others here who are wired the
same and willing to follow your direction. You are a troubled man with
endless posts that contain nothing about antennas and only reveal
yourself to others like you exactly who you are, as well as your
needs. Majoring in the english language by suplimentation of the years
spent at sea does nothing to enhance your knowledge of physics. You
are what you appear to be, a fraud that is also wired different from
others in search in those of your own kind that are conditioned to
attack the norm. I suggest you go back to live with your shipmates
again where you were happy and desired.

2111. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 18:52:05 UTC
From: Dave <noone@nowhere.com>
Message-ID: <pF5EI.285$b11.226@nwrddc02.gnilink.net>
Source record: 16535

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:a157789e-853c-4183-828f-45b5463331db@r3g2000vbp.googlegroups.com...

>If you have read a lot or have physics instruction step forward and
>provide the mathematics of Gauss law of static particles with the
>addition of a time varying field.

the simplest form to put in words is: the divergence of E is proportional
to the charge density. the constant of proportionality depends on the units
chosen of course. This is exactly the form used in Maxwell's equations for
time varying fields.

2112. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 19:00:44 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <4hp1u4l5fn04e1j8qmdp4c834emrbnqqvb@4ax.com>
Source record: 16536

On Sat, 11 Apr 2009 11:37:21 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>I am wired differently
>from you tho I do suspect there may be others here who are wired the
>same and willing to follow your direction.

Yes Arthru,

We know you are gay-baiting with these sly comments. Testosterone
deficiency seems to motivate your hostility when you run out of
technical discussion. It so closely attends failure, confusion, and
wandering thoughts (which never seem to stray from sex, however).
From the generous sub-text of these interests foremost in your mind, I
should certainly hesitate to offer

88's
Richard Clark, KB7QHC ;-)

OR

You could simply observe your own "differently wired" statements:
On Sat, 11 Apr 2009 09:52:50 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:
>Deeds are more powerfull than words, prove me in error and be a herio

On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:
>I was surprised to hear signals from the rear!

Which of these "wires" conducts?

2113. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 19:36:41 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <65a37cd6-6a4e-418f-93b2-aa4c708c1d98@s28g2000vbp.googlegroups.com>
Source record: 16538

On Apr 11, 1:52 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:a157789e-853c-4183-828f-45b5463331db@r3g2000vbp.googlegroups.com...
>
> >If you have read a lot or have physics instruction step forward and
> >provide the mathematics of Gauss law of static particles with the
> >addition of a time varying field.
>
> the simplest form to put in words is: the divergence of E is proportional
> to the charge density. the constant of proportionality depends on the units
> chosen of course. This is exactly the form used in Maxwell's equations for
> time varying fields.

Just words
Supply the math or printed context that support your reasoning with
facts.
All these years of denial without supporting evidence. You couldn't
provide such to
the guy(A doctorate no less) from MIT to convince him he was wrong
either.
David you over estimate your abilities. Richard Harrison who spent his
life with
Radio America finally went back to the books and then apologised for
backing your position because his books backed my position . You
graduated many many years ago and failed to keep up. Now science has
overtaken you. Remember your comment?
Statics has nothing to do with with radiation.
Proof given, nothing other than you said so. And you chose to
follow the wierdo Richard in the attack. And Roy and others followed
in line like lemons. Perhaps you and I should have a talk on top band
where you can verbally deny that I have a rotatable antenna to your
cohorts and where they in the same tone demand more information or
proof.

2114. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 19:48:02 UTC
From: joe <none@invalid.com>
Message-ID: <Ig6El.41479$_R4.29587@newsfe11.iad>
Source record: 16537

Art Unwin wrote:

>
> I am not avoiding questions, just those that appear irrelevant, but
> here goes Anything to make you happy, this should be interesting how
> you use these answers with respect to the posted question
>
> 1 160 metres upto 2 metres, tunable
>
> 2 2 metres
>
> 3 Doesn't have a focal length, it is an end fed (series connection)
> helix antenna.
>
> At least to the best of my knowledge which is why I posed the question
> Hopefully we will all stay on subject and not get side tracked. I will
> leave it to others to respond to Richard when they determine what he
> is talking about.

While this provide some details regarding your antenna, it is not sufficient for me to visualize it.

If one can't visualize what you are talking about, getting help with your questions will be difficult.

You could try a simple experiment: Remove the active part of your antenna and replace it with a dummy load. Leave the reflector/dish/whatever in place. If you still pick up signals, then the antenna itself may not be the problem.

By 'active part', I mean the helix antenna.

You have a web site, a link to a picture would help me understand what you are doing.

2115. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 19:52:25 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <30b637b1-a3eb-4bf2-9c19-0df9a2e6aee2@e24g2000vbe.googlegroups.com>
Source record: 16539

On Apr 11, 2:00 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Sat, 11 Apr 2009 11:37:21 -0700 (PDT), Art Unwin
>
> <ArthurUn...@gmail.com> wrote:
> >I am wired differently
> >from you tho I do suspect there may be others here who are wired the
> >same and willing to follow your direction.
>
> Yes Arthru,
>
> We know you are gay-baiting with these sly comments. Testosterone
> deficiency seems to motivate your hostility when you run out of
> technical discussion. It so closely attends failure, confusion, and
> wandering thoughts (which never seem to stray from sex, however).
> From the generous sub-text of these interests foremost in your mind, I
> should certainly hesitate to offer
>
> 88's
> Richard Clark, KB7QHC   ;-)
>
> OR
>
> You could simply observe your own "differently wired" statements:
> On Sat, 11 Apr 2009 09:52:50 -0700 (PDT), Art Unwin
>
> <ArthurUn...@gmail.com> wrote:
> >Deeds are more powerfull than words, prove me in error and be a herio
>
> On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>
> <ArthurUn...@gmail.com> wrote:
> >I was surprised to hear signals from the rear!
>
> Which of these "wires" conducts?

You have never debated ! You have only attacked others. If you kept to
antennas
how you are wired would not have mattered as it goes along with the
title of this newsgroup. You could have debated the good Dr from MIT
with respect to mathematics but you chose to insult.He with a
doctorate being denigrated by an english major! No wonder the
technically advantaged don't stay long on this newsgroup
Why not have a debate with Cecil where you can supply facts instead
of attacks in a debate about phase changes with the facts you learned

from Shakesphere, I am sure you learned a lot dressed in those log
legged mesh pants as
you prance around the stage. I thought you were proud of what you are.

2116. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 19:57:57 UTC
From: Dave <noone@nowhere.com>
Message-ID: <9D6EI.288$b11.84@nwrddc02.gnilink.net>
Source record: 16540

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:65a37cd6-6a4e-418f-93b2-aa4c708c1d98@s28g2000vbp.googlegroups.com...
On Apr 11, 1:52 pm, "Dave" <no...@nowhere.com> wrote:
>Just words
>Supply the math or printed context that support your reasoning with
>facts.

unfortunately this media restricts us to words, but any phd worth his salt could reconstruct the equation in symbols from my description. does: "del dot E = rho" make it any clearer? if not, look up page 33 of the 2nd edition of jackson's classical electrodynamics. and then compare that with the statement of maxwell's equations on page 2.

2117. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 20:00:27 UTC
From: Dave <noone@nowhere.com>
Message-ID: <vF6El.289$b11.152@nwrddc02.gnilink.net>
Source record: 16541

"joe" <none@invalid.com> wrote in message
news:Ig6El.41479$_R4.29587@newsfe11.iad...
> Art Unwin wrote:
>
>>
>> I am not avoiding questions, just those that appear irrelevant, but
>> here goes Anything to make you happy, this should be interesting how
>> you use these answers with respect to the posted question
>>
>> 1 160 metres upto 2 metres, tunable
>>
>> 2 2 metres
>>
>> 3 Doesn't have a focal length, it is an end fed (series connection)
>> helix antenna.
>>
>> At least to the best of my knowledge which is why I posed the question
>> Hopefully we will all stay on subject and not get side tracked. I will
>> leave it to others to respond to Richard when they determine what he
>> is talking about.
>
>
> While this provide some details regarding your antenna, it is not
> sufficient
> for me to visualize it.

take an aluminum foil dunce cap, wide a curly pigs tail helix inside of it
and feed it with coax. most likely he attached the shield to the foil and
the center conductor to the helix, so all he has is an ugly dipole all
folded up on itself at hf. he would be better off putting the dunce cap
over his head to prevent damage from the brain probes.

2118. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 20:10:46 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <95340fa8-a170-4b1f-895e-57610d405ca9@n17g2000vba.googlegroups.com>
Source record: 16542

On Apr 11, 2:48 pm, joe <n...@invalid.com> wrote:
> Art Unwin wrote:
>
> > I am not avoiding questions, just those that appear irrelevant, but
> > here goes Anything to make you happy, this should be interesting how
> > you use these answers with respect to the posted question
>
> > 1 160 metres upto 2 metres, tunable
>
> > 2 2 metres
>
> > 3 Doesn't have a focal length, it is an end fed (series connection)
> > helix antenna.
>
> > At least to the best of my knowledge which is why I posed the question
> > Hopefully we will all stay on subject and not get side tracked. I will
> > leave it to others to respond to Richard when they determine what he
> > is talking about.
>
> While this provide some details regarding your antenna, it is not sufficient
> for me to visualize it.
>
> If one can't visualize what you are talking about, getting help with your
> questions will be difficult.
>
> You could try a simple experiment: Remove the active part of your antenna
> and replace it with a dummy load. Leave the reflector/dish/whatever in
> place. If you still pick up signals, then the antenna itself may not be the
> problem.
>
> By 'active part', I mean the helix antenna.
>
> You have a web site, a link to a picture would help me understand what you
> are doing.

Joe
This debate has been going on for years. It is all in the archives. I
am not interested
in hearing the cacophony of sound all over again every time a newcomer
comes along
Believe it or not this thread started with a question and you may have
read the responses. You may not be different from the others and time
would be wasted again.
Read the archives for yourself instead of asking favours of me, it is

all printed in the archives and it goes back half a dozen years or more. If you are a qualified engineer like me it will take only a short time to get to the gist of the material and possibly fall in place with your support. But I will not hold my breath. Note Both previous advisors
of Radcom amateur radio magazine in the UK and also Roy formerly of QST have formally debunked my position in public tho neither has provided proof so you might want to use your time else where
Or maybe hook up with Richard. wink wink !! Either way I am readying to get out of here again these guys are ruthless.
Nothing personal intended

2119. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-11 20:41:24 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ad537b84-1b63-4a53-a029-90ec546c19fb@21g2000vbk.googlegroups.com>
Source record: 16543

On Apr 11, 2:57 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:65a37cd6-6a4e-418f-93b2-aa4c708c1d98@s28g2000vbp.googlegroups.com...
> On Apr 11, 1:52 pm, "Dave" <no...@nowhere.com> wrote:
>
> >Just words
> >Supply the math or printed context that support your reasoning with
> >facts.
>
> unfortunately this media restricts us to words, but any phd worth his salt
> could reconstruct the equation in symbols from my description. does: "del
> dot E = rho" make it any clearer? if not, look up page 33 of the 2nd
> edition of jackson's classical electrodynamics. and then compare that with
> the statement of maxwell's equations on page 2.

David look up Newtons laws and make note of the mathematics that
dictate the presence of a displacement current is used to impact with
mass at the speed of light.
Find out why Maxwell was impelled to insert it into his formue when he
could not identify or verify the legitimacy of such an insertion. He
was a mathematicion who followed the laws of mathematic which also
follows the laws of Newton.
To check his formula legitimacy he had to place his formula to one
side of the equal sign and prove that the equation equated to zero
(from the universal understanding of
cosmos equilibrium) He found that his formula did not equal zero ! So
what could he do for it to make it zero as required? He decided to
cancel out what metrics that he could and then added the extra
required metrics that would cancel out the remaining metrics. Yup the
final equation equaled zero where his insertion predicted the presence
of the weak force acting on a mass or particle.
It was years before Foucault identified what Maxwell had added and
Einstein never identified the weak force metrics that Maxwell placed
right in front of him.
Now we have antenna computer programs that are based on Maxwells laws
that include displacement current where they are programmed to change
what has been inserted to conform with Maxwells laws(optimisation
programs) and not the pre conceived planar design.
And guess what? They do reject pre conceived ideas such as the Yagi
and other planar designs that depend solely of intermagnetic coupling
and place designs that
are in agreement with Maxwell's laws which include the presence of
particlesfor maximum efficiency of radiation.

Now since the laws of Maxwell drops firmly on the side of particles instead of waves the amateur fraternity feel compelled to discredit computer programs such that there position is maintained and change is not required.
And the World continues to waddle in the garbage by ignoring the accompanying smell. My oh my.
Qudoes to this newsgroup for leading the charge against change
Art Unwin KB9MZ.....xg (uk)

2120. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 01:46:21 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <daf2u4h12vun0juegce4bbr58a53oq5ftr@4ax.com>
Source record: 16544

On Sat, 11 Apr 2009 12:52:25 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>> On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>> <ArthurUn...@gmail.com> wrote:
>> >I was surprised to hear signals from the rear!
...
>
>You have never debated !

That is for the hooded monks who utter prayers as they beat religion
into those who are not converted.

>You could have debated the good Dr from MIT
>with respect to mathematics but you chose to insult.He with a
>doctorate being denigrated by an english major!

You make him sound like a milk-sop whimpering in the street. (For all
your breast-beating tears for his plight, can't you at least remember
his name?) According to you, your leviathan of intellect whose shadow
you stand in has been trounced by a swish who studied English! I like
how you mince through your charges of brutality to then daintily wedge
the gay-baiting into your invective:
>I am sure you learned a lot dressed in those log
>legged mesh pants as
>you prance around the stage. I thought you were proud of what you are.
You really have an over-active imagination that keeps returning to
these curious fantasies. You spend more effort pruning these little
bouquets than actually staying on topic. What you choose to focus on
is entirely up to you. Let's see how you handle:

>> On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>>
>> <ArthurUn...@gmail.com> wrote:
>> >I was surprised to hear signals from the rear!
Can you respond to the technical content of its conflict with your
next statement:
>> <ArthurUn...@gmail.com> wrote:
>> >Deeds are more powerfull than words, prove me in error and be a herio

I don't mind if you abandon your own claims to their poverty, no one
else will hug these destitute urchins either.

73's
Richard Clark, KB7QHC

2121. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 08:59:05 UTC
From: Jeff <jeff@local.host>
Message-ID: <49e1adbf$0$9402$834e42db@reader.greatnowhere.com>
Source record: 16545

> Well, I've never been able to understand "The Bible"
> so it must not be Modern English. :-) I've heard
> that particular English called the "King's English".
> Is that an accurate description?

No!

King's (Queen's) English is used to describe 'correct' English, as opposed to slang or poor grammar etc..

The English in the King James Bible is correctly described as Early Modern (or Renaissance) English.

73
Jeff

> I have re-translated "The Bible". It starts out:
> "In the beginning, God created the Big Bang, which
> caused time to stand relatively still because all
> particles were moving at nearly the speed of light."
>
> Off-topic question: Should we stone adulterers or
> not? :-)
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2122. Dayton 2009 anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 12:37:45 UTC
From: ml <m@di.net>
Message-ID: <m-93BFA0.08374512042009@news.optonline.net>
Source record: 16546

hi

Was just wondering if perhaps some people I know here might be going
to Dayton Hamfest and if so might wish to meet up for a quick
eyeball?

2123. Re: Dayton 2009 anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 13:04:49 UTC
From: Dave <noone@nowhere.com>
Message-ID: <RFIEl.407$b11.287@nwrddc02.gnilink.net>
Source record: 16547

"ml" <m@di.net> wrote in message
news:m-93BFA0.08374512042009@news.optonline.net...
> hi
>
> Was just wondering if perhaps some people I know here might be going
> to Dayton Hamfest and if so might wish to meet up for a quick
> eyeball?

they serve eyeballs at dayton? i must have missed that booth.

2124. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 14:37:16 UTC
From: Dave <noone@nowhere.com>
Message-ID: <w0nEl.423$b11.249@nwrddc02.gnilink.net>
Source record: 16548

<nm5k@wt.net> wrote in message
news:d3f8dabc-6b68-4827-8dc7-137b71174591@y10g2000prc.googlegroups.com...
On Apr 11, 11:57 am, Art Unwin <ArthurUn...@gmail.com> wrote:

>> But all we have at hand are people that are old and unskilled in the
>> arts.
>Hummmm.... :/ 2009-1934= old fart... Chortle..

and self-confessed unskilled.

2125. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 19:09:38 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <q0c4u4596uh10nq5r4osu8jd3bveragode@4ax.com>
Source record: 16549

*** Exordium ***
My dear Artifice, knowing your attachment to the practices of time out of mind as indulged by the hooded monks whipping religion into their young charges; I took a special effort to prepare you a debate with it demarked by the classic degrees that you will note in *** stars ***

*** accumulatio ***
>I have no experience with dishes
This is our first clue which you then elaborate with:
>Rutherford of the UK (Manchester)showed that particles could
>piece a foil of gold
Your dish is of inferior craftmanship in that it is certainly not gold:
>The reflector is made from 1/2" mesh steel with an aluminum foil liner

*** Narratio ***
One would note that there is a world of antennas made with neither gold, nor aluminum (isn't it aluminium?) foil, but thinner metal foil on mylar or plastic. They work fine and do not suffer failure such as yours. It would seem they are Rutherford partical resistant and do not conform to your theory of a weekend farce. This is no surprise as Margaret Rutherford was an English actress who played in the flamboyant Oscar Wilde's "The Importance of Being Earnest." Your work, as disappointing as it is does qualify as being earnest.

*** Divisio ***
However, one must observe the cautionary tale that inhabits that more important (than your) work of Wilde's:

Jack - My dear Algy, you talk exactly as if you were a dentist.
It is very vulgar to talk like a dentist when one isn't a dentist.
It produces a false impression.

One could insert "antenna designer" for "dentist" to the same effect.
As for your fond attachment to Margaret Rutherford, let us take a leaf from the script where she appears in full character of Miss prism:

Lady Bracknell - Is this Miss prism a female of repellent aspect, remotely connected with education? It contained the manuscript of a three-volume novel of more than usually revolting sentimentality.

Miss prism - [grows pale and quails. She looks anxiously round as if desirous to escape.]

*** Confirmatio ***
Let's see, Oscar Wilde wrote this at the end of the 19th century,

where much of your reading has been stalled in arrested development.
There is a reference to large written works (three volumes). The
implication being offered is such rambling work can be easily summed
up as the usually revolting sentimentality. And it is all brought
together in the character played by Margaret Rutherford. It shouldn't
take a leap of intelligence to note her character name of prism, and
the work done with prisms by Newton.

*** Peroratio ***
> I was surprised to hear signals from the rear!

Lady Bracknell - This noise is extremely unpleasant.
It sounds as if he was having an argument.
I dislike arguments of any kind.
They are always vulgar, and often convincing.

73's
Richard Clark, KB7QHC

2126. Re: Dayton 2009 anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 19:58:46 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <scydncf4FdJl2n_UnZ2dnUVZ_t-dnZ2d@posted.easystreetonline>
Source record: 16550

Stop by my booth (#504) and say hello.

Roy Lewallen, W7EL

ml wrote:
> hi
>
> Was just wondering if perhaps some people I know here might be going
> to Dayton Hamfest and if so might wish to meet up for a quick
> eyeball?

2127. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 20:21:09 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <aed88f3a-9d61-4610-9db6-377c596b8b6f@e21g2000yqb.googlegroups.com>
Source record: 16451

On Apr 12, 3:09 pm, Richard Clark <kb7...@comcast.net> wrote:
> *** Exordium ***
> My dear Artifice, knowing your attachment to the practices of time out
> of mind as indulged by the hooded monks whipping religion into their
> young charges; I took a special effort to prepare you a debate with it
> demarked by the classic degrees that you will note in *** stars ***
>
> *** accumulatio ***>I have no experience with dishes
>
> This is our first clue which you then elaborate with:>Rutherford of the UK (
Manchester)showed that particles could
> >piece a foil of gold
>
> Your dish is of inferior craftmanship in that it is certainly not
> gold:
>
> >The reflector is made from 1/2" mesh steel with an aluminum foil liner
>
> *** Narratio ***
> One would note that there is a world of antennas made with neither
> gold, nor aluminum (isn't it aluminium?) foil, but thinner metal foil
> on mylar or plastic. They work fine and do not suffer failure such as
> yours. It would seem they are Rutherford partical resistant and do
> not conform to your theory of a weekend farce. This is no surprise as
> Margaret Rutherford was an English actress who played in the
> flamboyant Oscar Wilde's "The Importance of Being Earnest." Your
> work, as disappointing as it is does qualify as being earnest.
>
> *** Divisio ***
> However, one must observe the cautionary tale that inhabits that more
> important (than your) work of Wilde's:
>
> Jack - My dear Algy, you talk exactly as if you were a dentist.
>   It is very vulgar to talk like a dentist when one isn't a dentist.
>   It produces a false impression.
>
> One could insert "antenna designer" for "dentist" to the same effect.
> As for your fond attachment to Margaret Rutherford, let us take a leaf
> from the script where she appears in full character of Miss prism:
>
> Lady Bracknell - Is this Miss prism a female of repellent aspect,
>   remotely connected with education? It contained the manuscript of
> a three-volume novel of more than usually revolting
>   sentimentality.

>
> Miss prism - [grows pale and quails. She looks anxiously round as if
>   desirous to escape.]
>
> *** Confirmatio ***
> Let's see, Oscar Wilde wrote this at the end of the 19th century,
> where much of your reading has been stalled in arrested development.
> There is a reference to large written works (three volumes). The
> implication being offered is such rambling work can be easily summed
> up as the usually revolting sentimentality. And it is all brought
> together in the character played by Margaret Rutherford. It shouldn't
> take a leap of intelligence to note her character name of prism, and
> the work done with prisms by Newton.
>
> *** Peroratio ***
>
> > I was surprised to hear signals from the rear!
>
> Lady Bracknell - This noise is extremely unpleasant.
>   It sounds as if he was having an argument.
>   I dislike arguments of any kind.
>   They are always vulgar, and often convincing.
>
> 73's
> Richard Clark, KB7QHC

This thread is hilarious ROTFLAMO . I just cant figure who is the
comic and whio is the straight man.

Welcome back Art, You may know nothing of antennas but you are
certainly the master of tolls.

Jimmie

2128. Re: Dayton 2009 anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 21:56:24 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <KNKdnR1Ep7gX_n_UnZ2dnUVZ_jZi4p2d@posted.easystreetonline>
Source record: 16452

Roy Lewallen wrote:
> Stop by my booth (#504) and say hello.

Correction -- booth is #514. I'd love to have any newsgroup posters/lurkers stop by and chat.

Roy Lewallen, W7EL

2129. Re: Dayton 2009 anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-12 22:07:22 UTC
From: ml <m@di.net>
Message-ID: <m-279421.18072212042009@news.optonline.net>
Source record: 16453

In article <scydncf4FdJl2n_UnZ2dnUVZ_t-dnZ2d@posted.easystreetonline>,
Roy Lewallen <w7el@eznec.com> wrote:

> Stop by my booth (#504) and say hello.
>
> Roy Lewallen, W7EL
>
> ml wrote:
> > hi
> >
> > Was just wondering if perhaps some people I know here might be going
> > to Dayton Hamfest and if so might wish to meet up for a quick
> > eyeball?

Hi Roy

Definately look foward to putting a face to so many great posts!

2130. Corner reflector antenna source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 00:23:53 UTC
From: Tom Horne <hornetd@verizon.net>
Message-ID: <tCvEl.546$WK5.271@nwrddc01.gnilink.net>
Source record: 16454

Would anyone now of a source for corner reflector antennas for two
meters other than home brew? Since Arrow antennas discontinued it's
line of corner reflector antennas I know of no source for ready made ones.
--
Tom Horne

"This alternating current stuff is just a fad. It is much too dangerous
for general use." Thomas Alva Edison

2131. Re: Corner reflector antenna source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 02:17:58 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <d4697836-ae0b-4d35-aa90-481c8f9d3f99@v19g2000yqn.googlegroups.com>
Source record: 16455

On Apr 12, 8:23 pm, Tom Horne <horn...@verizon.net> wrote:
> Would anyone now of a source for corner reflector antennas for two
> meters other than home brew? Since Arrow antennas discontinued it's
> line of corner reflector antennas I know of no source for ready made ones.
> --
> Tom Horne
>
> "This alternating current stuff is just a fad. It is much too dangerous
> for general use." Thomas Alva Edison

Gee, I figure that thing is going to be about 9 ft tall and 4.5 ft
wide. Thats a big chunk of metal for 12 db of gain.

Jimmie

2132. Re: WTB: Cushcraft XM240

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 02:58:46 UTC
From: "k9nj@arrl.net" <k9nj@arrl.net>
Message-ID: <a48f29f8-455c-4be9-9330-f870eab70917@f1g2000prb.googlegroups.com>
Source record: 16456

On Mar 15, 12:13 pm, N3BJ <N...@cox.net> wrote:
> Anyone have one that is surplus ? Will be attending Raleigh, Dayton
> and other hamfests in the PA/MD/VA/NC areas and can travel a bit if
> pick up is required.

Are you still looking for Gem Quad spreaders? I might have some
available for you to pick up in Baltimore right around Hamvention
time, or in the Dayton area. Please advise. How many would you
need? We could work out a price if you are interested.
Thanks!
73, John K9NJ
Email: k9nj@arrl.net

2133. At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 08:56:20 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49e2ff17$0$27407$6d4158fb@reader.xsnews.nl>
Source record: 16457

How can one couple this ?
A coaxcable with a dummyload: runningwaves everywhere and U and I are in phase.
Now the resonant dipole: the U peaks at the ends end I tops in the midle. So very reactive for the driver. Should be. Now the dipole is coupled at the coax instead of the 'inphase' load
and, oh wonder, the coax cable doesn't notice the difference ?? The mind boggles.

2134. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 09:08:35 UTC
From: Emanuele Colucci <emack@gameprog.it>
Message-ID: <49e30113$0$1110$4fafbaef@reader2.news.tin.it>
Source record: 16458

Hi Richard. Thank you for the answers :)
Richard Clark ha scritto:
> That is plenty of money. Do you have any time constraints?

Yep. I can only use Sundays... But on the other side I have no deadline.

> We have a contributor who has been teaching that for 40 years at a
> major university, and he studied under the pioneers of that specialty.
> Search groups.google.com for posts by "Mac N8TT" or use "J.
> McLaughlin; Michigan, USA" as search terms.

Great! I'll surely look for his messages!

Many thanks again.

Greetings,

Emanuele Colucci
emack@gameprog.it

2135. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 12:10:16 UTC
From: dave <dave@dave.dave>
Message-ID: <fNadnSrae4A0tn7UnZ2dnUVZ_tSdnZ2d@earthlink.com>
Source record: 16459

Calltrex wrote:
>
> How can one couple this ?
> A coaxcable with a dummyload: runningwaves everywhere and U and I are in
> phase.
> Now the resonant dipole: the U peaks at the ends end I tops in the
> midle. So very reactive
> for the driver. Should be. Now the dipole is coupled at the coax instead
> of the 'inphase' load
> and, oh wonder, the coax cable doesn't notice the difference ?? The
> mind boggles.

Indeed...

2136. Re: Corner reflector antenna source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 12:10:37 UTC
From: dave <dave@dave.dave>
Message-ID: <fNadnSXae4Agtn7UnZ2dnUVZ_tSdnZ2d@earthlink.com>
Source record: 16460

JIMMIE wrote:
> On Apr 12, 8:23 pm, Tom Horne <horn...@verizon.net> wrote:
>> Would anyone now of a source for corner reflector antennas for two
>> meters other than home brew? Since Arrow antennas discontinued it's
>> line of corner reflector antennas I know of no source for ready made ones.
>> --
>> Tom Horne
>>
>> "This alternating current stuff is just a fad. It is much too dangerous
>> for general use." Thomas Alva Edison
>
> Gee, I figure that thing is going to be about 9 ft tall and 4.5 ft
> wide. Thats a big chunk of metal for 12 db of gain.
>
> Jimmie

Chain link fence.

2137. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 14:17:23 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <CMHEl.5377$Lr6.874@flpi143.ffdc.sbc.com>
Source record: 16461

Calltrex wrote:
>
> How can one couple this ?
> A coaxcable with a dummyload: runningwaves everywhere and U and I are in
> phase.
> Now the resonant dipole: the U peaks at the ends end I tops in the
> midle. So very reactive for the driver.

Nope, you are confused, at least about resonant standing
wave antennas like the 1/2WL dipole. Those peaks and nodes
of the voltage and current are *AMPLITUDES*. Amplitudes have
nothing to do with reactance. To detect the reactance, one
must look at the *PHASE*. You are not looking at the phase.

Instead of looking at the amplitudes of the voltage and
current, take a look at the phase of the voltage and current.
The phase angle which determines the reactance is the difference
between the voltage phase angle and the current phase angle.

Hint: The phase angles of the standing waves on a standing wave
antenna (like a 1/2WL dipole) don't change over the entire
length of the 1/2WL dipole. The standing wave is approximately
90% of the total wave on a 1/2WL dipole so the phase angle
of the total wave on the antenna changes very little from
end to end.

> Should be. Now the dipole is coupled at the coax instead
> of the 'inphase' load
> and, oh wonder, the coax cable doesn't notice the difference ?? The
> mind boggles.

At the antenna feedpoint, for a resonant antenna, the total
current and total voltage are in phase so the resulting
impedance is *purely resistive, not reactive*.

There is a forward wave at the feedpoint which, in a 1/2WL
dipole, travels to the end of the antenna and is reflected.
At the reflection point, the forward voltage and reflected
voltage do not undergo a phase shift but the forward current
and reflected current are 180 degrees out of phase at the
reflection point.

Bottom line is that the reflection phasor adds to the forward
phasor after a 180 degree round trip. In a 1/2WL dipole, Vfor
is 180 degrees out of phase with Vref and Ifor is in phase with
Iref. Assuming a zero degree reference, Vfor is at zero degrees

and Vref is at 180 degrees. Ifor and Iref are both at zero
degrees. Since everything is in phase or 180 degrees out of
phase, we don't need any trig. The feedpoint impedance of a
resonant 1/2WL dipole becomes a *magnitude only* calculation:

1/2WL Zfp = (Vfor-Vref)/(Ifor+Iref)

The negative sign on Vref takes care of the 180 degree phase
shift. The feedpoint impedance of a resonant one wavelength
dipole is also a *magnitude only* calculation but the signs
of the magnitudes change because of the extra 180 degree delay:

1WL Zfp = (Vfor+Vref)/(Ifor-Iref)

It's easy to see why the feedpoint impedance of a 1WL dipole
is so much higher than it is for a 1/2WL dipole. The reflected
voltage and current are delayed by an additional 180 degrees.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2138. Re: Corner reflector antenna source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 14:46:15 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <fa917dfb-7def-46f9-97c3-15646a3d2f8b@w9g2000yqa.googlegroups.com>
Source record: 16462

On Apr 13, 8:10 am, dave <d...@dave.dave> wrote:
> JIMMIE wrote:
> > On Apr 12, 8:23 pm, Tom Horne <horn...@verizon.net> wrote:
> >> Would anyone now of a source for corner reflector antennas for two
> >> meters other than home brew? Since Arrow antennas discontinued it's
> >> line of corner reflector antennas I know of no source for ready made ones.
> >> --
> >> Tom Horne
>
> >> "This alternating current stuff is just a fad. It is much too dangerous
> >> for general use." Thomas Alva Edison
>
> > Gee, I figure that thing is going to be about 9 ft tall and 4.5 ft
> > wide. Thats a big chunk of metal for 12 db of gain.
>
> > Jimmie
>
> Chain link fence.

Hi Hi, Youve been the fox before?

2139. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 15:53:05 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <grvn51$jo6i$1@tr22n12.aset.psu.edu>
Source record: 16463

Cecil Moore wrote:
> Tom Donaly wrote:
>> If you can understand it, it's Modern English.
>
> Well, I've never been able to understand "The Bible"
> so it must not be Modern English. :-) I've heard
> that particular English called the "King's English".
> Is that an accurate description?
>
> I have re-translated "The Bible". It starts out:
> "In the beginning, God created the Big Bang, which
> caused time to stand relatively still because all
> particles were moving at nearly the speed of light."
>
> Off-topic question: Should we stone adulterers or
> not? :-)

Many adulterers are stoned already...

Of course it is a little difficult to figure out just what an adulterer is anyhow. If you raid a neighboring village, you can take the women as slaves and wives, somehow it was okay for Job's daughters to get him drunk and boink him. Go figure...

- 73 de Mike N3LI -

2140. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 19:40:41 UTC
From: dplatt@radagast.org
Message-ID: <p2hcb6-0rk.ln1@radagast.org>
Source record: 16464

In article <49e2ff17$0$27407$6d4158fb@reader.xsnews.nl>,
Calltrex <c@lltrex.com> wrote:

>How can one couple this ?
>A coaxcable with a dummyload: runningwaves everywhere and U and I are in phase.
>Now the resonant dipole: the U peaks at the ends end I tops in the
>midle. So very reactive
>for the driver.

I believe you are mistaken here.

A resonant antenna is *defined* by the fact that the voltage and
current are in-phase at each point along the antenna, and thus the
impedance at each point is purely resistive. A resonant antenna does
not present a reactive impedance to the driver.

> Should be.

Isn't.

In a resonant dipole, it's true that the *ratio* of the voltage to
current varies as you move along the antenna from one point to the
next. However, at every point you look, the current (at that point)
and the voltage (at that point) are in phase with one another, and so
the impedance (at that point) is purely resistive.

The fact that the ratio changes, simply means that the impedance is
different (but still resistive).

For example, a resonant dipole (typically just a hair shorter than 1/2
wavelength) in free space has an impedance at the center of around 70
ohms. As you move out towards one end or the other, the impedance
rises... but remains entirely resistive. If you want, you can (for
example) feed such a dipole off-center, with a 300-ohm twinlead or a
450-ohm window line... if you move out far enough from the center
you'll find a point at which the dipole presents an exact match to
such a feedline.

> Now the dipole is coupled at the coax instead
>of the 'inphase' load
>and, oh wonder, the coax cable doesn't notice the difference ?? The
>mind boggles.

Only because you have an incorrect assumption here. The fact that the
amplitudes of the voltage and current vary in different directions
as you move out from the center (voltage increases and current
decreases) doesn't mean that the voltage and current waveforms at any

given point are out of phase... they aren't.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

2141. Re: ghet help

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 19:43:23 UTC
From: kb9rqz@yahoooo.com
Message-ID: <ie57u45lgoaf3v2ii97hmk8ds2ml91cr4q@4ax.com>
Source record: 16465
Cross-posted to: rec.radio.cb,rec.radio.amateur.antenna,rec.radio.scanner,rec.radio.amateur.policy

On Thu, 19 Mar 2009 22:30:42 -0700 (PDT), k3vr <k3vr@ymail.com> wrote:

>On Mar 19, 7:53ï¿½pm, <mopezakw...@yahoo.com> wrote:
>>
>get a life

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

2142. Variable phasing vs 4-square

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 21:18:54 UTC
From: Bill Ogden <billogden@optonline.net>
Message-ID: <49e3abcf$0$5922$607ed4bc@cv.net>
Source record: 16466

I am trying to understand the practical differences as a receiving antenna between (1) two "active" verticals with a variable phasing control, and (2) four "active" verticals with a switch for four different directions. My interest is mostly for 80 meters. The physical differences are obvious, of course. This is mostly in regards to the two different DX Engineering products.

Is there a significant improvement using the four-square version? Lower noise? Lower angles? Tighter "beam"?

Bill
W2WO

2143. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 22:37:05 UTC
From: JB <nospam@goofball.net>
Message-ID: <l8PEl.736$WK5.41@nwrddc01.gnilink.net>
Source record: 16467

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:GG3El.15470$8_3.11768@flpi147.ffdc.sbc.com...
> Tom Donaly wrote:
> > If you can understand it, it's Modern English.
>
> Well, I've never been able to understand "The Bible"
> so it must not be Modern English. :-) I've heard
> that particular English called the "King's English".
> Is that an accurate description?
>
> I have re-translated "The Bible". It starts out:
> "In the beginning, God created the Big Bang, which
> caused time to stand relatively still because all
> particles were moving at nearly the speed of light."
>
> Off-topic question: Should we stone adulterers or
> not? :-)
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

You can't translate something you don't read or understand. The media often
does something like that, it is called "commentary" or roughly translated:
"subterfuge", "lying" or "manipulation" depending on the intent.

BTW look to John Chapter 8. Seemingly the law is clear but condemnation
isn't required.

2144. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 22:54:19 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5rf7u4tjokqp9215ottkcagvorh4ob7rdm@4ax.com>
Source record: 16468

On Mon, 13 Apr 2009 14:32:12 -0700 (PDT), nm5k@wt.net wrote:

>He runs off to web page Q and tells all that some great wizard from
>MIT
>laid out a bunch of math to prove his theory.
>This is an outright deception, because I was there, I saw the exchange
>and the wizard from MIT never gave any real math at all.
>In fact, when questioned about a few points by Richard Clark, the
>great wizard from MIT took off, never to be heard from again.

Hi Mark,

Just to balance this (and it is like trying to balance a stack of crystal champagne glasses on a trampoline), Art's MIT galahad wandered into the word game of Art's. The term Gauss' Law exists in the math of Maxwell's equations (and Art will probably stop reading at this observation to crow vindication).

Maxwell took the static law of Gauss and applied a time variable (what Art claims is his own invention) AND then Maxwell named his elaborated mathematics "Gauss' Law."

Our MIT galahad jumped ship when I pointed out that his own reference made this same point in terminology and described its derivation exactly as I have above. To give credit to the unfortunate galahad, Maxwell's form of "Gauss' Law" is perfectly good math (duh), and what Art describes is close enough if you ignore his juvenile chest thumping over his intellectual property rights (dick waving).

We have since seen this word salad Art's offered garnished with particals seasoned with a weekend farce.

73's
Richard Clark, KB7QHC

2145. Re: Variable phasing vs 4-square

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 23:27:08 UTC
From: James <jnipperxxx@nospamfdn.com>
Message-ID: <n5udnbLVZY7WV37UnZ2dnUVZ_sudnZ2d@posted.localnet>
Source record: 16469

Bill, I am curious if you are aware of ON4UN's Low Band Dx-ing book ? It is considered to be the bible of low band dx-ing, especially for 160 and 80 meters. The author is the "King" of 80 meter dx work. Just google ON4UN, and you will get the info for the book.

Chap 11 is about "vertical arrays."

I am not an expert, but I have just directed you to the top one on this subject.

Good luck !!

73 de Jim K4PYT

2146. Re: Dayton 2009 anyone?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 23:27:22 UTC
From: ml <m@di.net>
Message-ID: <m-3FEEF5.19271413042009@news.optonline.net>
Source record: 16470

In article <KNKdnR1Ep7gX_n_UnZ2dnUVZ_jZi4p2d@posted.easystreetonline>,
Roy Lewallen <w7el@eznec.com> wrote:

> Roy Lewallen wrote:
> > Stop by my booth (#504) and say hello.
>
> Correction -- booth is #514. I'd love to have any newsgroup
> posters/lurkers stop by and chat.
>
> Roy Lewallen, W7EL

YIKES just us 2 guys from the nntp crowd

thought there might be a few more shrugs dunno

maybe everyone is still away on holiday?

2147. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-13 23:58:16 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <f5aa1b88-32f0-4d09-8c94-646d6da69637@k41g2000yqh.googlegroups.com>
Source record: 16471

On Apr 13, 12:40 pm, dpl...@radagast.org (Dave Platt) wrote:
> In article <49e2ff17$0$27407$6d415...@reader.xsnews.nl>,
>
> Calltrex <c...@lltrex.com> wrote:
> >How can one couple this ?
> >A coaxcable with a dummyload: runningwaves everywhere and U and I are in phase.
> >Now the resonant dipole: the U peaks at the ends end I tops in the
> >midle. So very reactive
> >for the driver.
>
> I believe you are mistaken here.
>
> A resonant antenna is *defined* by the fact that the voltage and
> current are in-phase at each point along the antenna, and thus the
> impedance at each point is purely resistive. A resonant antenna does
> *not* present a reactive impedance to the driver.
>
> >   Should be.
>
> Isn't.
>
> In a resonant dipole, it's true that the *ratio* of the voltage to
> current varies as you move along the antenna from one point to the
> next. However, at every point you look, the current (at that point)
> and the voltage (at that point) are in phase with one another, and so
> the impedance (at that point) is purely resistive.
>
> The fact that the ratio changes, simply means that the impedance is
> different (but still resistive).
>
> For example, a resonant dipole (typically just a hair shorter than 1/2
> wavelength) in free space has an impedance at the center of around 70
> ohms. As you move out towards one end or the other, the impedance
> rises... but remains entirely resistive. If you want, you can (for
> example) feed such a dipole off-center, with a 300-ohm twinlead or a
> 450-ohm window line... if you move out far enough from the center
> you'll find a point at which the dipole presents an exact match to
> such a feedline.
>
> >   Now the dipole is coupled at the coax instead
> >of the 'inphase' load
> >and, oh wonder, the coax cable doesn't notice the difference ?? The
> >mind boggles.
>

> Only because you have an incorrect assumption here. The fact that the
> *amplitudes* of the voltage and current vary in different directions
> as you move out from the center (voltage increases and current
> decreases) doesn't mean that the voltage and current waveforms at any
> given point are out of phase... they aren't.
>
> --
> Dave Platt <dpl...@radagast.org>   AE6EO
> Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
>   I do _not_ wish to receive unsolicited commercial email, and I will
>   boycott any company which has the gall to send me such ads!

I understand "electric field strength" at a point, but I need a little help with "voltage at a point (along the antenna conductor, presumably). Voltage relative to what? Measured along what path? It's usually pretty easy to get agreement about voltage at a feedpoint, but things are much less clear away from that.

In any event, the only thing that matters with respect to the load on a feedline is the impedance (that is, voltage divided by current) at the feedpoint; the current at other points in the antenna does not need to be in phase with that feedpoint current to yield a purely resistive feedpoint impedance.

Cheers,
Tom

2148. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 00:17:28 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs0kmsafg1@news.service.uci.edu>
Source record: 16472

Cecil Moore wrote:
> Art Unwin wrote:
>> I find it interesting the difference in thinking
>> between the different news groups where only a few can manipulate the
>> whole to attack.
>
> I cannot beat Will Roger's advice: "Be sure you are
> right, and then go on ahead."
>
> For instance, I'm absolutely sure I am right about
> the delay through a 75m bugcatcher loading coil
> which I have actually measured on the bench.

A PT Barnum quote would have more apropos. So is your delay measurement
shown on your web page?

ac6xg

2149. Re: Variable phasing vs 4-square

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 01:49:20 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <49E3EBA0.9060209@arrl.net>
Source record: 16473

James wrote:
> Bill, I am curious if you are aware of ON4UN's Low Band Dx-ing book ? It
> is considered to be the bible of low band dx-ing, especially for 160 and 80
> meters. The author is the "King" of 80 meter dx work. Just google
> ON4UN, and you will get the info for the book.
>
> Chap 11 is about "vertical arrays."
>
> I am not an expert, but I have just directed you to the top one on this
> subject.
>
> Good luck !!
>
> 73 de Jim K4PYT
>
>
Well one big difference is that you can't transmit into the active antennas.

John Passaneau W3JXP

2150. Re: Variable phasing vs 4-square

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 01:49:38 UTC
From: John Passaneau <w3jxp@arrl.net>
Message-ID: <gs0q3j$rc12$2@tr22n12.aset.psu.edu>
Source record: 16474

James wrote:
> Bill, I am curious if you are aware of ON4UN's Low Band Dx-ing book ? It
> is considered to be the bible of low band dx-ing, especially for 160 and 80
> meters. The author is the "King" of 80 meter dx work. Just google
> ON4UN, and you will get the info for the book.
>
> Chap 11 is about "vertical arrays."
>
> I am not an expert, but I have just directed you to the top one on this
> subject.
>
> Good luck !!
>
> 73 de Jim K4PYT
>
>
Well one big difference is that you can't transmit into the active antennas.

John Passaneau W3JXP

2151. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 02:14:25 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <5kSEl.13495$%54.8118@nlpi070.nbdc.sbc.com>
Source record: 16475

JB wrote:
> BTW look to John Chapter 8. Seemingly the law is clear but condemnation
> isn't required.

That contradicts the Old Testament. Which is true?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2152. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 02:19:41 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1pSEl.13497$%54.7242@nlpi070.nbdc.sbc.com>
Source record: 16476

K7ITM wrote:
> ... the current at other points in the antenna does not
> need to be in phase with that feedpoint current to yield a purely
> resistive feedpoint impedance.

It indeed "does not need to be in phase with that
feedpoint current" but EZNEC says it is pretty
close to being in phase.

Here are the currents in 10 segments of a 1/4WL
monopole. The current phase varies by only 2.62
degrees in 90 degrees of antenna.

EZNEC+ ver. 4.0
Vertical over real ground 4/13/2009 9:17:57 PM
--------------- CURRENT DATA ---------------
Frequency = 7.2 MHz

Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97418 -0.40
3 .92577 -0.80
4 .85611 -1.14
5 .76657 -1.44
6 .65894 -1.71
7 .53532 -1.96
8 .39796 -2.20
9 .24889 -2.42
10 Open .08785 -2.62

--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2153. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 02:21:27 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GqSEl.13499$%54.5982@nlpi070.nbdc.sbc.com>
Source record: 16477

Jim Kelley wrote:
> Cecil Moore wrote:
>> For instance, I'm absolutely sure I am right about
>> the delay through a 75m bugcatcher loading coil
>> which I have actually measured on the bench.
>
> A PT Barnum quote would have more apropos. So is your delay measurement
> shown on your web page?

I wrote the web page before I made the measurement
but I reported the measurement on this newsgroup
about two years ago.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2154. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 13:29:10 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gs2336$nc34$1@tr22n12.aset.psu.edu>
Source record: 16478

nm5k@wt.net wrote:

> #2 You can't polish a turd and make it a diamond.

But you can roll it in kitty litter and call it a Zagnut!

- 73 de Mike N3LI -

2155. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 16:39:35 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <11a34499-27f6-41af-83f3-59b8a3b89012@r33g2000yqn.googlegroups.com>
Source record: 16479

On Apr 13, 5:32 pm, n...@wt.net wrote:
> On Apr 11, 6:28 am, "Dave" <no...@nowhere.com> wrote:
>
>
>
> > > Apparently when he couldn't unify Newtonian mechanics and electromagnetism
> > > he just gave up. You'll have to forgive the inadequacy of my American
> > > education. I guess they must know all about Newtonian electromagnetism
> > > wherever it is that you hail from.
>
> > > 73, ac6xg
>
> > no, he didn't give up, he moved to another forum to see how many other
> > suckers he could get to agree with him. check
out:http://forums.qrz.com/showthread.php?t=188750&highlight=kb9mz
> > but you have to be a 'member' to be able to reply on there.
>
> Good grief.. :/ I read through about 75% of that.. You can't debate
> a subject
> with Art. Tom asks him to simply show one device he has designed using
> this new fangled Gaussian theory, then Art claims Tom is "dissing"
> him,
> kicking sand in his face, or whatever other assault Art conjures up in
> his
> mind. :/
>
> But he also alters facts to suit his whim, conjures non events out of
> the
> thin air, and other feats of internet skill.
> He whines because we ask him to define how he uses the term
> equilibrium
> in respect to antennas.
> But then he runs off to web page Q and whines that everyone asks him
> the definition of the word itself.. This is an oft used tactic of many
> that
> wish to confuse the audience at hand.
>
> He runs off to web page Q and tells all that some great wizard from
> MIT
> laid out a bunch of math to prove his theory.
> This is an outright deception, because I was there, I saw the exchange
> and the wizard from MIT never gave any real math at all.
> In fact, when questioned about a few points by Richard Clark, the
> great wizard from MIT took off, never to be heard from again.

> And he never gave any math at all as far as Art's design.
> So this event can be labeled as "the big lie" as far as I'm concerned.
>
> I'm all for antenna experimentation, but after several years of
> tinkering I have learned a couple of things.
> And so far they have never been proved wrong. Even by Art, or
> even the great wizard from MIT.
>
> #`1 There is no free lunch.
> #2 You can't polish a turd and make it a diamond.
>
> Art claims to do both, but as always, refuses to provide a working
> model that can be tested against known benchmark antennas,
> or he provides a design which does not work as claimed.
> Like the short "contra wound" contraption I've seen a picture of.
> He claims it is a viable antenna for 160m, and will be quite
> efficient.
> Heck, I don't even have to test it. I can just look at it and tell
> you it will be a dud compared to any decent antenna.
> But this is OK. It's not my design, and it's not my job to prove
> the design actually works.
> That is Art's job, but Art refuses to do it.
>
> If I had a design, I would want to test it against antennas with
> known properties. Art refuses. This is why he thinks many of
> these off the wall theories and designs work.
> He will never actually do the tests to confirm the performance.
> I bet he doesn't even have any reference antennas on his
> property, like say a 160m dipole, or a 1/4 wave monopole.
> How can one advocate a design or theory without even testing it?
>
> To sum, Art is like a dog that chases it's tail all day long.   :/
> That's my interpretation, and I'm sticking with it.

Arts design is not origonal, it was around in the 60s and 70s as a CB
radio joke. It rated up there along with burying a dipole a 1/4 wl
deep in the ground.. Unlike the buried antenna this joke was
especially good because sometimes it wold work just well enough to
work some skip and then you would hear the guy talking about this
great antenna he had

Jimmie

2156. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 18:19:34 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs2k3t$q0u$1@news.service.uci.edu>
Source record: 16480

Cecil Moore wrote:
> Jim Kelley wrote:
>> Cecil Moore wrote:
>>> For instance, I'm absolutely sure I am right about
>>> the delay through a 75m bugcatcher loading coil
>>> which I have actually measured on the bench.
>>
>> A PT Barnum quote would have more apropos. So is your delay
>> measurement shown on your web page?
>
> I wrote the web page before I made the measurement
> but I reported the measurement on this newsgroup
> about two years ago.

Ah. So you didn't actually follow Will Rogers advice to:
"Be sure you are right, and then go on ahead."

But we already knew that. :-)

ac6xg

2157. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 18:31:32 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <7E4FI.4844$im1.1013@nlpi061.nbdc.sbc.com>
Source record: 16481

Jim Kelley wrote:
> Ah. So you didn't actually follow Will Rogers advice to:
> "Be sure you are right, and then go on ahead."

I was sure I was right and then made the measurements
that proved it. The established laws of physics don't
require additional measurements. Have you proved
Maxwell's equations lately?

When one needs to delay a signal, one can install a
coil to accomplish that need. Why is it so hard to
accept that coils cause delays?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2158. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 18:50:04 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <aa3c4af2-23eb-4f27-aaa0-0de12c478817@g19g2000yql.googlegroups.com>
Source record: 16482

On Apr 14, 2:31 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Jim Kelley wrote:
> > Ah. So you didn't actually follow Will Rogers advice to:
> > "Be sure you are right, and then go on ahead."
>
> I was sure I was right and then made the measurements
> that proved it. The established laws of physics don't
> require additional measurements. Have you proved
> Maxwell's equations lately?
>
> When one needs to delay a signal, one can install a
> coil to accomplish that need. Why is it so hard to
> accept that coils cause delays?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

What would be the difference in the amount of time it takes a pulse to travel from feedpoint and be reflected back to the feed point comparing a 1/4 wl 40 meter antenna to a 15ft loaded antenna center loaded to resonate at 40 meters?

Jimmie

2159. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 19:29:02 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs2o65$rb2$1@news.service.uci.edu>
Source record: 16483

JIMMIE wrote:
> On Apr 14, 2:31 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>> Jim Kelley wrote:
>>> Ah. So you didn't actually follow Will Rogers advice to:
>>> "Be sure you are right, and then go on ahead."
>> I was sure I was right and then made the measurements
>> that proved it. The established laws of physics don't
>> require additional measurements. Have you proved
>> Maxwell's equations lately?
>>
>> When one needs to delay a signal, one can install a
>> coil to accomplish that need. Why is it so hard to
>> accept that coils cause delays?
>> --
>> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> What would be the difference in the amount of time it takes a pulse to
> travel from feedpoint and be reflected back to the feed point
> comparing a 1/4 wl 40 meter antenna to a 15ft loaded antenna center
> loaded to resonate at 40 meters?
>
> Jimmie

Do you want him to tell you what he believes it is, or what he has
actually measured it to be?

73, ac6xg

2160. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 19:53:41 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <1ed27f89-a077-469f-b48f-0856945a8f95@z19g2000yqe.googlegroups.com>
Source record: 16484

On Apr 14, 3:29 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> JIMMIE wrote:
> > On Apr 14, 2:31 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> >> Jim Kelley wrote:
> >>> Ah. So you didn't actually follow Will Rogers advice to:
> >>> "Be sure you are right, and then go on ahead."
> >> I was sure I was right and then made the measurements
> >> that proved it. The established laws of physics don't
> >> require additional measurements. Have you proved
> >> Maxwell's equations lately?
>
> >> When one needs to delay a signal, one can install a
> >> coil to accomplish that need. Why is it so hard to
> >> accept that coils cause delays?
> >> --
> >> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> > What would be the difference in the amount of time it takes a pulse to
> > travel from feedpoint and be reflected back to the feed point
> > comparing a 1/4 wl 40 meter antenna to a 15ft loaded antenna center
> > loaded to resonate at 40 meters?
>
> > Jimmie
>
> Do you want him to tell you what he believes it is, or what he has
> actually measured it to be?
>
> 73, ac6xg- Hide quoted text -
>
> - Show quoted text -

I would like to hear anyones opinion on it.

Jimmie

2161. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 19:58:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <DV5Fl.26945$YU2.24649@nlpi066.nbdc.sbc.com>
Source record: 16485

JIMMIE wrote:
> What would be the difference in the amount of time it takes a pulse to
> travel from feedpoint and be reflected back to the feed point
> comparing a 1/4 wl 40 meter antenna to a 15ft loaded antenna center
> loaded to resonate at 40 meters?

Please don't confuse delay (amount of time) with the
total phase shift. There is a point in a loading coil
antenna where the phase shift is instantaneous.

The total phase shift is *exactly* the same assuming
both antennas are resonant on 40m. How could it possibly
be otherwise?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2162. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 20:06:37 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <0_5FI.5468$Lr6.4039@flpi143.ffdc.sbc.com>
Source record: 16486

Jim Kelley wrote:
> Do you want him to tell you what he believes it is, or what he has
> actually measured it to be?

If you had any idea of what you were talking about,
you would know that the total phase shift is unrelated
to the total delay. Some incremental phase shifts are
related to the velocity factor. Some incremental phase
shifts are instantaneous. If you don't already know
that, you don't know how to use a Smith Chart.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2163. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 20:09:53 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <416Fl.5469$Lr6.1617@flpi143.ffdc.sbc.com>
Source record: 16487

JIMMIE wrote:
> On Apr 14, 3:29 pm, Jim Kelley <jwkel...@uci.edu> wrote:
>> Do you want him to tell you what he believes it is, or what he has
>> actually measured it to be?

> I would like to hear anyones opinion on it. Jimmie

Does anyone besides me suspect that JIMMIE talking
to Jim is the same person?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2164. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 20:52:16 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs2t29$t6l$1@news.service.uci.edu>
Source record: 16488

Cecil Moore wrote:
> Jim Kelley wrote:
>> Do you want him to tell you what he believes it is, or what he has
>> actually measured it to be?
>
> If you had any idea of what you were talking about,
> you would know that the total phase shift is unrelated
> to the total delay.

But you're doing all the talking, Cecil - providing profound and knowledgeable insights as in the above observation that phase shift and delay are unrelated.

ac6xg

2165. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 21:39:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <980au41b2ng7pqr1rvti213ufosc3c1h2e@4ax.com>
Source record: 16489

On Tue, 14 Apr 2009 13:52:16 -0700, Jim Kelley <jwkelley@uci.edu>
wrote:

>Cecil Moore wrote:
>> Jim Kelley wrote:
>>> Do you want him to tell you what he believes it is, or what he has
>>> actually measured it to be?
>>
>> If you had any idea of what you were talking about,
>> you would know that the total phase shift is unrelated
>> to the total delay.
>
>But you're doing all the talking, Cecil - providing profound and
>knowledgeable insights as in the above observation that phase shift and
>delay are unrelated.

Exceedingly profound. Is there a third, unpublished, cosine parameter
(Suppressed Hypothetical Interval Term) for delay that is not phase
nor position? This must be another one of Cecil's "you are right, but
you are wrong about what you thought you were thinking about."

73's
Richard Clark, KB7QHC

2166. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 23:12:08 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs358h$2ne$1@news.service.uci.edu>
Source record: 16490

Richard Clark wrote:
> On Tue, 14 Apr 2009 13:52:16 -0700, Jim Kelley <jwkelley@uci.edu>
> wrote:
>
>> Cecil Moore wrote:
>>> Jim Kelley wrote:
>>>> Do you want him to tell you what he believes it is, or what he has
>>>> actually measured it to be?
>>> If you had any idea of what you were talking about,
>>> you would know that the total phase shift is unrelated
>>> to the total delay.
>> But you're doing all the talking, Cecil - providing profound and
>> knowledgeable insights as in the above observation that phase shift and
>> delay are unrelated.
>
> Exceedingly profound. Is there a third, unpublished, cosine parameter
> (Suppressed Hypothetical Interval Term) for delay that is not phase
> nor position? This must be another one of Cecil's "you are right, but
> you are wrong about what you thought you were thinking about."

Right. I suspect it was because Cecil was wrong about what he thought I
was thinking about. Again. Either that, or he was referring to
standing waves of current that 'begin undulating linearly & laterally'
at a 'cosinusoidal reduced amplitude phase'.

73, ac6xg

2167. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 23:27:11 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <dcf2fe01-3d4a-4097-bd96-08f7ff2d3010@n7g2000prc.googlegroups.com>
Source record: 16491

On Apr 13, 4:58 pm, K7ITM <k7...@msn.com> wrote:
> On Apr 13, 12:40 pm, dpl...@radagast.org (Dave Platt) wrote:
>
>
>
> > In article <49e2ff17$0$27407$6d415...@reader.xsnews.nl>,
>
> > Calltrex <c...@lltrex.com> wrote:
> > >How can one couple this ?
> > >A coaxcable with a dummyload: runningwaves everywhere and U and I are in phase.
> > >Now the resonant dipole: the U peaks at the ends end I tops in the
> > >midle. So very reactive
> > >for the driver.
>
> > I believe you are mistaken here.
>
> > A resonant antenna is *defined* by the fact that the voltage and
> > current are in-phase at each point along the antenna, and thus the
> > impedance at each point is purely resistive. A resonant antenna does
> > *not* present a reactive impedance to the driver.
>
> > >   Should be.
>
> > Isn't.
>
> > In a resonant dipole, it's true that the *ratio* of the voltage to
> > current varies as you move along the antenna from one point to the
> > next. However, at every point you look, the current (at that point)
> > and the voltage (at that point) are in phase with one another, and so
> > the impedance (at that point) is purely resistive.
>
> > The fact that the ratio changes, simply means that the impedance is
> > different (but still resistive).
>
> > For example, a resonant dipole (typically just a hair shorter than 1/2
> > wavelength) in free space has an impedance at the center of around 70
> > ohms. As you move out towards one end or the other, the impedance
> > rises... but remains entirely resistive. If you want, you can (for
> > example) feed such a dipole off-center, with a 300-ohm twinlead or a
> > 450-ohm window line... if you move out far enough from the center
> > you'll find a point at which the dipole presents an exact match to
> > such a feedline.
>
> > >   Now the dipole is coupled at the coax instead

> > >of the 'inphase' load
> > >and, oh wonder, the coax cable doesn't notice the difference ?? The
> > >mind boggles.
>
> > Only because you have an incorrect assumption here. The fact that the
> > *amplitudes* of the voltage and current vary in different directions
> > as you move out from the center (voltage increases and current
> > decreases) doesn't mean that the voltage and current waveforms at any
> > given point are out of phase... they aren't.
>
> > --
> > Dave Platt <dpl...@radagast.org>   AE6EO
> > Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
> >   I do _not_ wish to receive unsolicited commercial email, and I will
> >   boycott any company which has the gall to send me such ads!
>
> I understand "electric field strength" at a point, but I need a little
> help with "voltage at a point (along the antenna conductor,
> presumably). Voltage relative to what? Measured along what path?
> It's usually pretty easy to get agreement about voltage at a
> feedpoint, but things are much less clear away from that.
>
> In any event, the only thing that matters with respect to the load on
> a feedline is the impedance (that is, voltage divided by current) at
> the feedpoint; the current at other points in the antenna does not
> need to be in phase with that feedpoint current to yield a purely
> resistive feedpoint impedance.
>
> Cheers,
> Tom

A bit more about this...

If you model a center-fed dipole made of thin wire (say wire diameter about 1/1000 of a wavelength) at half-wave resonance, you should see that the current toward the ends of the wire lags the current at the center by a few degrees. If you increase the wire diameter (to say 1/100 of a wavelength) and model at (the new) resonance, you should see that the current toward the ends of the wire lags the current at the center by considerably more than with the thin wire, perhaps about double the lag. In both cases, the feedpoint impedance is by definition nonreactive.

Now if you model each of these antennas at an operating frequency 90% of the half-wave-resonant frequency, you should see that the phase at the ends of the wire lags by much less than it did at resonance, but now the feedpoint impedance is quite reactive: the reactance should be considerably more than the resistance in the case of the thin wire antenna, and the resistance and reactance should be similar in the case of the thicker wire.

Enlighten yourself further by modelling these two antennas fed at frequencies near full wave resonance and near the resonance associated with 1.5 waves antenna length. You will see that the phase along the wire changes considerably more than when the antenna is operated at or near half-wave resonance, but that the frequency can be adjusted so that the feedpoint impedance is non-reactive. You'll also notice, if your model has divided the wire into enough segments, that the phase along the wire does not change abruptly as you pass through a current node or antinode.

The conclusion I draw is that it's fruitless to worry about the phase of the current along the wire when you're considering the feedpoint impedance. It may be very interesting to consider the phase of the current on the wire for other reasons, but not for the reason of adjusting the feedpoint impedance.

Cheers,
Tom

2168. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 23:31:08 UTC
From: Dave <noone@nowhere.com>
Message-ID: <019Fl.135$N5.9@nwrddc01.gnilink.net>
Source record: 16492

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:1ed27f89-a077-469f-b48f-0856945a8f95@z19g2000yqe.googlegroups.com...
On Apr 14, 3:29 pm, Jim Kelley <jwkel...@uci.edu> wrote:

>I would like to hear anyones opinion on it.

Everyone can have an opinion... but it takes an engineer with the proper
instruments to have the answer.

2169. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 23:53:42 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <9m9Fl.27040$yr3.4299@nlpi068.nbdc.sbc.com>
Source record: 16493

Jim Kelley wrote:
> But you're doing all the talking, Cecil - providing profound and
> knowledgeable insights as in the above observation that phase shift and
> delay are unrelated.

I guess I should provide a context for the uninitiated.

If the system contains only traveling waves, the delay
is proportional to the phase shift. If the system contains
only standing waves, the delay is completely unrelated to
the phase shift since the phase shift is always zero over
any 1/2WL between the current nodes. EZNEC supports that
fact and w7el has admitted such in a previous posting.

Kraus and Balanis both agree with the above assertion. I
believe that you are aware of that fact so I have no choice
but to assume that you are deliberately trying to hoodwink
the uninitiated as are w7el and w8ji. Your ulterior motives
remain unclear to me since you will not doubt be proven
technically wrong at some point. You guys cannot possibly
plead ignorance after all these years of discussion.

Traveling wave current changes phase relative to the source
current. Every technical person agrees on that fact of physics.

Standing wave current does not change phase relative to
the source current. Everyone technical person agrees on
that fact of physics.

Therefore, standing wave current phase cannot be used to
measure delay through a wire or through a coil. This is
such a simple concept that any disagreement must be
considered to be a conspiracy to hoodwink the uninitiated.
Exactly what do you guys have to gain from hoodwinking
the unwashed masses???
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2170. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-14 23:59:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <cr9FI.27043$yr3.1387@nlpi068.nbdc.sbc.com>
Source record: 16494

K7ITM wrote:
> It may be very interesting to consider the phase of the
> current on the wire for other reasons, but not for the reason of
> adjusting the feedpoint impedance.

Any good antenna book will present the equations for voltage
and current on a lossless thin-wire dipole. Those equations
disagree with your conclusions.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2171. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 00:02:32 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <6u9FI.13591$g%5.9994@newsfe23.iad>
Source record: 16495

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:grvn51$jo6i$1@tr22n12.aset.psu.edu...
> Cecil Moore wrote:
>> Tom Donaly wrote:
>>> If you can understand it, it's Modern English.
>>
>> Well, I've never been able to understand "The Bible"
>> so it must not be Modern English. :-) I've heard
>> that particular English called the "King's English".
>> Is that an accurate description?
>>
>> I have re-translated "The Bible". It starts out:
>> "In the beginning, God created the Big Bang, which
>> caused time to stand relatively still because all
>> particles were moving at nearly the speed of light."
>>
>> Off-topic question: Should we stone adulterers or
>> not? :-)
>
> Many adulterers are stoned already...
>
> Of course it is a little difficult to figure out just what an adulterer is
> anyhow. If you raid a neighboring village, you can take the women as
> slaves and wives, somehow it was okay for Job's daughters to get him drunk
> and boink him. Go figure...
>
> - 73 de Mike N3LI -

Just what makes you think its supposed to be ok?
B

2172. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 00:04:41 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <7w9FI.13592$g%5.7590@newsfe23.iad>
Source record: 16496

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:5kSEl.13495$%54.8118@nlpi070.nbdc.sbc.com...
> JB wrote:
>> BTW look to John Chapter 8. Seemingly the law is clear but condemnation
>> isn't required.
>
> That contradicts the Old Testament. Which is true?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

As Jesus was the fulfillment of the Law, his choice to forgive is what is
true.
The penalty was paid. There was a death for the adultery.
B

2173. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 00:16:21 UTC
From: Jim Kelley <jimkelleyamps@gmail.com>
Message-ID: <018ff7cd-35f7-4fb0-a559-4bbc41f4c56f@z16g2000prd.googlegroups.com>
Source record: 16497

On Apr 14, 1:09 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> JIMMIE wrote:
> > On Apr 14, 3:29 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> >> Do you want him to tell you what he believes it is, or what he has
> >> actually measured it to be?
> > I would like to hear anyones opinion on it. Jimmie
>
> Does anyone besides me suspect that JIMMIE talking
> to Jim is the same person?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

The voices say aye.

ac6xg

2174. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 00:52:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com>
Source record: 16498

Brian Oakley wrote:
> As Jesus was the fulfillment of the Law, his choice to forgive is what
> is true. The penalty was paid. There was a death for the adultery.

So why is the Old Testament included in The Bible
if Jesus rendered it meaningless and irrelevant?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2175. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 00:57:14 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs3bdk$4tl$1@news.service.uci.edu>
Source record: 16499

Cecil Moore wrote:

> If the system contains only traveling waves, the delay
> is proportional to the phase shift. If the system contains
> only standing waves, the delay is completely unrelated to
> the phase shift since the phase shift is always zero over
> any 1/2WL between the current nodes. EZNEC supports that
> fact and w7el has admitted such in a previous posting.
>
> Kraus and Balanis both agree with the above assertion.

I'm surprised they ever used EZNEC, or discussed systems that have
standing waves, and nothing else.

> Standing wave current does not change phase relative to
> the source current. Everyone technical person agrees on
> that fact of physics.

Yes, and that's by virtue of the fact that standing waves are entirely
dependent on traveling waves. In fact, standing waves don't do anything
on their own.

What's amazing is that you continue to insist on attributing
interference with supernatural powers - "redistribution"
being one, "delaying" itself apparently being another.

> Therefore, standing wave current phase cannot be used to
> measure delay through a wire or through a coil.

We've seen how you can calculate it. So, given that phase and delay are
completely unrelated as you have explained, please describe if you would
how one would go about actually measuring standing wave current delay -
whatever that is.

> This is
> such a simple concept that any disagreement must be
> considered to be a conspiracy to hoodwink the uninitiated.
> Exactly what do you guys have to gain from hoodwinking
> the unwashed masses???

The suggestion sounds a little nutty to me, to be honest. Is it
possible that you might be mistaken about any of this?

ac6xg

2176. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 01:35:00 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <7RaFl.26980$YU2.21182@nlpi066.nbdc.sbc.com>
Source record: 16500

Jim Kelley wrote:
> I'm surprised they ever ... discussed systems that have
> standing waves, and nothing else.

I'm not surprised because you have obviously never cracked
open their books - tsk, tsk. Reference page 288 of "Optics",
by Hecht, 4th edition, 7.1.4 Standing Waves.

> What's amazing is that you continue to insist on attributing
> interference with supernatural powers - "redistribution"
> being one, ...

Obviously, you have never read the following FSU web page:

micro.magnet.fsu.edu/primer/java/scienceopticsu/interference/waveinteractions/index.html

"... when two waves of equal amplitude and wavelength that are
180-degrees ... out of phase with each other meet, they are not
actually annihilated, ... All of the photon energy present in
these waves must somehow be recovered or *redistributed* in a
new direction, according to the law of energy conservation ...
Instead, upon meeting, the photons are *redistributed* to regions
that permit constructive interference, so the effect should be
considered as a *redistribution* of light waves and photon energy
rather than the spontaneous construction or destruction of light."

Exactly what is it about the *redistribution* of energy that you
don't understand?

> ... please describe if you would
> how one would go about actually measuring standing wave current delay -
> whatever that is.

I cannot improve on Hecht's words in "Optics":

"This is the equation for a STANDING or STATIONARY WAVE, as
opposed to a traveling wave. Its profile does not move through
space; ... It doesn't rotate at all, and the resultant wave
it represents doesn't progress through space - its a standing
wave."

In other words, "standing wave current delay" does not exist.
Only an ignorant fool would think that it could exist given
the equation for a standing wave. Yet this is the current
that w7el and w8ji tried to use to measure the delay through
a 75m mobile loading coil.

> The suggestion sounds a little nutty to me, to be honest. Is it
> possible that you might be mistaken about any of this?

I could be mistaken about your ulterior motive but it is hard
for me to accept the fact that you guys are just dumb as a stump.
I would rather think that you, w7el, and w8ji have a modicum
of intelligence and are merely engaged in a conspiracy to
hoodwink the uninitiated. Your motive for such is unclear.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2177. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 05:28:23 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <quqau4p188t312rijvahglsqco4gmg74fa@4ax.com>
Source record: 16401

On Tue, 14 Apr 2009 20:35:00 -0500, Cecil Moore <nospam@w5dxp.com>
>engaged in a conspiracy

Hmm, Trilateral commission?
Freemasonry?
Area 51?
Symbionese Liberation Army?
Hussein's "Oil for Food?"
Illuminati?
Ulster Loyalist Central Coordination Committee?
Bilderberg Group?
the 4th Reich?
AUM Shinrikyo?
Animal Liberation Front?
Leon Czolgosz?
Gulf of Tonkin incident?
Hollow earth theory?
New World Order?
Rosicrucians?
Servants of the Paraclete?
Watergate?
The Nazi-American Money Plot?
There is a point in a loading coil antenna where the phase shift is
instantaneous? [and yet it moves.....]

2178. Re: WTB: Cushcraft XM240

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 10:06:54 UTC
From: N3BJ <N3BJ@cox.net>
Message-ID: <66296d11-617c-49be-a2bc-d676e2af662d@s20g2000yqh.googlegroups.com>
Source record: 16402

On Apr 12, 10:58 pm, "k...@arrl.net" <k...@arrl.net> wrote:
> On Mar 15, 12:13 pm, N3BJ <N...@cox.net> wrote:
>
> > Anyone have one that is surplus ? Will be attending Raleigh, Dayton
> > and other hamfests in the PA/MD/VA/NC areas and can travel a bit if
> > pick up is required.
>
> Are you still looking for Gem Quad spreaders? I might have some
> available for you to pick up in Baltimore right around Hamvention
> time, or in the Dayton area. Please advise. How many would you
> need? We could work out a price if you are interested.
> Thanks!
> 73, John K9NJ
> Email: k...@arrl.net

Hello John

Thanks for the reply. I might be interested. How much do you want
each ?

Alan, N3BJ

2179. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 10:55:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <F2jFl.27078$yr3.23914@nlpi068.nbdc.sbc.com>
Source record: 16403

Richard Clark wrote:
> On Tue, 14 Apr 2009 20:35:00 -0500, Cecil Moore <nospam@w5dxp.com>
>> engaged in a conspiracy
>
> Hmm, Trilateral commission?

It was tongue-in-cheek humor, Richard.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2180. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 13:13:30 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gs4mhr$9c54$1@tr22n12.aset.psu.edu>
Source record: 16404

nm5k@wt.net wrote:
> On Apr 14, 8:29 am, Michael Coslo <m...@psu.edu> wrote:
>> n...@wt.net wrote:
>>> #2 You can't polish a turd and make it a diamond.
>> But you can roll it in kitty litter and call it a Zagnut!
>>
>> - 73 de Mike N3LI -
>
> Didn't Carl Spackler dig one of those out of a swimming pool
> and eat it? :/

Funny you should mention it, that was on TV this past weekend. A true classic.

"Darling, could you loofah my stretch marks?" I still cringe during that part.

On the topic:

When I was a little kid, 9 or 10 I think, I had an old cathedral radio that had shortwave on it. Found it in the attic.

I wanted to experiment with antennas. First I put the typical short straight wire on it. Then I saw a science book that had a big dish antenna on it.

I thought "Wow - if this thing can hear signals from satellites millions of miles out in space, imagine what it can do with those shortwave signals.

So I made a little dish antenna out of copper wire and aluminum foil, around a foot in diameter, and put it on top of the radio. It worked, kinda. Continuing to learn, I found what a longwire antenna could do for performance.

Point is, some 40 years later, I see something sort of like what I did as a 9 year old kid being talked about again. I suspect it will work just about as well now as it did then. Which is to say - not very well.

I had an excuse though.

2181. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 13:26:53 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gs4nat$bk72$1@tr22n12.aset.psu.edu>
Source record: 16405

```
Brian Oakley wrote:
>
> "Michael Coslo" <mjc5@psu.edu> wrote in message
> news:grvn51$jo6i$1@tr22n12.aset.psu.edu...
>
>> Many adulterers are stoned already...
>>
>> Of course it is a little difficult to figure out just what an
>> adulterer is anyhow. If you raid a neighboring village, you can take
>> the women as slaves and wives, somehow it was okay for Job's daughters
>> to get him drunk and boink him. Go figure...
>>
>> - 73 de Mike N3LI -
>
> Just what makes you think its supposed to be ok?

It wasn't exactly condemned now was it?

- 73 de Mike N3LI -
```

2182. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 14:47:59 UTC
From: JB <nospam@goofball.net>
Message-ID: <zsmFl.964$b11.563@nwrddc02.gnilink.net>
Source record: 16406

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com...
> Brian Oakley wrote:
> > As Jesus was the fulfillment of the Law, his choice to forgive is what
> > is true. The penalty was paid. There was a death for the adultery.
>
> So why is the Old Testament included in The Bible
> if Jesus rendered it meaningless and irrelevant?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Not meaningless and irrelevant. The law is to be considered and respected, but is not the main point. The Jews asked for the law because they were too afraid of the voice of God. Obedience to his voice would have been more pleasing. God seems to be in tune with what we need but there is no way we are going to get in the way of His plans. Jesus was the right hand of God reaching out to us. If that doesn't strike you with awe, and it is all meaningless to you, then you have no heart and morality is what you make up just like the animals. Essentially a "heathen".

And you wonder why children who have been taught they are no more than "evolved primordial soup" go to school with "Natural Selection" T-shirts and kill as many as they can for sport. And why abortion is being promoted as a painless way to make genocide acceptable. I pray America and its people finds their way back to God before He sends his blessing elsewhere.

As far as Newton's theory... I thought he dealt primarily with forces. Works well with things like magnetism, gravity and mechanics, but when you introduce AC and antenna theory, it becomes very complex and the pages start to fill with Math. Not easy to explain in a news post. I have yet to see any of the Math in these posts, which speaks to the fact that everyone is too lazy to do more than talk about it.

2183. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 15:35:06 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <a3df27ff-ed5d-4c86-8b1f-219769dc1351@r37g2000yqn.googlegroups.com>
Source record: 16407

On Apr 14, 8:16 pm, Jim Kelley <jimkelleya...@gmail.com> wrote:
> On Apr 14, 1:09 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>
> > JIMMIE wrote:
> > > On Apr 14, 3:29 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> > >> Do you want him to tell you what he believes it is, or what he has
> > >> actually measured it to be?
> > > I would like to hear anyones opinion on it. Jimmie
>
> > Does anyone besides me suspect that JIMMIE talking
> > to Jim is the same person?
> > --
> > 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> The voices say aye.
>
> ac6xg

The voices are wrong, it doesnt take a lot of digging to find out who
I am if you really want to know, Ive been here for years. I just dont
like my identity plastered on newsgroups.

Jimmie

2184. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 16:01:17 UTC
From: Jim Kelley <jimkelleyamps@gmail.com>
Message-ID: <517bfa89-bcf9-447d-8243-58d58c94d81b@o11g2000yql.googlegroups.com>
Source record: 16408

On Apr 14, 5:35 pm, Cecil Moore <nos...@w5dxp.com> wrote:

> I cannot improve on Hecht's words in "Optics":

You could still improve on your understanding of their meaning.

> In other words, "standing wave current delay" does not exist.
> Only an ignorant fool would think that it could exist given
> the equation for a standing wave.

And yet you keep posting your calculations and claiming to have made measurements. I was trying to be polite, but yes. Evidently we're in agreement now?

ac6xg

2185. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 16:19:12 UTC
From: Jim Kelley <jimkelleyamps@gmail.com>
Message-ID: <858e3398-52f6-48e2-a08a-372b9edecb50@u8g2000yqn.googlegroups.com>
Source record: 16409

On Apr 15, 7:35 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Apr 14, 8:16 pm, Jim Kelley <jimkelleya...@gmail.com> wrote:
>
>
>
>
>
> > On Apr 14, 1:09 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>
> > > JIMMIE wrote:
> > > > On Apr 14, 3:29 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> > > >> Do you want him to tell you what he believes it is, or what he has
> > > >> actually measured it to be?
> > > > I would like to hear anyones opinion on it. Jimmie
>
> > > Does anyone besides me suspect that JIMMIE talking
> > > to Jim is the same person?
> > > --
> > > 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> > The voices say aye.
>
> > ac6xg
>
> The voices are wrong, it doesnt take a lot of digging to find out who
> I am if you really want to know, Ive been here for years.

Yes, but don't you see? That's the clever deception. You could have
appended three letters to your first name and typed it in all caps,
and then only somebody as smart as Cecil could figure out that you are
actually me. Not even we would know it. :-)

73, ac6xg

2186. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 16:38:37 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <h4oFl.4921$im1.3157@nlpi061.nbdc.sbc.com>
Source record: 16410

Jim Kelley wrote:
> And yet you keep posting your calculations and claiming to have made
> measurements.

As have w7el and w8ji. All their measurements proved
is that standing wave current doesn't change phase
relative to the feedpoint current phase. They did
not measure the delay through a coil. They measured
the phase shift through the coil using a current that
doesn't change phase relative to the two measurement
points. The same thing happens with a wire.

To measure the actual delay through a coil, traveling
wave current must be used. I am apparently the only
one who ran that actual experiment. I guarantee if
anyone performs that experiment in a valid manner,
they will see similar results to mine. Here's the
setup that I used to measure a ~25 nS delay through
a 75m bugcatcher coil at 4 MHz.

http://www.w5dxp.com/coiltest.GIF

You should be able to achieve that setup in your
physics lab.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2187. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 16:51:33 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <8q3cu4l4gbih4fasc6ff2te11bjq4b1rav@4ax.com>
Source record: 16411

On Wed, 15 Apr 2009 05:55:34 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> On Tue, 14 Apr 2009 20:35:00 -0500, Cecil Moore <nospam@w5dxp.com>
>>> engaged in a conspiracy
>>
>> Hmm, Trilateral commission?
>
>It was tongue-in-cheek humor, Richard.

Ah! That is what you thought I was thinking you were thinking I
thought and you were wrong twice, right once and on the third hand was
a draw.

2188. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 16:56:48 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <1d4cu41i15hu6te051s4aad41krb46jf8m@4ax.com>
Source record: 16412

On Wed, 15 Apr 2009 11:38:37 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>setup that I used to measure a ~25 nS delay through
>a 75m bugcatcher coil at 4 MHz.
>
>http://www.w5dxp.com/coiltest.GIF

This is just a cartoon with the caption:
"Magik happens here."

2189. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 17:08:21 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <nwoFl.18939$as4.10989@nlpi069.nbdc.sbc.com>
Source record: 16413

Cecil Moore wrote:
> Jim Kelley wrote:
>> And yet you keep posting your calculations and claiming to have made
>> measurements.
>
> As have w7el and w8ji. All their measurements proved
> is that standing wave current doesn't change phase
> relative to the feedpoint current phase. They did
> not measure the delay through a coil. They measured
> the phase shift through the coil using a current that
> doesn't change phase relative to the two measurement
> points. The same thing happens with a wire.
>
> To measure the actual delay through a coil, traveling
> wave current must be used. I am apparently the only
> one who ran that actual experiment. I guarantee if
> anyone performs that experiment in a valid manner,
> they will see similar results to mine. Here's the
> setup that I used to measure a ~25 nS delay through
> a 75m bugcatcher coil at 4 MHz.
>
> http://www.w5dxp.com/coiltest.GIF
>
> You should be able to achieve that setup in your
> physics lab.

Did you figure out the Z0 of your coil using the Tesla coil
math, and then just assume there were no standing waves, or did
you prove the absence of standing waves through experiment?
73,
Tom Donaly, KA6RUH

2190. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 17:20:52 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <YHoFl.12196$jZ1.1161@flpi144.ffdc.sbc.com>
Source record: 16414

JB wrote:
> "Cecil Moore" <nospam@w5dxp.com> wrote in message
> news:jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com...
>> Brian Oakley wrote:
>>> As Jesus was the fulfillment of the Law, his choice to forgive is what
>>> is true. The penalty was paid. There was a death for the adultery.
>> So why is the Old Testament included in The Bible
>> if Jesus rendered it meaningless and irrelevant?
>> --
>> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> Not meaningless and irrelevant. The law is to be considered and respected,
> but is not the main point. The Jews asked for the law because they were too
> afraid of the voice of God. Obedience to his voice would have been more
> pleasing. God seems to be in tune with what we need but there is no way we
> are going to get in the way of His plans. Jesus was the right hand of God
> reaching out to us. If that doesn't strike you with awe, and it is all
> meaningless to you, then you have no heart and morality is what you make up
> just like the animals. Essentially a "heathen".
>
> And you wonder why children who have been taught they are no more than
> "evolved primordial soup" go to school with "Natural Selection" T-shirts and
> kill as many as they can for sport. And why abortion is being promoted as a
> painless way to make genocide acceptable. I pray America and its people
> finds their way back to God before He sends his blessing elsewhere.
>
> As far as Newton's theory... I thought he dealt primarily with forces.
> Works well with things like magnetism, gravity and mechanics, but when you
> introduce AC and antenna theory, it becomes very complex and the pages start
> to fill with Math. Not easy to explain in a news post. I have yet to see
> any of the Math in these posts, which speaks to the fact that everyone is
> too lazy to do more than talk about it.
>

To Cecil;
Quit baiting the fundamentalists. This is an antenna newsgroup,
not a t.v. evangelist God-is-agonna-gitcha newsgroup.
73,
Tom Donaly, KA6RUH

2191. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 19:11:19 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <bkbcu4d9j238q45ve7roc82e63i735nu0q@4ax.com>
Source record: 16415

On Wed, 15 Apr 2009 10:08:21 -0700, "Tom Donaly"
<dtdonaly@sbcglobal.net> wrote:

>Cecil Moore wrote:
>> they will see similar results to mine.
>Did you figure out the Z0 of your coil using the Tesla coil
>math, and then just assume there were no standing waves, or did
>you prove the absence of standing waves through experiment?

Hi Tom,

There is only the hint of a gejoken experiment. I notice nothing
other than a cartoon, and nothing in the way of instrumentation
described, much less the vaunted "results" (no doubt the final
metaphysical tabulation came from some alchemistry). Certainly no
antenna (nor dish reflector that matter). How it relates to a loaded
short monopole would probably provoke an essay as elaborate as the
coronation oratory for a pope.

73's
Richard Clark, KB7QHC

2192. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 19:51:04 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <OOqFI.15772$8_3.762@flpi147.ffdc.sbc.com>
Source record: 16416

Richard Clark wrote:
> On Wed, 15 Apr 2009 10:08:21 -0700, "Tom Donaly"
> <dtdonaly@sbcglobal.net> wrote:
>
>> Cecil Moore wrote:
>>> they will see similar results to mine.
>> Did you figure out the Z0 of your coil using the Tesla coil
>> math, and then just assume there were no standing waves, or did
>> you prove the absence of standing waves through experiment?
>
> Hi Tom,
>
> There is only the hint of a gejoken experiment. I notice nothing
> other than a cartoon, and nothing in the way of instrumentation
> described, much less the vaunted "results" (no doubt the final
> metaphysical tabulation came from some alchemistry). Certainly no
> antenna (nor dish reflector that matter). How it relates to a loaded
> short monopole would probably provoke an essay as elaborate as the
> coronation oratory for a pope.
>
> 73's
> Richard Clark, KB7QHC

Hi Richard,
Cecil has never been too effective when it comes to doing
experiments. When asked to do math, he's even more sunk. I'm surprised
he even managed to do a "gejoken" experiment.
73,
Tom Donaly, KA6RUH

2193. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 20:14:44 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SerFl.13648$%54.6764@nlpi070.nbdc.sbc.com>
Source record: 16417

Tom Donaly wrote:
> Did you figure out the Z0 of your coil using the Tesla coil
> math, and then just assume there were no standing waves, or did
> you prove the absence of standing waves through experiment?

The standing waves don't have to be eliminated,
just reduced until the traveling wave dominates
the waveform. I added 600 ohm non-inductive
resistors in series until the reflections were
negligible and the traveling wave dominated the
waveform.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2194. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 20:18:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <JirFl.13650$%54.7632@nlpi070.nbdc.sbc.com>
Source record: 16418

Richard Clark wrote:
> I notice nothing other than a cartoon, ...

I'm sorry if this seems like rocket science
to you. I used toroidal pickups at the current
sample points and viewed the current waveforms
on a 100 MHz dual-trace oscilloscope.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2195. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 21:34:09 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs5jt0ogv1@news.service.uci.edu>
Source record: 16419

Cecil Moore wrote:
>
> The standing waves don't have to be eliminated,
> just reduced until the traveling wave dominates
> the waveform. I added 600 ohm non-inductive
> resistors in series until the reflections were
> negligible and the traveling wave dominated the
> waveform.

So why do you have to go to all that trouble when you want to measure traveling wave current, but not when you want to measure traveling wave energy?

ac6xg

2196. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 22:11:56 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <KYsFl.24020$c45.22903@nlpi065.nbdc.sbc.com>
Source record: 16420

Jim Kelley wrote:
> So why do you have to go to all that trouble when you want to measure
> traveling wave current, but not when you want to measure traveling wave
> energy?

When one measures traveling wave energy, one
is measuring an average calculated scalar value
usually forward power minus reflected power or
RMS V*I in a dummy load resistor.

When one is measuring delay, one is measuring
instantaneous traveling wave phase in real time.
Trigger on the zero crossing of the input signal
and measure the delay until the output signal
crosses zero.

That delay measurement doesn't work for standing-
wave current because the zero-crossing on the
input and output occur virtually simultaneously,
i.e. there is no relative phase shift between
input and output or between any two points on a
1/4WL wire monopole.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2197. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 22:18:07 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5jlcu41kur5b9nopjbrf1ebq0r3f5udnhg@4ax.com>
Source record: 16421

On Wed, 15 Apr 2009 15:18:51 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> I notice nothing other than a cartoon, ...
>
>I'm sorry if this seems like rocket science
>to you.

And this from the cartoonist.

It readily explains how poorly the gejoken experiment started. Let's
see how many yuks it will get through conventional issues

>I used toroidal pickups at the current
>sample points and viewed the current waveforms
>on a 100 MHz dual-trace oscilloscope.

No mention of make, no readings, no pretense at discussion of those
things that contribute to error (and, as such, no need for Cecil to
apologize for being wrong until he is painted into his usual corner).

So, from this sloppiness called
>>anyone performs that experiment in a valid manner,
I suppose I have to fill in the blanks and watch Cecil sputter that it
wasn't like that at ALL!!! The cartoonist is most comfortable in
simple things, certainly; but measurement is best left to
professionals.

>>measure a ~25 nS delay
which is the same as a 40 MHz event, but in some "100 MHz" scopes, and
depending upon a myriad of settings (anyone practiced in the art would
realize how many), signal amplitude being one; that same BW can tumble
to 20 MHz to the unsuspecting user's surprise (Cecil can now react in
mock surprised shock). With a roll-off of 3dB per octave (another
concept that is foreign to digital engineers, such is Cecil's legacy),
phase measurement errors begin to run away. We don't even get the
Sunday comics form of math!

OK, so
>>measure a ~25 nS delay
is so much of a hodge-podge, a place marker, a spit into the wind,
something summoned up for the unwashed so the author could bask in
their awe-shucks. If we were to simply accept it (GASP!), what does
it say of the delay introduction of the
>toroidal pickups at the current sample points

More magik happens here no doubt. I won't ask Cecil what his data is for these items because he doesn't have any (at least until he rummages up the dutch courage to fake it).

And what about the phase issues of the 4000 Ohm resistor (which conveniently snubs what might be found in the rest of the antenna now long discarded such that this becomes an onanistic exercise)? Again, no point in asking for data that doesn't exist (you can't even fake it). Magik abounds because Cecil's best work is cartoonistry, not science, and certainly not rocket science.

So, a very quick enumeration of points any experimenter would have come into the discussion with, rather than trailing behind like a dancing bear with blisters.

But I like gejoken experiments, and Cecil's clowning offers the dovetail to Art's when he isn't here complaining about the nails in his hands. I would give this, maybe, 3 yuks.

73's
Richard Clark, KB7QHC

2198. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 22:27:07 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <AatFl.6384$gC1.3442@newsfe19.iad>
Source record: 16422

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com...
> Brian Oakley wrote:
>> As Jesus was the fulfillment of the Law, his choice to forgive is what is
>> true. The penalty was paid. There was a death for the adultery.
>
> So why is the Old Testament included in The Bible
> if Jesus rendered it meaningless and irrelevant?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Because its not meaningless and irrelavent. Its there to show you why Jesus
had to come. He is the fulfillment of the Law. If He is the fullfillment,
then you have to understand what is in the Law and why He had to fulfill it.
The OT is there to point to Jesus in every book.
B

2199. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 22:30:28 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <ldtFl.6385$gC1.2999@newsfe19.iad>
Source record: 16423

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
news:YHoFl.12196$jZ1.1161@flpi144.ffdc.sbc.com...
> JB wrote:
>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>> news:jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com...
>>> Brian Oakley wrote:
>>>> As Jesus was the fulfillment of the Law, his choice to forgive is what
>>>> is true. The penalty was paid. There was a death for the adultery.
>>> So why is the Old Testament included in The Bible
>>> if Jesus rendered it meaningless and irrelevant?
>>> --
>>> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>>
>> Not meaningless and irrelevant. The law is to be considered and
>> respected,
>> but is not the main point. The Jews asked for the law because they were
>> too
>> afraid of the voice of God. Obedience to his voice would have been more
>> pleasing. God seems to be in tune with what we need but there is no way
>> we
>> are going to get in the way of His plans. Jesus was the right hand of
>> God
>> reaching out to us. If that doesn't strike you with awe, and it is all
>> meaningless to you, then you have no heart and morality is what you make
>> up
>> just like the animals. Essentially a "heathen".
>>
>> And you wonder why children who have been taught they are no more than
>> "evolved primordial soup" go to school with "Natural Selection" T-shirts
>> and
>> kill as many as they can for sport. And why abortion is being promoted
>> as a
>> painless way to make genocide acceptable. I pray America and its people
>> finds their way back to God before He sends his blessing elsewhere.
>>
>> As far as Newton's theory... I thought he dealt primarily with forces.
>> Works well with things like magnetism, gravity and mechanics, but when
>> you
>> introduce AC and antenna theory, it becomes very complex and the pages
>> start
>> to fill with Math. Not easy to explain in a news post. I have yet to
>> see
>> any of the Math in these posts, which speaks to the fact that everyone is
>> too lazy to do more than talk about it.

>>
>
> To Cecil;
> Quit baiting the fundamentalists. This is an antenna newsgroup,
> not a t.v. evangelist God-is-agonna-gitcha newsgroup.
> 73,
> Tom Donaly, KA6RUH

Youre right. God isnt out to gitcha.
B

2200. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-15 22:33:58 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <_gtFl.6386$gC1.5559@newsfe19.iad>
Source record: 16424

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gs4nat$bk72$1@tr22n12.aset.psu.edu...
> Brian Oakley wrote:
>>
>> "Michael Coslo" <mjc5@psu.edu> wrote in message
>> news:grvn51$jo6i$1@tr22n12.aset.psu.edu...
>>
>>> Many adulterers are stoned already...
>>>
>>> Of course it is a little difficult to figure out just what an adulterer
>>> is anyhow. If you raid a neighboring village, you can take the women as
>>> slaves and wives, somehow it was okay for Job's daughters to get him
>>> drunk and boink him. Go figure...
>>>
>>> - 73 de Mike N3LI -
>>
>> Just what makes you think its supposed to be ok?
>
>
> It wasn't exactly condemned now was it?
>
> - 73 de Mike N3LI -

Uh, if you read closely, thats a narrative of what took place. Life
happens, good and bad. This is what the Bible is about, the good, the bad,
and the ugly. It has nothing to hide about people and they wrong they do. If
God doesnt jump in and throw down a thunderbolt or two, you think that means
He thinks its ok? Im sorry, but you really dont understand much about God
or the Bible by showing that kind of thinking. Surely youre not that naive.
I think youre just biased, which is ok, but at least admit it.
B

2201. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 00:35:30 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <72ucu4tgkjb4enskm6is1jb79t54775oh0@4ax.com>
Source record: 16425

On Wed, 15 Apr 2009 17:11:56 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Jim Kelley wrote:
>> So why do you have to go to all that trouble when you want to measure
>> traveling wave current, but not when you want to measure traveling wave
>> energy?
>
>When one measures traveling wave energy, one
>is measuring an average calculated scalar value
>usually forward power minus reflected power or
>RMS V*I in a dummy load resistor.

Sounds like "one" Cecil is shy of experimental horsepower. And for
"energy" yet. Another gejoken experiment where the energy of current
(known) and the energy of voltage (known) has the requirement of
finding the gejoken energy (unknown to Cecil, except as an abstraction
spread out over time and phaseless) squared? Some"one" isn't trying
very hard.

The question wasn't about energy squared. It wasn't about RMS (who
cares? Isn't there a scope sitting nearby?). It wasn't about a dummy
load resistor. But these objections do make a nice list of excuses. I
can well imagine that list will only get longer as the list of
experimental options shrinks into a cerebral vacuum.

73's
Richard Clark, KB7QHC

2202. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 03:18:17 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <0yxFl.14827$pr6.2797@flpi149.ffdc.sbc.com>
Source record: 16427

Richard Clark wrote:
> With a roll-off of 3dB per octave (another
> concept that is foreign to digital engineers, such is Cecil's legacy),
> phase measurement errors begin to run away.

Oh yeah, I almost forgot your earlier postings. Only
you are capable of measurements. Everyone else in the
world sucks. This from the person who asserts that
the reflections from non-reflective glass are brighter
than the surface of the sun.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2203. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 03:21:02 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <BAxFl.14828$pr6.5786@flpi149.ffdc.sbc.com>
Source record: 16428

Brian Oakley wrote:
> Youre right. God isnt out to gitcha.

You're wrong about that. If God knows what I
am going to do tomorrow then I have no choice
and do not possess free will. If God doesn't
know what I am going to do tomorrow, then He
is not omniscient. QED.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2204. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 03:27:57 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gs6518$nc5c$1@tr22n12.aset.psu.edu>
Source record: 16426

Brian Oakley wrote:

>>> Just what makes you think its supposed to be ok?
>>
>>
>> It wasn't exactly condemned now was it?
>>
>> - 73 de Mike N3LI -
>
> Uh, if you read closely, thats a narrative of what took place. Life
> happens, good and bad. This is what the Bible is about, the good, the
> bad, and the ugly. It has nothing to hide about people and they wrong
> they do. If God doesnt jump in and throw down a thunderbolt or two, you
> think that means He thinks its ok? Im sorry, but you really dont
> understand much about God or the Bible by showing that kind of
> thinking. Surely youre not that naive. I think youre just biased, which
> is ok, but at least admit it.

We have a lot of things declared as abominations in the bible, we have a lot of things on the OT that condemn people to death also. Considering how some of these things are latched onto by those who would promote themselves as the holy these days, I find it a little amusing. I also see those folks more as Pharisees.

If you want to know my bias, read the Sermon on the Mount. Most of the rest is dross.

- 73 de Mike N3LI -

2205. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 05:07:21 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com>
Source record: 16429

Brian Oakley wrote:
>
> "Cecil Moore" <nospam@w5dxp.com> wrote in message
> news:jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com...
>> Brian Oakley wrote:
>>> As Jesus was the fulfillment of the Law, his choice to forgive is
>>> what is true. The penalty was paid. There was a death for the adultery.
>>
>> So why is the Old Testament included in The Bible
>> if Jesus rendered it meaningless and irrelevant?
>> --
>> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> Because its not meaningless and irrelavent. Its there to show you why
> Jesus had to come. He is the fulfillment of the Law. If He is the
> fullfillment, then you have to understand what is in the Law and why He
> had to fulfill it. The OT is there to point to Jesus in every book.
> B

Pure heresy! There's no way for you to know whether that is true or
not. You're wasting your time trying to find purpose in religious
scripture. As Alexander Pope wrote in his An Essay on Man: Epistle II:
"Know then thyself, presume not God to scan, The proper study of
mankind is man"
73,
Tom Donaly, KA6RUH

2206. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 05:23:09 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <PdzFl.5596$Lr6.3782@flpi143.ffdc.sbc.com>
Source record: 16430

Cecil Moore wrote:
> Brian Oakley wrote:
>> Youre right. God isnt out to gitcha.
>
> You're wrong about that. If God knows what I
> am going to do tomorrow then I have no choice
> and do not possess free will. If God doesn't
> know what I am going to do tomorrow, then He
> is not omniscient. QED.

Dangit, Cecil! You managed to scare another one out from under his rock. You know you aren't going to do anything but start an argument when you use logic and reason on a true believer. Christians have been fighting and arguing with each other, and killing each other since before the time of Arius over such things as whether non-Jewish Christians should be circumcised, and whether or not Christ was created by God or eternally co-existent with Him. If you're going to start an eternal religious thread, you can at least discuss why Nature is explainable using differential equations, or why evolution has produced so many religious nuts.
73,
Tom Donaly, KA6RUH

2207. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 06:00:37 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <utedu45hgjkodcjot9qjb1ljdclvtnp0gh@4ax.com>
Source record: 16431

On Wed, 15 Apr 2009 22:18:17 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> With a roll-off of 3dB per octave (another
>> concept that is foreign to digital engineers, such is Cecil's legacy),
>> phase measurement errors begin to run away.
>
>Oh yeah, I almost forgot your earlier postings.

Almost remembering is equally handicapped.

>Only you are capable of measurements.

Hardly, more the point is noting those who are not capable and clearly
demonstrate their ineptitude. I've ushered you through more than a
few of these to then hear your excuses of age, infirmity, poor
reading, and so on. You have the unfortunate circumstance of having
inhabited a binary world where there are only two answers - both
resolvable only to one place in the absence of noise. Ours is an
analog world that copes with noise and error, and what counts in life
is how much error. I enumerated several sources, you respond to none
(a binary choice). You allude to my capability for measurement as I
have measured the error of such scopes as yours and fixed them. You
are simply hoping your scope is within its range of capability and we
have yet to hear any reports of readings that would either confirm or
deny your claim. Well, if you don't provide the data, no one can call
you on a failure, right? Another binary choice that struggles for
breath in an analog world.

Let's look at the -3dB roll-off point and I ask you, how many degrees
of slippage does it represent? 0 and 1 are not competent answers.

>Everyone else in the world sucks.

A typical binary perspective and you are glad to force the choice. The
analog equivalent is some"one" else in the world sucks. It could be
parts-per-billion/million/thousand/hundred - but we can both agree
that rhetorically you've scored your point.

>This from the person who asserts that
>the reflections from non-reflective glass are brighter
>than the surface of the sun.

From your data, from your math, and from your argument. You couldn't
account for the missing energy, so you swept it under the prayer rug
with a mystical chant and abridged readings from your Psalter. Choose

another topic for the same outcome, you've suffered many such technical comparisons.

2208. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 11:40:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <VUEFI.14843$pr6.5158@flpi149.ffdc.sbc.com>
Source record: 16432

Richard Clark wrote:
> You are simply hoping your scope
> is within its range of capability ...

Measuring the delay of a 4 MHz RF signal through a device is hardly any different from measuring the delay of a 4 MHz digital square wave. Measuring the time from one zero-crossing to another is virtually a no-brainer. It doesn't take much of a setup to detect the difference between 25nS for the traveling wave current and w8ji's measured 3 nS or w7el's measured undetectabe (faster than light?) phase difference using the total current in a standing wave antenna which is 90% standing wave current.

Please design and run your own perfect experiment for determining the delay of a traveling wave through a 75m bugcatcher coil. I guarantee, if you perform it in a valid manner, it will agree qualitatively with my experiment.

What is it about the phase shift in 90 degrees of monopole that you don't understand?

```
**************************************************
EZNEC+ ver. 4.0
thin-wire 1/4WL vertical 4/16/2009 6:33:09 AM
--------------- CURRENT DATA ---------------
Frequency = 7.29 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97651 -0.42
3 .93005 -0.83
4 .86159 -1.19
5 .77258 -1.50
6 .66485 -1.78
7 .54059 -2.04
8 .40213 -2.28
9 .25161 -2.50
10 Open .08883 -2.71
**************************************************
```

> From your data, from your math, and from your argument.

There was no missing energy. Your superposition of
power was the problem. A three watt wave does not
destructively interfere with a two watt wave to
obtain a one watt result. That was explained to
you years ago when you first made that conceptual
error. The correct power merging equation must
contain an interference term unless the two
interfering waves are 90 degrees out of phase.

Hint: 3w + 2w - 2*SQRT(3w*2w) = 0.101 watts

There's no missing energy!
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2209. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 11:45:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <MTEFl.18976$as4.10430@nlpi069.nbdc.sbc.com>
Source record: 16433

Tom Donaly wrote:
> Dangit, Cecil! You managed to scare another one out from under his rock.
> You know you aren't going to do anything but start an argument when you
> use logic and reason on a true believer.

I'm sorry, Tom. From the beginning of creation,
God knew I was eventually going to make that
posting so I didn't have any choice. I hope God
knows that I am now going to stop doing that. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2210. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 15:23:37 UTC
From: kb9rqz@yahoooo.com
Message-ID: <28jeu49all3peehb08gpflls5cc3l4tuub@4ax.com>
Source record: 16434

On Wed, 15 Apr 2009 22:21:02 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Brian Oakley wrote:
>> Youre right. God isnt out to gitcha.
>
>You're wrong about that. If God knows what I
>am going to do tomorrow then I have no choice
>and do not possess free will.

there you are wrong God having foreknowledge of events does not
preclude your free will god would simply have knowledge for being able
to to access the time stream in nonlinear manner

> If God doesn't
>know what I am going to do tomorrow, then He
>is not omniscient. QED.
Id say thing were far more complex than that but that is a bit a
afield

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

2211. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 15:24:27 UTC
From: kb9rqz@yahoooo.com
Message-ID: <jcjeu495396gku7g2sd07enfeforgqg5ml@4ax.com>
Source record: 16435

On Thu, 16 Apr 2009 06:45:33 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Tom Donaly wrote:
>> Dangit, Cecil! You managed to scare another one out from under his rock.
>> You know you aren't going to do anything but start an argument when you
>> use logic and reason on a true believer.
>
>I'm sorry, Tom. From the beginning of creation,
>God knew I was eventually going to make that
>posting so I didn't have any choice.
no goid would simply know what choice you were going to make
> I hope God
>knows that I am now going to stop doing that. :-)

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head

<img
src="http://www.3ix.org/images/194_101_1.gif" alt="Reliable $1 Web Hosting by 3iX"
width="194" height="101" border="0">

altopia is never used by KB9RQZ
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

2212. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 16:10:48 UTC
From: JB <nospam@goofball.net>
Message-ID: <cMIFl.1138$b11.345@nwrddc02.gnilink.net>
Source record: 16436

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
news:G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com...
> Brian Oakley wrote:
> >
> > "Cecil Moore" <nospam@w5dxp.com> wrote in message
> > news:jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com...
> >> Brian Oakley wrote:
> >>> As Jesus was the fulfillment of the Law, his choice to forgive is
> >>> what is true. The penalty was paid. There was a death for the
adultery.
> >>
> >> So why is the Old Testament included in The Bible
> >> if Jesus rendered it meaningless and irrelevant?
> >> --
> >> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
> >
> > Because its not meaningless and irrelavent. Its there to show you why
> > Jesus had to come. He is the fulfillment of the Law. If He is the
> > fullfillment, then you have to understand what is in the Law and why He
> > had to fulfill it. The OT is there to point to Jesus in every book.
> > B
>
> Pure heresy! There's no way for you to know whether that is true or
> not. You're wasting your time trying to find purpose in religious
> scripture. As Alexander Pope wrote in his An Essay on Man: Epistle II:
> "Know then thyself, presume not God to scan, The proper study of
> mankind is man"
> 73,
> Tom Donaly, KA6RUH

I don't worship Alexander Pope.
I would agree that we can't judge God. We can't even judge ourselves let
alone properly judge each other. There is better love out there than "just
a piece of skin".

Darwin makes quite a leap from finches to "primordial ooze". Even in the
simplest of life forms an orchestra of machinery sustains the life. If any
piece is missing, the life can't be supported. So to believe that all
sprang up by accident, ready to reproduce from a rock seems to be an
unsupported religious belief in itself. But the Atheist will say this is
proof there is no God and leave it at that. Seems unscientific at best, but
then Hitler, Marx, The Columbine Kids and Manifest Destiny all embraced it.
Who's next?

2213. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 17:14:44 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e12d6c07-38a0-4c91-b401-f18e1781a56a@p4g2000vba.googlegroups.com>
Source record: 16437

On Apr 15, 5:11 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Jim Kelley wrote:
> > So why do you have to go to all that trouble when you want to measure
> > traveling wave current, but not when you want to measure traveling wave
> > energy?
>
> When one measures traveling wave energy, one
> is measuring an average calculated scalar value
> usually forward power minus reflected power or
> RMS V*I in a dummy load resistor.
>
> When one is measuring delay, one is measuring
> instantaneous traveling wave phase in real time.
> Trigger on the zero crossing of the input signal
> and measure the delay until the output signal
> crosses zero.
>
> That delay measurement doesn't work for standing-
> wave current because the zero-crossing on the
> input and output occur virtually simultaneously,
> i.e. there is no relative phase shift between
> input and output or between any two points on a
> 1/4WL wire monopole.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil
I don't understand what all this sniping is all about but it does
bring up a question from me that you may be able to shed some light
upon.
I modeled a helix antenna and because of this thread I went back to
look at the phasing aspect that I had not paid atention to before now.
The phase change goes from 86 degrees upto 106 degrees. It then
abruptly chamges
to -106 degress and slowly returnes to -086 degrees and then turns
about again to 86 degrees again e.t.c.
Does this have a relationship to slow wave? What is your take on my
modeling?
Many thanks for what time you may give to this
Best rergards
Art

2214. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 17:29:05 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <jdneu4dilei85gu9icnkc7uq9fs6vgo98g@4ax.com>
Source record: 16438

On Thu, 16 Apr 2009 06:40:33 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> You are simply hoping your scope
>> is within its range of capability ...
>
>Measuring the delay of a 4 MHz RF signal through a device

This is all the naive hope of absolute faith (a binary choice) in an instrument where you cannot distinguish between capability and desire. Let's face it. The enumeration of readings, the descriptions of all elements in full is very trivial and within the grasp of any ordinary bench tech. That it is so wholly missing from your discussion means that its revelation would expose a major error of design, or would reveal you are not practiced in the art of analog engineering.

You've had time enough to back-fill your virtual notebook with these details of normal procedure. Their sudden arrival in successive discussion won't have much authenticity.

>What is it about the phase shift in 90 degrees of
>monopole that you don't understand?

You are more flummoxed by the simpler problem of your own instrument's introduction of phase error at the -3dB point. If you cannot reconcile that at the bench, then this navel gazing problem of yours is sterile and pointless.

>> From your data, from your math, and from your argument.
>
>There was no missing energy.

More faith and hoping which culminates in the absurd:

>A three watt wave

This arrives from your fog of memory, a poor device I warned you about in the last post. As I pointed out, same outcome.

Is your apology of age, infirmity, or sloughing accuracy for speed next?

2215. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 17:35:15 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mrqeu4t8p2deolkfh8hcbekbl11efsr99l@4ax.com>
Source record: 16439

On Wed, 15 Apr 2009 22:07:21 -0700, "Tom Donaly"
<dtdonaly@sbcglobal.net> wrote:

>As Alexander Pope wrote in his An Essay on Man: Epistle II:
>"Know then thyself, presume not God to scan, The proper study of
>mankind is man"

Hi Tom,

You are proving a rising tide deluges derelicts.

73's
Richard Clark, KB7QHC

2216. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 19:29:24 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e6de70fc-81bd-4ac8-800d-5c5f7174beb0@e7g2000vbe.googlegroups.com>
Source record: 16440

On Apr 16, 12:29 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Thu, 16 Apr 2009 06:40:33 -0500, Cecil Moore <nos...@w5dxp.com>
> wrote:
>
> >Richard Clark wrote:
> >> You are simply hoping your scope
> >> is within its range of capability ...
>
> >Measuring the delay of a 4 MHz RF signal through a device
>
> This is all the naive hope of absolute faith (a binary choice) in an
> instrument where you cannot distinguish between capability and desire.
> Let's face it. The enumeration of readings, the descriptions of all
> elements in full is very trivial and within the grasp of any ordinary
> bench tech. That it is so wholly missing from your discussion means
> that its revelation would expose a major error of design, or would
> reveal you are not practiced in the art of analog engineering.
>
> You've had time enough to back-fill your virtual notebook with these
> details of normal procedure. Their sudden arrival in successive
> discussion won't have much authenticity.
>
> >What is it about the phase shift in 90 degrees of
> >monopole that you don't understand?
>
> You are more flummoxed by the simpler problem of your own instrument's
> introduction of phase error at the -3dB point. If you cannot
> reconcile that at the bench, then this navel gazing problem of yours
> is sterile and pointless.
>
> >> From your data, from your math, and from your argument.
>
> >There was no missing energy.
>
> More faith and hoping which culminates in the absurd:
>
> >A three watt wave
>
> This arrives from your fog of memory, a poor device I warned you about
> in the last post. As I pointed out, same outcome.
>
> Is your apology of age, infirmity, or sloughing accuracy for speed
> next?

Having scanned the above posting or what ever it is. I have a new
respect for those that hunt for relics with scrip on it and try to
decifer the meaning of such a wierd collection of shapes and scrawls.
Obviously a lot of work and fraustration which is nothing compared to
the disapointment of finally realising the content of the work under
study. Line after line of unrelating words with no connections between
the lines
which is obviously that of a child that faking an adult posture.
Put yourself into the bottle you just finished and hurl yourself out
to sea for the ages.

2217. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 19:41:04 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49e78bdc$0$20209$6d4158fb@reader.xsnews.nl>
Source record: 16441

"Cecil Moore" <nospam@w5dxp.com> wrote
> Calltrex wrote:
>>
>> How can one couple this ?
>> A coaxcable with a dummyload: runningwaves everywhere and U and I are in phase.
>> Now the resonant dipole: the U peaks at the ends end I tops in the midle. So very
reactive for the driver.
>
> Nope, you are confused, at least about resonant standing
> wave antennas like the 1/2WL dipole. Those peaks and nodes
> of the voltage and current are *AMPLITUDES*. Amplitudes have
> nothing to do with reactance. To detect the reactance, one
> must look at the *PHASE*. You are not looking at the phase.
>

+ +
+
+
+
+
+
==========+========== ï¿½ dipole
+
+
+
+
+
+
+
+ +
voltage

If what you say is true then why draws every antennabook the voltages like above?
We all know that an amplitude can not be negative in value! So all books are wrong?
And could you keep the answer at amateur levels pls?

2218. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 19:56:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <34MFI.27093$YU2.18070@nlpi066.nbdc.sbc.com>
Source record: 16442

Art Unwin wrote:
> It (the phase) then abruptly chamges ...
> Many thanks for what time you may give to this

Standing wave current creates some strange
illusions like zero current points accompanied
by an abrupt large phase shift on each side
of the current node. If you deal with the
underlying traveling waves instead of the total
component wave, things become a lot clearer.

The abrupt phase change happens every so often
in a standing wave antenna. It is presented for
an EDZ in graph form on page 465, Figure 14-4 of
"Antennas" by Kraus, 3rd edition available for
a few bucks at:

http://www.abebooks.com/servlet/SearchResults?an=Kraus&sts=t&tn=Antennas&x=55&y=10
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2219. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:00:43 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <K7MFI.27095$YU2.8538@nlpi066.nbdc.sbc.com>
Source record: 16443

Richard Clark wrote:
> More faith and hoping which culminates in the absurd:

Sorry Richard, I am not responsible for your ignorance
which is considerable. Exactly where did you get your
engineering degree?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2220. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:08:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <LeMFl.27097$YU2.22270@nlpi066.nbdc.sbc.com>
Source record: 16444

Art Unwin wrote:
> ... which is obviously that of a child that faking an adult posture.
> Put yourself into the bottle you just finished and hurl yourself out
> to sea for the ages.

I used to have a fuzz-phrase generator card. It had
three columns of ten words each. One could think
up any three digit number and then read the three
word fuzz-phrase off the card. 123 might result in:

flummoxed simpler problem

343 might be:

navel gazing problem

Richard has obviously written a similar computer
program except it seems to have ten columns of
100 words each.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2221. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:16:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <TeMFI.2608$fD.293@flpi145.ffdc.sbc.com>
Source record: 16445

Calltrex wrote:
> If what you say is true then why draws every antennabook the voltages
> like above?
> We all know that an amplitude can not be negative in value!

You would probably agree that the battery voltage
amplitude in your vehicle is +12 volts.

I once had a 1950 Dodge where the amplitude of the
battery voltage was -12 volts.

The instantaneous amplitude of the AC voltage out of
your wall socket at home goes negative every 60 Hz cycle.

So exactly why cannot voltage amplitudes be negative?

Changing the phase of an AC voltage by 180 degrees
changes the amplitude from positive to negative or
from negative to positive. That's what is happening
in the ASCII graphic that you drew.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2222. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:21:25 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <rs3fu4l9h4c8n3s9sgv0tgulmo6ipv586o@4ax.com>
Source record: 16446

On Thu, 16 Apr 2009 15:00:43 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:
>Sorry Richard,

Ah come on now, you aren't sorry at all. That is probably your worst
excuse, but any port in a storm.

>I am not responsible for your ignorance

Given the fog of your memory, we will visit these issues again (like 4
watts in a wave - what a howler!) when they appear fresh to you ;-)

2223. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:30:34 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <br4fu4pih2l9h8o7ib876dregdemhmk0nv@4ax.com>
Source record: 16447

On Thu, 16 Apr 2009 12:29:24 -0700 (PDT), Art Unwin
<ArthurUnwin@gmail.com> wrote:

>Having scanned the above posting or what ever it is. I have a new
>respect for those that hunt for relics with scrip on it and try to
>decifer the meaning of such a wierd collection of shapes and scrawls.

In your case, they usually begin with trying to make sense of your
Tudor grammar and spelling (probably why you spit on that up and
coming Shakespeare and his new-fangled writing).

2224. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:36:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <fFMFI.27098$YU2.6432@nlpi066.nbdc.sbc.com>
Source record: 16448

Richard Clark wrote:
> Given the fog of your memory, we will visit these issues again (like 4
> watts in a wave - what a howler!) when they appear fresh to you ;-)

Our QRP friends would like for you to prove that
a wave cannot deliver 4 joules/sec through a transmission
line to an antenna. That 4 joules/sec can be measured by
a Bird wattmeter installed anywhere on the transmission
line.

Do you think that advertising a 100 milliwatt
laser is false advertising?

Again, exactly where did you get your Electrical
Engineering and/or Physics degrees?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2225. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:38:49 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <ANMFl.14861$pr6.11862@flpi149.ffdc.sbc.com>
Source record: 16449

Richard Clark wrote:
> On Wed, 15 Apr 2009 22:07:21 -0700, "Tom Donaly"
> <dtdonaly@sbcglobal.net> wrote:
>
>> As Alexander Pope wrote in his An Essay on Man: Epistle II:
>> "Know then thyself, presume not God to scan, The proper study of
>> mankind is man"
>
> Hi Tom,
>
> You are proving a rising tide deluges derelicts.
>
> 73's
> Richard Clark, KB7QHC

Hi Richard,
Hopefully.
73,
Tom Donaly, KA6RUH

2226. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 20:55:46 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs861ahbk1@news.service.uci.edu>
Source record: 16450

Cecil Moore wrote:
> Jim Kelley wrote:
>> So why do you have to go to all that trouble when you want to measure
>> traveling wave current, but not when you want to measure traveling
>> wave energy?
>
> When one measures traveling wave energy, one
> is measuring an average calculated scalar value
> usually forward power minus reflected power or
> RMS V*I in a dummy load resistor.

Not necessarily.

> When one is measuring delay, one is measuring
> instantaneous traveling wave phase in real time.

Why not just measure the delay in the instantaneous arrival of energy? That's what pulses generators are for. Or, simply subtract the undesired wave from each measurement. Search on the term 'Thruline' for some tips on how to measure traveling waves.

> Trigger on the zero crossing of the input signal
> and measure the delay until the output signal
> crosses zero.

> That delay measurement doesn't work for standing-
> wave current because the zero-crossing on the
> input and output occur virtually simultaneously,
> i.e. there is no relative phase shift between
> input and output or between any two points on a
> 1/4WL wire monopole.

Flummoxed by a 'wave' which, by all accounts, does not actually exist as such - and yet according to you it can have (or can't have, depending on which post one reads) a phase shift or delay, whichever you prefer, and which (according to you) has actually been quantified (3nS) by others.

It's worthy of a at least a crank.net citation if not a full article in the Journal of Irreproducible Results. :-)

The problem is that it's difficult to put much faith in the measurements you report when you so badly misunderstand and mischaracterize the measurements reported by others. That is the only point of any of this, Art.

ac6xg

2227. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 21:03:01 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <3YMFl.16464$D32.6384@flpi146.ffdc.sbc.com>
Source record: 16351

JB wrote:
> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
> news:G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com...
>> Brian Oakley wrote:
>>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>> news:jdaFl.14586$hc1.14348@flpi150.ffdc.sbc.com...
>>>> Brian Oakley wrote:
>>>>> As Jesus was the fulfillment of the Law, his choice to forgive is
>>>>> what is true. The penalty was paid. There was a death for the
> adultery.
>>>> So why is the Old Testament included in The Bible
>>>> if Jesus rendered it meaningless and irrelevant?
>>>> --
>>>> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>>> Because its not meaningless and irrelavent. Its there to show you why
>>> Jesus had to come. He is the fulfillment of the Law. If He is the
>>> fullfillment, then you have to understand what is in the Law and why He
>>> had to fulfill it. The OT is there to point to Jesus in every book.
>>> B
>> Pure heresy! There's no way for you to know whether that is true or
>> not. You're wasting your time trying to find purpose in religious
>> scripture. As Alexander Pope wrote in his An Essay on Man: Epistle II:
>> "Know then thyself, presume not God to scan, The proper study of
>> mankind is man"
>> 73,
>> Tom Donaly, KA6RUH
>
> I don't worship Alexander Pope.
> I would agree that we can't judge God. We can't even judge ourselves let
> alone properly judge each other. There is better love out there than "just
> a piece of skin".
>
> Darwin makes quite a leap from finches to "primordial ooze". Even in the
> simplest of life forms an orchestra of machinery sustains the life. If any
> piece is missing, the life can't be supported. So to believe that all
> sprang up by accident, ready to reproduce from a rock seems to be an
> unsupported religious belief in itself. But the Atheist will say this is
> proof there is no God and leave it at that. Seems unscientific at best, but
> then Hitler, Marx, The Columbine Kids and Manifest Destiny all embraced it.
> Who's next?
>

You don't worship Pope and probably haven't read him, either. Hitler was
a Christian, as was Savonarola, and King Leopold II of Belgium. There

was even a Fundie dictator in Guatemala, whose name escapes me, but who was also a mass murderer. It's o.k. if you want to believe the universe is only 6000 years old. Fine. It's also o.k. if you want to believe you're morally superior to everyone you disagree with. But this is an antenna newsgroup, not a holier-than-thou newsgroup. Unless you can relate how God's Plan for the Universe includes antenna theory revelations that will change Ham-radio-as-we-know-it-forever, take your self-congratulatory theology to another venue.
73,
Tom Donaly, KA6RUH

2228. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 21:38:46 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <eeudnVc6f8j7OHrUnZ2dnUVZ_jKdnZ2d@posted.easystreetonline>
Source record: 16352

Calltrex wrote:
>
> + +
> +
> +
> +
> +
> +
> ====================+============================ ï¿½ dipole
> +
> +
> +
> +
>
> If what you say is true then why draws every antennabook the voltages
> like above?
> We all know that an amplitude can not be negative in value! So all
> books are wrong?
> And could you keep the answer at amateur levels pls?

I can't answer for "every antennabook" except to say that any book showing a graph like that and claiming it's a graph of antenna voltage is wrong. As Tom K7ITM recently pointed out, you can't determine a voltage at some point along the wire, as implied by the graph. A voltage only exists *between* two points, and in the the presence of the fields around an antenna, the voltage between two points also depends on the path you take between them -- conceptually, it depends on how you position your meter leads. You *can* find the strength of the E field near various points along the antenna (and it looks pretty much like the graph), but that's not the same as a voltage.

A resonant antenna is one having a feedpoint impedance that's purely resistive, that is, it has no reactance. This impedance is the feedpoint voltage divided by the feedpoint current; the feedpoint voltage is the voltage between the two terminals. The reactance is zero only if the feedpoint voltage and current are exactly in phase, and regardless of their amplitudes.

If the terminals are very far apart in terms of wavelength, you have the same problem in measuring or even defining voltage between them as you do with points along the antenna. So the common definition makes the assumption that the feedpoint terminals are very close together.

Roy Lewallen, W7EL

2229. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 21:55:43 UTC
From: "Bruce W. Ellis" <ellis@means.net>
Message-ID: <0f7du41dcjeo8vj87m6f7jk367t3qa931u@4ax.com>
Source record: 16353

Mike Coslo <mjc5@psu.edu> wrote:

>Brian Oakley wrote:
>
>>>> Just what makes you think its supposed to be ok?
>>>
>>>
>>> It wasn't exactly condemned now was it?
>>>
>>> - 73 de Mike N3LI -
>>
>> Uh, if you read closely, thats a narrative of what took place. Life
>> happens, good and bad. This is what the Bible is about, the good, the
>> bad, and the ugly. It has nothing to hide about people and they wrong
>> they do. If God doesnt jump in and throw down a thunderbolt or two, you
>> think that means He thinks its ok? Im sorry, but you really dont
>> understand much about God or the Bible by showing that kind of
>> thinking. Surely youre not that naive. I think youre just biased, which
>> is ok, but at least admit it.
>
>
>We have a lot of things declared as abominations in the bible, we have a
>lot of things on the OT that condemn people to death also. Considering
>how some of these things are latched onto by those who would promote
>themselves as the holy these days, I find it a little amusing. I also
>see those folks more as Pharisees.
>
>If you want to know my bias, read the Sermon on the Mount. Most of the
>rest is dross.
>
> - 73 de Mike N3LI -

Just what we need on the ham antenna newsgroup - a rambling thread on
the meaning of the bible.. Come on, there are better places for your
pseudophilosophical ramblings.

Maybe I can connect my dipoles on sky hooks?

W0BF

2230. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 22:08:42 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <q9afu4hd88l0gvj893qkj5833414j7ql82@4ax.com>
Source record: 16354

On Thu, 16 Apr 2009 15:36:28 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Richard Clark wrote:
>> Given the fog of your memory, we will visit these issues again (like 4
>> watts in a wave - what a howler!) when they appear fresh to you ;-)
>
>Our QRP friends would like for you to prove

Watts in a wave (and still howlin'): the Aurora Cecealis....
QED

Need more proof? Tonight, turn out the lights and read a book on
optics. ;-)

2231. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-16 23:41:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <81587e6d-296b-4b6e-a685-24f4a3a921a1@r33g2000yqn.googlegroups.com>
Source record: 16355

On Apr 16, 3:55 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> Cecil Moore wrote:
> > Jim Kelley wrote:
> >> So why do you have to go to all that trouble when you want to measure
> >> traveling wave current, but not when you want to measure traveling
> >> wave energy?
>
> > When one measures traveling wave energy, one
> > is measuring an average calculated scalar value
> > usually forward power minus reflected power or
> > RMS V*I in a dummy load resistor.
>
> Not necessarily.
>
> > When one is measuring delay, one is measuring
> > instantaneous traveling wave phase in real time.
>
> Why not just measure the delay in the instantaneous arrival of energy?
> That's what pulses generators are for. Or, simply subtract the
> undesired wave from each measurement. Search on the term 'Thruline' for
> some tips on how to measure traveling waves.
>
> > Trigger on the zero crossing of the input signal
> > and measure the delay until the output signal
> > crosses zero.
> > That delay measurement doesn't work for standing-
> > wave current because the zero-crossing on the
> > input and output occur virtually simultaneously,
> > i.e. there is no relative phase shift between
> > input and output or between any two points on a
> > 1/4WL wire monopole.
>
> Flummoxed by a 'wave' which, by all accounts, does not actually exist as
> such - and yet according to you it can have (or can't have, depending on
> which post one reads) a phase shift or delay, whichever you prefer, and
> which (according to you) has actually been quantified (3nS) by others.
>
> It's worthy of a at least a crank.net citation if not a full article in
> the Journal of Irreproducible Results. :-)
>
> The problem is that it's difficult to put much faith in the measurements
> you report when you so badly misunderstand and mischaracterize the
> measurements reported by others. That is the only point of any of this,
> Art.

>
> ac6xg

Jim,
you were kind enough to state what the point was. Frankly that problem applies to me
because my education was as a mechanical engineer and only a small interest in the electrical stuff as it appeared to be all about mathematics. What I don't understand that the argument and insults are between Americans with the same training at American colleges
(excluding Richard ofcourse who chose literature of olde England)
Both sides should be able to understand what the other is saying! It has been debated in earnest for several years now and all have failed to connect.For my ideas that sort of misunderstanding is obviously my fault and I understand that but it allows Richard to jump in with a lack of knowledge but skilled in insults that are buried like a crossword puzzle and his aproach to the killing fields and which many tend to follow.Most of you are skilled engineers with a firm knowledge of radio and yet most of you talk pass each other on the technical subjects. One side or the other must have an understanding of the problem so why not display it point by point in a reasonable debate so that peace can come about?
Jim, I mean no disrespect in anyway towards you and look forward to your posts but things have to change on this group or its contributions to radio will come to naught.
For me a standing wave is the measurement of disparity between a closed circuit and the period of the frequency in use and nothing more, so all this other talk is beyond my ken
Best regards
Art

2232. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 00:17:26 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gs8hrg$li3$1@news.service.uci.edu>
Source record: 16356

Cecil Moore wrote:

> If the system contains only traveling waves, the delay
> is proportional to the phase shift. If the system contains
> only standing waves,

Since a standing wave is an interference pattern created by traveling waves, having 'only standing waves' would obviously be an impossible circumstance.

> Traveling wave current changes phase relative to the source
> current.

Yes, especially with distance - but only if it's a source of traveling waves. Evidently there's some chance it could be a source that produces only standing waves. :-)

> Standing wave current does not change phase relative to
> the source current.

I urge you to please investigate the mathematical issues associated with summing counter-rotating vectors.

> Therefore, standing wave current phase cannot be used to
> measure delay through a wire or through a coil.

Correct me if I'm wrong, but as far as I know you are the only one suggesting that standing wave current phase - whatever that is - could be delayed, measured, and calculated.

ac6xg

2233. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 02:43:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <u7SFl.14878$pr6.9177@flpi149.ffdc.sbc.com>
Source record: 16357

Jim Kelley wrote:
> Why not just measure the delay in the instantaneous arrival of energy?

Why make something difficult out of a simple
problem? How can you tell one packet of energy
from another? Please do the measurement if you
choose and report back what you find.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2234. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 02:47:36 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <gbSFl.14879$pr6.10939@flpi149.ffdc.sbc.com>
Source record: 16358

Richard Clark wrote:
> Watts in a wave (and still howlin')

No joules/second in a wave - now that's a howl.
No watts/unit-area in irradiance either? :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2235. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 02:48:57 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xcSFI.14881$pr6.904@flpi149.ffdc.sbc.com>
Source record: 16359

Art Unwin wrote:
> Both sides should be able to understand what the other is saying!

Don't worry about it, Art. My dog doesn't understand
it either.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2236. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 02:57:11 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <fkSFl.14882$pr6.11064@flpi149.ffdc.sbc.com>
Source record: 16360

Jim Kelley wrote:
> Since a standing wave is an interference pattern created by traveling
> waves, having 'only standing waves' would obviously be an impossible
> circumstance.

Nonsense. All it takes is two identical waves traveling in
opposite directions along the same path. Such happens at the
open-circuit or short-circuit point in a 1/4WL stub.

> I urge you to please investigate the mathematical issues associated with
> summing counter-rotating vectors.

I have, Jim. It is you who seems confused. If two coherent
phasors of equal amplitudes and opposite rotations are
phasor-added, the resulting total phase is a constant.

1 at zero deg + 1 at zero deg = 2 at zero deg
1 at 45 deg + 1 at -45 deg = 1.4.4 at zero deg
etc.

> Correct me if I'm wrong, but as far as I know you are the only one
> suggesting that standing wave current phase - whatever that is - could
> be delayed, measured, and calculated.

Nonsense, Jim, standing wave current phase is what EZNEC
reports for a standing-wave antenna.

If you are incapable of comprehending, don't feel bad.
My dog doesn't understand it either but I still love her.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2237. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 03:32:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ZQSFl.14883$pr6.13105@flpi149.ffdc.sbc.com>
Source record: 16361

Jim Kelley wrote:
> Since a standing wave is an interference pattern created by traveling
> waves, having 'only standing waves' would obviously be an impossible
> circumstance.

Time to hit the books, Jim. Standing waves are described
in Born and Wolf, section 7.4, pages 297-281, 4th edition.

"We see that at each instant in time the *phase is constant*
through the first medium." The first medium is where the
pure standing waves are. Born and Wolf agree that the phase
of the standing wave doesn't change throughout the medium.
Therefore, its phase cannot be used to measure delay.

The same material is covered in "Optics", by Hecht, section
7.1.4, pages 288-293, 4th edition.

"[Standing wave phase] "*doesn't rotate* at all, and the
resultant wave it represents doesn't progress through space -
its a standing wave."

If you are incapable of understanding that material,
I'm afraid I cannot help you.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2238. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 14:43:54 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsa4ja$ec0s$1@tr22n12.aset.psu.edu>
Source record: 16362

JB wrote:
> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
> news:G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com...
>> Brian Oakley wrote:
>>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>>
> Darwin makes quite a leap from finches to "primordial ooze".

He makes no such leap.

Even in the
> simplest of life forms an orchestra of machinery sustains the life. If any
> piece is missing, the life can't be supported.

No. There are many processes that make up portions of life forms that are quite complex, yet still function if portions go missing the Blood Clotting cascade is one such example.

The eye has been a poster child of Creationists, yet it is at root a reaction to an energy input. There is a clear progression from simple bacterial to raptor vision (we humans do not have the "best eyes" in creation)

> So to believe that all
> sprang up by accident, ready to reproduce from a rock seems to be an
> unsupported religious belief in itself.

There is a straw man for sure. Life such as it is never sprung from a rock. A lot of things had to happen first.

> But the Atheist will say this is
> proof there is no God and leave it at that.

Straw man again. Atheism is not in any way shape or form a requirement to support the idea that evolution is the method in which life forms adapt to their surroundings. There is no proof that there is no God.

> Seems unscientific at best, but
> then Hitler, Marx, The Columbine Kids and Manifest Destiny all embraced it.
> Who's next?

Good heavens JB!. Could you provide the citations about the Columbine kids views on Evolution? Shame. May they rest in peace.

Hitler was interesting here are a few quotes:

"My feelings as a Christian points me to my Lord and Savior as a fighter."

Munich, 1922

"We are a people of different faiths, but we are one. Which faith conquers the other is not the question; rather, the question is whether Christianity stands or falls.... We tolerate no one in our ranks who attacks the ideas of Christianity... in fact our movement is Christian. We are filled with a desire for Catholics and Protestants to discover one another in the deep distress of our own people."

Passau, 1928

I guess he didn't care for the Sermon on the Mount!

And the roots of Manifest destiny can be traced John Winthrop's "City upon a Hill" sermon in 1630.

If you choose to believe that evolution is false, that is fine, but we are at the point in the argument where the statement is sufficient argument of disbelief. There is too much evidence supporting evolution, and no science disproving it. It takes almost as much faith to not believe in evolution now as it does to believe in a flat earth.

Creationists have unwittingly be one of the greatest forces in research in evolution, as their searching for "faults" in the theory have served as a spur to scientists and research.

Too often, Creationists assume the binary decision, in that anything that is not presently explained by science relating to evolutionary processes means that Evolution is wrong, so the only other choice is Creationism.

But seriously the religious argument can be summed up in a satisfactory manner by saying "I do not believe in evolution, I have faith that God created everything in it's present form." And that is okay. I respect your faith.

But insisting on s literal translation of the two different accounts of creation in Genesis, is just as wrong as the flat earth of four corners, the shape of the world as witnessed by T-O maps, the church's shabby treatment of Bruno and Galileo, and other "threats" to religion, however. The earth rotates around the sun, just as it always has. The truth was in fact no threat at all.

Back to antennas now.......

- Mike N3LI -

2239. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 14:46:07 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsa4nf$ec0s$2@tr22n12.aset.psu.edu>
Source record: 16363

Bruce W. Ellis wrote:
> Mike Coslo <mjc5@psu.edu> wrote:
>
>> Brian Oakley wrote:
>>
>>>>>> Just what makes you think its supposed to be ok?
>>>>
>>>> It wasn't exactly condemned now was it?
>>>>
>>>> - 73 de Mike N3LI -
>>> Uh, if you read closely, thats a narrative of what took place. Life
>>> happens, good and bad. This is what the Bible is about, the good, the
>>> bad, and the ugly. It has nothing to hide about people and they wrong
>>> they do. If God doesnt jump in and throw down a thunderbolt or two, you
>>> think that means He thinks its ok? Im sorry, but you really dont
>>> understand much about God or the Bible by showing that kind of
>>> thinking. Surely youre not that naive. I think youre just biased, which
>>> is ok, but at least admit it.
>>
>> We have a lot of things declared as abominations in the bible, we have a
>> lot of things on the OT that condemn people to death also. Considering
>> how some of these things are latched onto by those who would promote
>> themselves as the holy these days, I find it a little amusing. I also
>> see those folks more as Pharisees.
>>
>> If you want to know my bias, read the Sermon on the Mount. Most of the
>> rest is dross.
>>
>> - 73 de Mike N3LI -
>
> Just what we need on the ham antenna newsgroup - a rambling thread on
> the meaning of the bible.. Come on, there are better places for your
> pseudophilosophical ramblings.

What kind of mail reader do you use, I can look up how you can plonk me
and never hear from me again!

- 73 de Mike N3LI -

2240. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 15:45:01 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d6f21eb4-a5a2-4e2f-b79b-73ddc8305f41@o6g2000yql.googlegroups.com>
Source record: 16364

On Apr 16, 9:48 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > Both sides should be able to understand what the other is saying!
>
> Don't worry about it, Art. My dog doesn't understand
> it either.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I don't worry about it Cecil but I am concerned at the number of
people who consider themselves engineers. Remember that nobody on this
group has a true understanding of Maxwells equations! Nobody has
proved Maxwell's laws can be proved by adding a time varing field to
the Gaussian law of Statics. In fact, it is denied by ALL on this
group, Engineers?
That to even try is illegal as well as not being correct! Real
qualified engineers?
And you want this group to understand phase change and travelling
waves without the group coming to a consensus on Maxwell's laws?
Especially when they demand
a definition of equilibrium?
Maxwell;'s laws do not include lumped loads in his equations for
maximum radiation efficiency, so why do hams use lumped loads with
their antennas?
Maxwell;'s laws demand that for maximum efficiency equilibrium must be
kept, yet hams continue to place verticals at right angles to the
earth's surface. And it goes on and on. And engineers continue to
misuse what is known as Maxwell's equations.
However, despite that I do have a honest question Does the TOA of a
dish antenna (CP) change with height similar to other polarisations?
Regards
Art

2241. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 15:51:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Pz1Gl.19052$as4.15141@nlpi069.nbdc.sbc.com>
Source record: 16365

> Since a standing wave is an interference pattern created by traveling
> waves, having 'only standing waves' would obviously be an impossible
> circumstance.

By "only standing waves", I meant pure standing
waves and nothing else.

We've been through this one before. If the SWR
is 1:1, there is only a forward traveling wave.
If the SWR is not 1:1, there exists a forward
traveling wave and a reverse traveling wave.
If the SWR is infinite, the amplitudes of the
forward wave and reflected wave are equal and
a pure standing wave is the result.

"Only standing waves" doesn't mean the underlying
traveling waves don't exist. It simply means that
the amplitudes of the forward wave and reflected
wave are equal and therefore all of the energy
components in the traveling waves have combined
into the standing waves.

For instance, a lossless stub would contain "only"
standing waves, i.e. pure standing waves.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2242. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 16:06:01 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49e8a9f1$0$17186$6d4158fb@reader.xsnews.nl>
Source record: 16366

"Cecil Moore" <nospam@w5dxp.com> wrote
>
> Changing the phase of an AC voltage by 180 degrees
> changes the amplitude from positive to negative or
> from negative to positive. That's what is happening
> in the ASCII graphic that you drew.
> --
> 73, Cecil, IEEE

o.k. i was a bit to fast. But if we see the complete picture:
(hope it comes across in the original bits)

XM5;. .:;S9A#@@@@@@@@@@@@@@@@@@@@#AXi;,H.
:5A@@@ ;5A@
H@@@@
.;5H@@@5. ,5M@
current @@M5,
:9@@@@@i.
.rA@@#i
iGHXr HMBS,
;B@@h.
i@@S 2@@@s
,A@@s
H@#, :@@#,
;@@9
&@# 9@@2
.@@5
.@@ :@@@;
.@@
:@i 2@@X
B@.
.@, ,@@M.
2@
@; A@@:
H@
A@ i@@r
@s
@s r@@2
H@
2H#@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@##BG9@@@@AM@@@@@@
r@#
r@@.
s@@S

:@@@r

i@@#:

3@@@2, voltage

rH@@@9; .

;G@@@Ms.

,5@@@#S,

sM@@@@#AXs:.

.:sXM@@@@@#A5r,

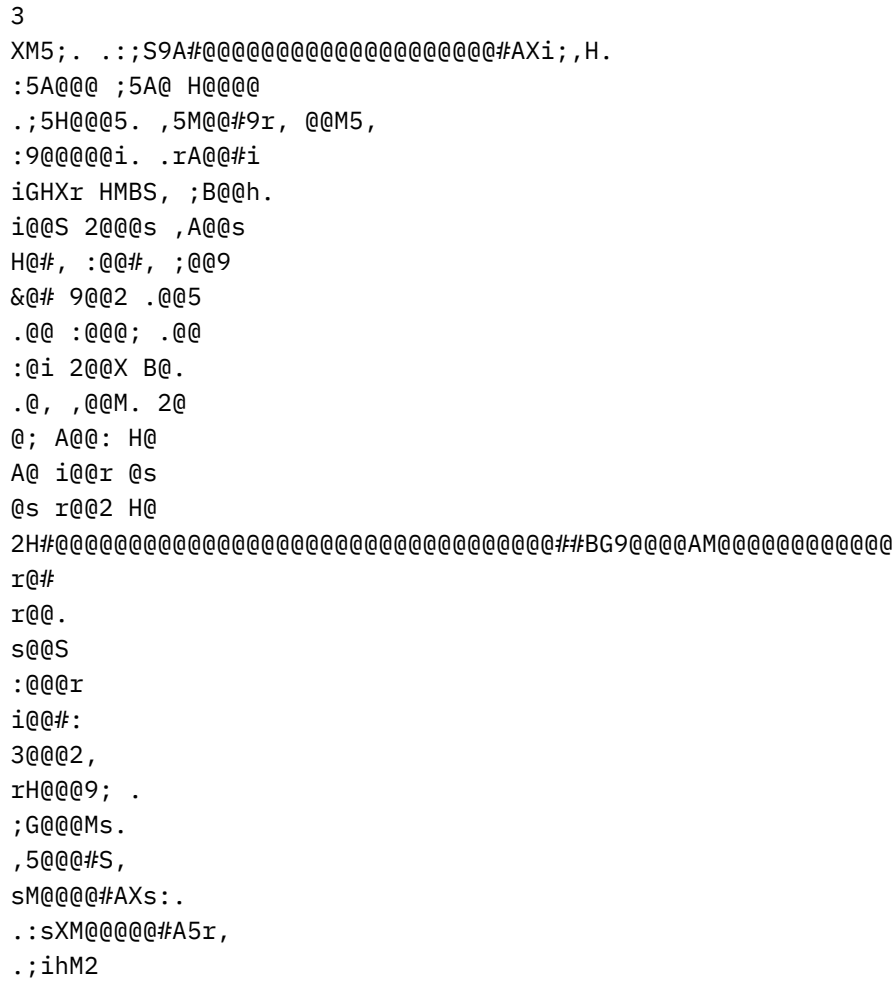
.;ihM2

We see here, as in all antennabooks, at the leftside the voltage and current are in phase, But in the right side the voltage and current are in antiphase, hence my conclusion that the antenna must be reactive ! From your explanation at 180 degrees, why doesn't current at the right side flip over then ? Should be.

2243. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 16:09:40 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49e8aa76$0$15134$6d4158fb@reader.xsnews.nl>
Source record: 16367

[Murphy at work ?] Here is another try of the basic grafic.



2244. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 17:33:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <r33Gl.12301$jZ1.419@flpi144.ffdc.sbc.com>
Source record: 16368

Calltrex wrote:
> We see here, as in all antennabooks, at the leftside the
> voltage and current are in phase,

Those plots are for a *standing-wave antenna*. What you
are missing is that there is no phase shown in those plots.
Pure standing wave voltage and and pure standing wave current
have a constant phase. What you have plotted is a snapshot in
time of voltage and current *amplitude envelopes* in which the
phase is irrelevant. Those plots are not time domain plots.
They are plots of the voltage *envelope* and current *envelope*.

> But in the right side the voltage and current are in
> antiphase, hence my conclusion that

180 degree "antiphase" is still purely resistive with zero
reactance. All that has happened to the voltage is that
the sign of the voltage has changed. It is a snapshot in
time. 1/2 cycle later that same plot would be upside down.

> the antenna must be reactive ! From your explanation at 180
> degrees, why doesn't
> current at the right side flip over then ? Should be.

When all the voltages and currents are either in phase or
180 degrees out of phase, the resulting impedance is purely
resistive. There is *no reactance* in an ideal resonant dipole!
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2245. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 17:36:07 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <a63Gl.12302$jZ1.95@flpi144.ffdc.sbc.com>
Source record: 16369

Roy Lewallen wrote:
> You *can* find the strength of the E field
> near various points along the antenna (and it looks pretty much like the
> graph), but that's not the same as a voltage.

The assumption is that the voltage is proportional to
the E-field even when the voltage is difficult to measure.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2246. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 18:18:34 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsah6q$9n4$1@news.service.uci.edu>
Source record: 16370

Cecil Moore wrote:
> Jim Kelley wrote:
>> Why not just measure the delay in the instantaneous arrival of energy?
>
> Why make something difficult out of a simple
> problem?

My question precisely.

> How can you tell one packet of energy
> from another?

It's easier than distinguishing one cyle of a sine wave from another.

> Please do the measurement if you
> choose and report back what you find.

Just send the coil you would like me to test. I'd be pleased to do it
for you and report back.

ac6xg

2247. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 18:32:22 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsai0m$a49$1@news.service.uci.edu>
Source record: 16371

Cecil Moore wrote:
>> Since a standing wave is an interference pattern created by traveling
>> waves, having 'only standing waves' would obviously be an impossible
>> circumstance.
>
> By "only standing waves", I meant pure standing
> waves and nothing else.

There is still no circumstance where you can have standing waves and
nothing else. It's a ridiculous thing to say.

> We've been through this one before. If the SWR
> is 1:1, there is only a forward traveling wave.
> If the SWR is not 1:1, there exists a forward
> traveling wave and a reverse traveling wave.
> If the SWR is infinite, the amplitudes of the
> forward wave and reflected wave are equal and
> a pure standing wave is the result.
>
> "Only standing waves" doesn't mean the underlying
> traveling waves don't exist. It simply means that
> the amplitudes of the forward wave and reflected
> wave are equal and therefore all of the energy
> components in the traveling waves have combined
> into the standing waves.
>
> For instance, a lossless stub would contain "only"
> standing waves, i.e. pure standing waves.

'Pure standing wave' is a more useful term. But there is no
circumstance under which there is "only" a standing wave.

Borrowing from your favorite pro forma rhetorical question: what part of
'interference pattern' don't you understand?

ac6xg

2248. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 18:37:43 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsaiam$a4i$1@news.service.uci.edu>
Source record: 16372

Cecil Moore wrote:
> Jim Kelley wrote:
>> Since a standing wave is an interference pattern created by traveling
>> waves, having 'only standing waves' would obviously be an impossible
>> circumstance.
>
> Time to hit the books, Jim. Standing waves are described
> in Born and Wolf, section 7.4, pages 297-281, 4th edition.
>
> "We see that at each instant in time the *phase is constant*
> through the first medium." The first medium is where the
> pure standing waves are. Born and Wolf agree that the phase
> of the standing wave doesn't change throughout the medium.
> Therefore, its phase cannot be used to measure delay.
>
> The same material is covered in "Optics", by Hecht, section
> 7.1.4, pages 288-293, 4th edition.
>
> "[Standing wave phase] "*doesn't rotate* at all, and the
> resultant wave it represents doesn't progress through space -
> its a standing wave."
>
> If you are incapable of understanding that material,
> I'm afraid I cannot help you.

I understand it well enough to note that it fails to make your point for you. However it does clearly make a point that has never been in contention. Bravo.

(Evidently you've forgotten that I was the person who introduced you to Born and Wolf in the first place.)

ac6xg

2249. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 19:04:09 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <mi4Gl.16497$D32.9760@flpi146.ffdc.sbc.com>
Source record: 16373

Jim Kelley wrote:
> Cecil Moore wrote:
>> How can you tell one packet of energy
>> from another?
>
> It's easier than distinguishing one cyle of a sine wave from another.

Certainly not true if one knows the device under test
is shorter than one wavelength. I have measured a lot
of voltage circuit delays. I have never measured an
energy delay, whatever that is.

> Just send the coil you would like me to test. I'd be pleased to do it
> for you and report back.

Pick any old air-core in the 50-100 uH range. 20 turns
of #16 wire on a 2L pop bottle should do the trick.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2250. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 19:25:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <uI4GI.27160$YU2.8480@nlpi066.nbdc.sbc.com>
Source record: 16374

Jim Kelley wrote:
> There is still no circumstance where you can have standing waves and
> nothing else. It's a ridiculous thing to say.

It was a colloquial choice of words which I previously
defined as meaning exactly the same thing as "pure
standing wave".

If I say, "There's nothing but bicycles on this
road today", would you say that's ridiculous because
there is also dirt on the road? (Yes, you would).

> 'Pure standing wave' is a more useful term.

If that will keep your panties from getting bunched
up, I am all for it.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2251. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 19:30:40 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsale1$b86$1@news.service.uci.edu>
Source record: 16376

Cecil Moore wrote:
> Jim Kelley wrote:
>> Since a standing wave is an interference pattern created by traveling
>> waves, having 'only standing waves' would obviously be an impossible
>> circumstance.
>
> Nonsense. All it takes is two identical waves traveling in
> opposite directions along the same path. Such happens at the
> open-circuit or short-circuit point in a 1/4WL stub.

Here we have an excellent illustration of the kink in your understanding of wave phenomena. Because just as interference does not cause waves to reflect, waves do not make other waves do things, or turn into something else. A standing wave interference pattern is a result of the presence of traveling waves. One does not replace the other.

>> I urge you to please investigate the mathematical issues associated
>> with summing counter-rotating vectors.
>
> I have, Jim. It is you who seems confused. If two coherent
> phasors of equal amplitudes and opposite rotations are
> phasor-added, the resulting total phase is a constant.
> 1 at zero deg + 1 at zero deg = 2 at zero deg
> 1 at 45 deg + 1 at -45 deg = 1.4.4 at zero deg
> etc.

I you were producing numbers which made sense and were correct, we wouldn't be having this discussion, Cecil. A wave is at various phases along it's length. The phase varies from 0 to 360 every complete cycle. This includes standing waves. Its phase is not "zero" at every point. It's ridiculous to have to point this out to a self proclaimed "expert" on any and every subject such as yourself.

>> Correct me if I'm wrong, but as far as I know you are the only one
>> suggesting that standing wave current phase - whatever that is - could
>> be delayed, measured, and calculated.
>
> Nonsense, Jim, standing wave current phase is what EZNEC
> reports for a standing-wave antenna.

In my experience, incorrect assumptions produce incorrect results. The EZNEC results you refer to are an archetypal example of the effect.

ac6xg

2252. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 19:35:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <eS4Gl.27161$YU2.15750@nlpi066.nbdc.sbc.com>
Source record: 16375

Jim Kelley wrote:
> I understand it well enough to note that it fails to make your point for
> you.

You obviously don't understand why a signal that doesn't
change phase cannot be used to measure a delay based
on phase shift either through a wire or a coil.

1. Every reference says a pure standing wave does not
change phase.

2. The current on a 75m mobile antenna is at least 90%
standing wave current.

3. Therefore: The phase of the current on a 75m mobile
antenna cannot be used to measure the delay through
the loading coil or even through the straight wire
parts of the antenna.

4. Yet, this is exactly the current that w7el and w8ji
used in their measurements which yielded "no detectable
phase shift" completely unrelated to delay.

Here's a question for you: What is the phase shift
in the current in 90 degrees of an ideal lossless
1/4WL stub? Until you can provide a valid direct
answer to that direct question, you will never
understand.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2253. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 19:43:12 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsam5hbeo1@news.service.uci.edu>
Source record: 16377

Cecil Moore wrote:

> If that will keep your panties from getting bunched
> up, I am all for it.

I'd really prefer that you refrained from commenting about my underwear
- or even thinking about them. :-)

ac6xg

2254. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 20:27:10 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsaonvcdl1@news.service.uci.edu>
Source record: 16378

Cecil Moore wrote:
> Jim Kelley wrote:
>> I understand it well enough to note that it fails to make your point
>> for you.
>
> You obviously don't understand why a signal that doesn't
> change phase cannot be used to measure a delay based
> on phase shift either through a wire or a coil.
>
> 1. Every reference says a pure standing wave does not
> change phase.

Certainly not as a function of time. Which means it's not an
alternating current, and which is why it not considered an actual wave.

> 2. The current on a 75m mobile antenna is at least 90%
> standing wave current.

And what's the other 10% supposed to be? Please explain how one would
go about getting "standing wave current" to flow through something -
anything - like a measuring instrument for example.

> 3. Therefore: The phase of the current on a 75m mobile
> antenna cannot be used to measure the delay through
> the loading coil or even through the straight wire
> parts of the antenna.

Have you tried pulsing a current through one? I can't imagine there
wouldn't be a delay in getting from one end to the other and back.

> 4. Yet, this is exactly the current that w7el and w8ji
> used in their measurements

No, it is not.

> Here's a question for you: What is the phase shift
> in the current in 90 degrees of an ideal lossless
> 1/4WL stub?

I'm reminded of the troll at the bridge.

To what phase shift do you refer? With respect to voltage, from one
point to another, out and back - you need to be considerably less
imprecise if you expect someone to bother to answer (to) you.

ac6xg

2255. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 20:35:21 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <bK5Gl.12312$jZ1.735@flpi144.ffdc.sbc.com>
Source record: 16379

Jim Kelley wrote:
> A standing wave interference pattern is a result of the presence
> of traveling waves. One does not replace the other.

Exactly what I have been saying for years against some
stiff opposition - welcome aboard.

You missed the point which is: If one parses all the energy
to the standing wave, it cannot separately be parsed to the
traveling waves. Doing so would violate the conservation
of energy principle.

> I you were producing numbers which made sense and were correct, we
> wouldn't be having this discussion, Cecil. A wave is at various phases
> along it's length. The phase varies from 0 to 360 every complete cycle.
> This includes standing waves. Its phase is not "zero" at every point.

You obviously don't understand. Whatever the actual phase
angle is, for a pure standing wave, at any instant of time,
it is constant all up and down the standing wave. NOBODY HAS
EVER SAID IT IS ZERO AT EVERY POINT!!! Such an allegation is
a ridiculous blowing of smoke.

> The
> EZNEC results you refer to are an archetypal example of the effect.

The EZNEC results are what they are and have been confirmed
by w7el himself. All I can say is: Please correct your mistaken
concepts and then rejoin the discussion. What is it about the
following EZNEC results that you don't understand? Do you need
help in comprehending that a 2.71 degree phase shift in 90 degrees
of antenna is a shortfall of 87.29 degrees?

EZNEC+ ver. 4.0
thin-wire 1/4WL vertical 4/17/2009 2:57:42 PM
--------------- CURRENT DATA ---------------
Frequency = 7.29 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97651 -0.42
3 .93005 -0.83
4 .86159 -1.19
5 .77258 -1.50
6 .66485 -1.78
7 .54059 -2.04

8 .40213 -2.28
9 .25161 -2.50
10 Open .08883 -2.71

If w7el "measures" the phase shift between segment 3
and segment 7, he will "measure" 1.21 degrees. The actual
delay between segment 3 and segment 7 is about 36 degrees.
When will anyone understand that fact of physics?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2256. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 21:08:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jd6Gl.5408$im1.2808@nlpi061.nbdc.sbc.com>
Source record: 16380

Jim Kelley wrote:
>> 2. The current on a 75m mobile antenna is at least 90%
>> standing wave current.
>
> And what's the other 10% supposed to be?

The other 10% is the traveling wave that gets radiated
of course (neglecting losses).

> Please explain how one would
> go about getting "standing wave current" to flow through something -
> anything - like a measuring instrument for example.

Opps, standing wave current doesn't flow so you must
have meant how does one eliminate reflections so that
nothing except traveling wave current is present.
Do you need that explained to you?

> Have you tried pulsing a current through one? I can't imagine there
> wouldn't be a delay in getting from one end to the other and back.

Exactly, but some would say that's digital, not RF,
or that is not steady-state conditions.

>> 4. Yet, this is exactly the current that w7el and w8ji
>> used in their measurements
>
> No, it is not.

Sorry, you are wrong about that. w7el described in detail
what he had measured and it was "total current" which was
about 90% standing wave current. Here's what he said:

"The result from the second test was a current difference
of 5.4%, again with no measurable phase shift." All using
the total antenna current which is about 90% standing
wave current. What he didn't realize is that a current
difference of 5.4% is a calculated phase shift of ~19
degrees, i.e. ARCCOS(1-.054) = ~19 degrees, to which
you have previously alluded.

>> Here's a question for you: What is the phase shift
>> in the current in 90 degrees of an ideal lossless
>> 1/4WL stub?
>
> I'm reminded of the troll at the bridge.

I'm reminded of people who refuse to answer simple questions.
One wonders why? The answer is zero degrees.

> To what phase shift do you refer? With respect to voltage, from one
> point to another, out and back - you need to be considerably less
> imprecise if you expect someone to bother to answer (to) you.

The context was specified as current. Here is an EZNEC simulation
which should help you.

http://www.w5dxp.com/stub_dip.EZ

Click on currents. You will see that the current phase
varies by ~2 degrees end to end in 90 degrees of stub
just as it does in a 1/4WL monopole over ground.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2257. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 21:48:32 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsatgi$e3c$1@news.service.uci.edu>
Source record: 16381

Cecil Moore wrote:
> The other 10% is the traveling wave that gets radiated
> of course (neglecting losses).

Absurd. Current does not "get radiated".

>> Please explain how one would go about getting "standing wave current"
>> to flow through something - anything - like a measuring instrument for
>> example.
>
> Opps, standing wave current doesn't flow so you must
> have meant how does one eliminate reflections so that
> nothing except traveling wave current is present.
> Do you need that explained to you?

You claim that W7EL measured the phase shift of standing wave current.
He of course made no such claim. So yes, I need you to explain how it
is possible for someone do measure a "current" that does not flow. This
should be good.

ac6xg

2258. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 22:20:59 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ch7Gl.24898$Ws1.1133@nlpi064.nbdc.sbc.com>
Source record: 16382

Jim Kelley wrote:
> Cecil Moore wrote:
>> The other 10% is the traveling wave that gets radiated
>> of course (neglecting losses).
>
> Absurd. Current does not "get radiated".

It's *energy* in the traveling wave that gets radiated.
Less energy indeed lowers the current amplitude.

The Method Of Moments used by NEC assumes the radiated
fields originate from the current in each segment of
the antenna. Current is certainly attenuated by radiation
as it is by dissipation in lossy transmission lines. In
fact, the same attenuation factor is applied to the current
equation as is applied to the voltage equation.

The difference in the forward current vs the reflected
current on the standing-wave antenna at the antenna feedpoint
is due to energy lost to radiation. Radiation from an antenna
indeed does lower the current on the antenna. The conservation
of energy principle strikes again.

You can prove it for yourself by modeling a terminated rhombic
using EZNEC. The current amplitude in the traveling wave
antenna slowly falls as the energy is radiated.

Or put in one amp of 70cm current at one end of 200 feet of
RG-58 and see how much current you get out at the other end.

You don't really think that lumped circuit model assumptions
apply to distributed networks, do you?

> You claim that W7EL measured the phase shift of standing wave current.
> He of course made no such claim. So yes, I need you to explain how it
> is possible for someone do measure a "current" that does not flow. This
> should be good.

My point exactly. w7el "measured" the phase shift in current
that doesn't flow. That was his entire problem. One cannot
measure phase shift in current that doesn't flow, yet that's
exactly what w7el and w8ji reported doing.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2259. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 23:05:07 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsb205$fl1$1@news.service.uci.edu>
Source record: 16383

Cecil Moore wrote:
> Jim Kelley wrote:
>> Cecil Moore wrote:
>>> The other 10% is the traveling wave that gets radiated
>>> of course (neglecting losses).
>>
>> Absurd. Current does not "get radiated".
>
> It's *energy* in the traveling wave that gets radiated.
> Less energy indeed lowers the current amplitude.

Agreed. But when discussing current, one should recognize that, with the exception of "non-flowing current" whatever that is, all currents produce a field. Field cancellation is what prevents the transfer of energy. Any of this sounding familiar to you? The standing wave pattern is useful for illustrating what the field interference pattern might look like.

> w7el "measured" the phase shift in current
> that doesn't flow.

:-) He's good, but he ain't that good. Besides, his meter is the same as yours in that it only responds to waves that travel and currents that flow. The difference I suspect, is in the desired outcome and the rhetoric.

I've said my piece.

73, ac6xg

2260. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-17 23:10:05 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <vMqdna1OHL7TkXTUnZ2dnUVZ_u-dnZ2d@posted.easystreetonline>
Source record: 16384

Jim Kelley wrote:
>
> You claim that W7EL measured the phase shift of standing wave current.
> He of course made no such claim. So yes, I need you to explain how it
> is possible for someone do measure a "current" that does not flow. This
> should be good.

I measured current (of which the definition is well understood except apparently by Cecil), and took a lot of care to do it right. Cecil doesn't like the result, so he's created an imaginary quantity he calls "standing wave current" as an attempt to invalidate the results and promote his imaginative theories. Since it's wholly his creation, its properties are free to be modified as the immediate argument requires.

As I, Jim, other posters, and all good texts have explained, a standing wave describes the amplitude envelope of a voltage or current, as a function of position, which results from interference between traveling waves. There's no such thing as "standing wave current". You'll find no references to this fictitious entity in any electromagnetics text.

Roy Lewallen, W7EL

2261. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 00:07:54 UTC
From: Dave <noone@nowhere.com>
Message-ID: <uR8Gl.1372$b11.550@nwrddc02.gnilink.net>
Source record: 16385

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:d6f21eb4-a5a2-4e2f-b79b-73ddc8305f41@o6g2000yql.googlegroups.com...
On Apr 16, 9:48 pm, Cecil Moore <nos...@w5dxp.com> wrote:

>I don't worry about it Cecil but I am concerned at the number of
>people who consider themselves engineers. Remember that nobody on this
>group has a true understanding of Maxwells equations! Nobody has
>proved Maxwell's laws can be proved by adding a time varing field to
>the Gaussian law of Statics. In fact, it is denied by ALL on this
>group, Engineers?

yes art, electrical engineers, like me, do understand maxwell's equations.
and any of them worth their salt will explain, like i have done many times,
that it is unecessary to add an explicit time variable to the equations
because they are valid at every instant of time... so you end up with
f(t)=f(t) which is redundant and doesn't help with the solution of the
fields and waves. you have admitted that you don't know fields and waves
and that you are not an ee, yet you continue to try to put down those who
show a true understanding of the equations and their underlying assumptions.
you further demonstrate this by talking about lumped impedances in reference
to maxwell's equations and antennas. maxwell's equations describe fields
and waves, not the conductors and elements that generate them. they
reference the currents and fields, not the wires, capacitors, and inductors.
you can derive the properties of inductors and capacitors from maxwell's
equations, but you have to look deep inside them and apply the basic laws
that make up maxwell's equation to describe the lumped elements.

you have yet to explain where equilibrium is required in maxwell's
equations. by definition they rely on non-equilibrium conditions to set up
waves. you can't have a wave while you are in equilibrium, something has to
be putting energy into the system and something has to be moving, that
sounds like non-equilibrium to me.

2262. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 00:13:03 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <iPmdnYhCuoSShnTUnZ2dnUVZ_h2dnZ2d@posted.easystreetonline>
Source record: 16386

Jim Kelley wrote:
> Cecil Moore wrote:
>
>> w7el "measured" the phase shift in current
>> that doesn't flow.
>
> :-) He's good, but he ain't that good. Besides, his meter is the same
> as yours in that it only responds to waves that travel and currents that
> flow. The difference I suspect, is in the desired outcome and the
> rhetoric.

Indeed.

I measured current, which as everyone with a Novice or higher grade license should know is the rate of flow of charge(*). The charge flows in one direction during each half cycle, and in the other during the other half cycle, resulting in current which is positive for half the cycle and negative for the other. This is known as "alternating current". In fact, my measurement system (ferrite core transformers) will only detect alternating current.

(*)We very commonly, although technically incorrectly, refer to "current flow" when we really mean "charge flow".

Roy Lewallen, W7EL

2263. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 00:28:41 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <b99Gl.12337$jZ1.6795@flpi144.ffdc.sbc.com>
Source record: 16387

Roy Lewallen wrote:
> I measured current (of which the definition is well understood except
> apparently by Cecil), and took a lot of care to do it right. Cecil
> doesn't like the result, so he's created an imaginary quantity he calls
> "standing wave current" as an attempt to invalidate the results and
> promote his imaginative theories. Since it's wholly his creation, its
> properties are free to be modified as the immediate argument requires.

Roy is mistaken: Here is what Balanis says in "Antennas":
"The sinusoidal *current* distribution of long open-ended
linear antennas is a *standing wave* ... The *current* and
voltage distributions on open-ended wire antennas are
similar to the *standing wave* patterns on open-ended
transmission lines."

Most good fields and waves textbooks provide the equation for
standing wave current although the equation for standing-wave
voltage is more popular. I certainly did NOT invent the concept.
Why do you think a standing-wave antenna would not contain
standing-wave current?

Roy, here is a public EZNEC support request for you from
a loyal EZNEC customer.

There are 10 segments in a 1/4WL monopole over average ground.
Here is what EZNEC predicts for the currents in each segment.

EZNEC+ ver. 4.0
1/4WL vertical monopole 4/17/2009 6:46:08 PM
--------------- CURRENT DATA ---------------
Frequency = 7.29 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97651 -0.42
3 .93005 -0.83
4 .86159 -1.19
5 .77258 -1.50
6 .66485 -1.78
7 .54059 -2.04
8 .40213 -2.28
9 .25161 -2.50
10 Open .08883 -2.71

There's about 9 degrees per segment so the number of degrees
between segment 3 and segment 7 is about 36 degrees. If you

put your current probes on segment 3 and segment 7, you will
measure a 1.21 degree phase shift in those 36 degrees of
antenna (just as you did in 36 degrees of loading coil). How
do you explain how to accurately measure the number of degrees
in a wire given EZNEC's numbers? Why do you think a coil is
any different from a straight wire?

> As I, Jim, other posters, and all good texts have explained, a standing
> wave describes the amplitude envelope of a voltage or current, as a
> function of position, which results from interference between traveling
> waves.

The total current is sometimes parsed into a standing wave plus
a traveling wave. In a standing-wave antenna like a 1/2WL dipole,
the standing wave current is about 90% of the total current while
the traveling wave current is about 10% of the total current.

Total wave = forward traveling wave + reflected traveling wave.

Total wave = standing wave + traveling radiated wave

> There's no such thing as "standing wave current". You'll find no
> references to this fictitious entity in any electromagnetics text.

Absolutely false. In "Fields and Waves in Modern Radio".
by Ramo and Whinnery, 2nd edition, page 42, it gives the equations
for standing wave voltage and standing wave current. The current
equation is: I = (e^jwt/Z0)[Vfor*e^-jbz - Vref*e^+jbz]
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2264. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 00:39:13 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <3j9Gl.12340$jZ1.6555@flpi144.ffdc.sbc.com>
Source record: 16388

Roy Lewallen wrote:
> I measured current, which as everyone with a Novice or higher grade
> license should know is the rate of flow of charge(*). The charge flows
> in one direction during each half cycle, and in the other during the
> other half cycle, resulting in current which is positive for half the
> cycle and negative for the other. This is known as "alternating
> current". In fact, my measurement system (ferrite core transformers)
> will only detect alternating current.

Roy, you once verified that the phase of the total current
on a 1/2WL dipole changes by less than 10 degrees over the
entire 180 degree length of antenna. How can you use a current
that changes phase by only 10 degrees in 180 degrees of antenna
to measure the delay along the wire? If you cannot do it along
a wire, what makes you think you can do it through a loading
coil.

For the readers who don't know, Roy absolutely refuses to answer
any of my questions like the above.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2265. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 00:49:06 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <6s9Gl.6416$im1.2218@nlpi061.nbdc.sbc.com>
Source record: 16389

Roy Lewallen wrote:
> I measured current (of which the definition is well understood except
> apparently by Cecil), and took a lot of care to do it right.

Here is a challenge for you, Roy. Set up a short resonant
1/2WL dipole. Install your current pickups 1/3 and 2/3 of
the way from the feedpoint. Obviously that will be 30 degrees
of antenna.

Measure the phase shift between those two points using
the same care as you used with the loading coil.

I'll bet you $100 that you will not measure a 30 degree
phase shift. EZNEC says it will be closer to 3 degrees.

What would be your conclusion if you indeed did measure
3 degrees as EZNEC predicts?

P.S. Would someone please forward this to Roy since he
has Plonked me and refused my emails?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2266. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 02:19:08 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <9322beb2-7e0c-4cda-9e6b-7fe384c09697@b16g2000yqb.googlegroups.com>
Source record: 16390

On Apr 17, 7:07 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:d6f21eb4-a5a2-4e2f-b79b-73ddc8305f41@o6g2000yql.googlegroups.com...
> On Apr 16, 9:48 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>
> >I don't worry about it Cecil but I am concerned at the number of
> >people who consider themselves engineers. Remember that nobody on this
> >group has a true understanding of Maxwells equations! Nobody has
> >proved Maxwell's laws can be proved by adding a time varing field to
> >the Gaussian law of Statics. In fact, it is denied by ALL on this
> >group, Engineers?
>
> yes art, electrical engineers, like me, do understand maxwell's equations.
> and any of them worth their salt will explain, like i have done many times,
> that it is unecessary to add an explicit time variable to the equations
> because they are valid at every instant of time... so you end up with
> f(t)=f(t) which is redundant and doesn't help with the solution of the
> fields and waves. you have admitted that you don't know fields and waves
> and that you are not an ee, yet you continue to try to put down those who
> show a true understanding of the equations and their underlying assumptions.
Hello David
I am comfortable that the addition of a time varying field to the laws
of statics is a proof of Maxwell. In fact there are many proofs of
Maxwsells equations if you read your field and waves books Chapter 2
if I recall as well as the appendix. Dr Davis also stated so and
nobody was able to prove him wrong either. So as I have always said I
am comfortable with the proof.

> you further demonstrate this by talking about lumped impedances in reference
> to maxwell's equations and antennas. maxwell's equations describe fields
> and waves, not the conductors and elements that generate them. they
> reference the currents and fields, not the wires, capacitors, and inductors.
> you can derive the properties of inductors and capacitors from maxwell's
> equations, but you have to look deep inside them and apply the basic laws
> that make up maxwell's equation to describe the lumped elements.

Well again I disagree with you. Maxwells laws as far as we are
concerned deals with radiation and maximum efficiency with the basic
of equilibrium. As Newton used the term it was a cosmic law as is all
his laws thus equilibrium or balance is based on the cosmic which
includes outside Earths sphere, a basic for every action and reaction
statement. When you introduce a lumped load into radiation without the
equal and opposite you have violated Maxwell and Newtons laws, very
simple. This is why Maxwell does not include a metric for lumped loads

when calculating maximum efficiency via the boundary method.
Now as far as waves are concerned science recognises that radiation
presents observations that suggest waves but none of these are proven
and I believe that particles dominate which if you go along with
statics laws is also another proof.

>
> you have yet to explain where equilibrium is required in maxwell's
> equations. by definition they rely on non-equilibrium conditions to set up
> waves. you can't have a wave while you are in equilibrium, something has to
> be putting energy into the system and something has to be moving, that
> sounds like non-equilibrium to me.

Not so, review the gyroscope action and the sedgewick vehicle all of
which rely on balanced circulating rotation within the cosmos.
But disregard all the things above that you cannot digest. Use a
computer program on antennas that has the option to change human input
so that the laws of Maxwell
are fiollowed implicity. You put in a vertical design and request
maximum gain using the parameters supplied by Maxwell which requires
cosmic balance or equilibrium.
Antenna computer programs will always put aside the planar design as
it lacks equilibrium and will replace it with a tipped vertical
antenna.
So David you have now put your feet into another puzzle by your falure
to digest science. Science and the patent office accept antenna
computer programs output
which is opposite to your thinking so now you are surrounded by a
morass because you denied the good Doctors knowledge of physics.
I accept that that you and others do not have a good understanding of
equilibrium which generates faults in all associated science problems
so our minds will never meet. If you delve into books on Maxwell you
will eventually fall upon the use of Gauss. Since there are so many
proofs available authors shun from showing the Gaussian connection
because of the different metrics involved not because it is not a
viable proof. You have a simple option to prove what is correct, use a
antenna program with an optimiser and determine what a vertical
antenna looks like when seeking maximum efficiency, believe me the
radiator will be tipped. So forget every thing else and show the World
why computer programs produce faulty results when using your logic.
With the use of my logic I have produced a antenna for top band that
is rotatable and directional so something I have done is correct and
computer programs based on Maxwell produce the same results. Go
figure.
Now with respect to a dish antenna with CP. Can the dish supply a
lower TOA than a planar design at the same height?
Regards
Art.
Ps Mechanical engineering requires adherence to equilibrium, it is not
just a electrical thing.I also know little regarding fields and waves
but I am profficient in the application

of fields operating at the speed of light and their impact on
particles for communication
and where impact requires mass.

2267. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 08:58:53 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49ea09d9$0$31964$6d4158fb@reader.xsnews.nl>
Source record: 16391

"Cecil Moore" <nospam@w5dxp.com> wrote the message

>> the antenna must be reactive ! From your explanation at 180
>> degrees, why doesn't
>> current at the right side flip over then ? Should be.
>
> When all the voltages and currents are either in phase or
> 180 degrees out of phase, the resulting impedance is purely
> resistive. There is *no reactance* in an ideal resonant dipole!
> --
> 73, Cecil, IEEE.

I agree that the antenna is a chain of different pure resistances. But that
doesn't explain the asymmetric 'snapshot' here.
At the left side we see '+' voltage and '+' current and
at the right side we see '-' voltage and '+' current ! Why should it be asymmetric?
When i put a car battery with the plus on a lamp i will see a minus current ??

2268. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 13:31:14 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <61ade8b7-9146-4604-9529-31bfcb751393@j18g2000yql.googlegroups.com>
Source record: 16392

On Apr 18, 3:58 am, "Calltrex" <c...@lltrex.com> wrote:
> "Cecil Moore" <nos...@w5dxp.com> wrote the message
>
> >>   the antenna must be reactive ! From your explanation at 180
> >> degrees, why doesn't
> >>   current at the right side flip over then ? Should be.
>
> > When all the voltages and currents are either in phase or
> > 180 degrees out of phase, the resulting impedance is purely
> > resistive. There is *no reactance* in an ideal resonant dipole!
> > --
> > 73, Cecil, IEEE.
>
> I agree that the antenna is a chain of different pure resistances. But that
> doesn't explain the asymmetric 'snapshot' here.
> At the left side we see '+' voltage and '+' current and
> at the right side we see '-' voltage and '+' current ! Why should it be asymmetric?
> When i put a car battery with the plus on a lamp i will see a minus current ??

Never the twain will meet !
What you are debating is the difference between resonance relative to
Earth and that relative to the Cosmos. Thus, according to Einstein, it
is a case of relativity or viewing point. Laws of Newton refer to
equilibrium where all forces are accounted for and balanced thus for
cosmic resonance the "period" or the full wavelength is the true
balance. Thus when dealing with science or the cosmos half a period or
a halfwave
the position is indeterminate. (Simple relativity my dear Watson!)
Art

2269. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 15:30:19 UTC
From: Dave <noone@nowhere.com>
Message-ID: <fmmGl.1464$b11.971@nwrddc02.gnilink.net>
Source record: 16393

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:9322beb2-7e0c-4cda-9e6b-7fe384c09697@b16g2000yqb.googlegroups.com...
On Apr 17, 7:07 pm, "Dave" <no...@nowhere.com> wrote:

>Well again I disagree with you. Maxwells laws as far as we are
>concerned deals with radiation and maximum efficiency with the basic
>of equilibrium.

Maxwell's equations say nothing of efficiency. Nor do they mention
equilibrium.

>Not so, review the gyroscope action and the sedgewick vehicle all of
>which rely on balanced circulating rotation within the cosmos.

you like your mechanics... best to stick with them, you don't understand
fields and waves at all.

>Science and the patent office accept antenna
>computer programs output

the patent office accepts designs for faster than light antennas also. that
doesn't prove that there is any science behind them at all.

>If you delve into books on Maxwell you
>will eventually fall upon the use of Gauss.

Gauss is basic to the Maxwell equations, as i pointed out by it being used
within the first few pages of Jackson.

>believe me the radiator will be tipped.

only as far as your brain has tipped.

>something I have done is correct and
>computer programs based on Maxwell produce the same results.

right, next you'll be rewriting the bible.

>Ps Mechanical engineering requires adherence to equilibrium

if a mechanical system is in equilibrium how much work does it do?

2270. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 15:31:41 UTC
From: Dave <noone@nowhere.com>
Message-ID: <xnmGl.1465$b11.354@nwrddc02.gnilink.net>
Source record: 16394

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:61ade8b7-9146-4604-9529-31bfcb751393@j18g2000yql.googlegroups.com...
>Never the twain will meet !

and never shall art understand or be able to explain them.

>What you are debating is the difference between resonance relative to
>Earth and that relative to the Cosmos.

time for your meditation art... ommmmmmmmmmmmmmmmmmmmmmm...

2271. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 15:40:47 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <3wmGl.779$N5.261@nwrddc01.gnilink.net>
Source record: 16395

"Calltrex" <c@lltrex.com> wrote in message
news:49ea09d9$0$31964$6d4158fb@reader.xsnews.nl...
>
> "Cecil Moore" <nospam@w5dxp.com> wrote the message
>
>>> the antenna must be reactive ! From your explanation at 180
>>> degrees, why doesn't
>>> current at the right side flip over then ? Should be.
>>
>> When all the voltages and currents are either in phase or
>> 180 degrees out of phase, the resulting impedance is purely
>> resistive. There is *no reactance* in an ideal resonant dipole!
>> --
>> 73, Cecil, IEEE.
>
> I agree that the antenna is a chain of different pure resistances. But
> that
> doesn't explain the asymmetric 'snapshot' here.
> At the left side we see '+' voltage and '+' current and
> at the right side we see '-' voltage and '+' current ! Why should it be
> asymmetric?
> When i put a car battery with the plus on a lamp i will see a minus
> current ??

Hi Calltrex

Now I see your situation. When you want to see the current meter read
plus instead of minus, reverse the leads on the current meter. Then, when
the voltmeter reads plus, the current meter will also read plus.

Jerry KD6JDJ

2272. Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 16:07:00 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <373e9a17-5b6a-4340-a6c6-ee5b6f87e31d@g19g2000yql.googlegroups.com>
Source record: 16396

Laws of science are predicated of our presence in the Universe such as
a single bubble in a bubble bath where pressure contained in a bubble
is different to that of other bubbles. Thus pressure in a single
bubble is analogous to a small part which constitutes the law of
partial pressure.Thus when we on Earth view a half wave as resonant we
have moved away from the concept of the Universe upon which boundary
laws are founded.The concept of a half wave being resonant
is really an approximation of equality in volved in the boundary
aproach similar to the conversion of a three dimensional picture to
that of a two dimension. We see this in a pendulum clock where
friction is used as an equivalent of that which is lost in the change
which is also relative to momentum. We can look at a pendulum clock
and see that this results of showing the effects of equality where
momentum has been manipulated. If a half wave was truly a resonant
point which signifies the completion of one repeatable action we would
expect that the pendulum only swings from top to bottom and back again
by discarding momentum. If the bob of a pendulum is made of a long
length with allowance for movement in three dimensional form we have a
paradox where because of three dimensional movement the pendulum
changes to a circular movement which does not has a repartation of
sequences which signifies accountability because of the Corriolis
effect which is a phenomina of Earth and not the Cosmos. i.e. similar
to the analogy
of partial pressures. Thus, when following the laws of Newton which
follows the nature of the Cosmos, we must take into account the laws
of relativity which is a recognition of change depending on what part
of the Universe that you are viewing things from. This is a
diffinitive metric and not an average metric as viewed by Newton.
Since we are following the laws of the Cosmos(Newton) the metric of
balance must also be that of the Cosmos where true resonance becomes
equal to a period where all forces are accounted for and not that of
half a period.
David, science is a part of nature as is electrical and mechanical and
chemical understanding and not a compentalization of unconnected
sciences. It is for this reason that shows the lack of understanding
of Newtons laws which has mislead the World into using a half period
as a resonant point in communication.
Best regards
Art Unwin

2273. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 16:28:02 UTC
From: Dave <noone@nowhere.com>
Message-ID: <mcnGl.1471$b11.1176@nwrddc02.gnilink.net>
Source record: 16397

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:373e9a17-5b6a-4340-a6c6-ee5b6f87e31d@g19g2000yql.googlegroups.com...
> Laws of science are predicated of our presence in the Universe such as
> a single bubble in a bubble bath where pressure contained in a bubble
> is different to that of other bubbles.

keep blowing bubbles art, maybe you will be better at that than trying to
describe fields and waves.

<rest of arts babbling snipped>

2274. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 17:44:31 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3978d815-b3b5-45bc-933a-326bbebf63f3@h28g2000yqd.googlegroups.com>
Source record: 16398

On Apr 18, 11:28 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:373e9a17-5b6a-4340-a6c6-ee5b6f87e31d@g19g2000yql.googlegroups.com...
>
> > > Laws of science are predicated of our presence in the Universe such as
> > > a single bubble in a bubble bath where pressure contained in a bubble
> > > is different to that of other bubbles.
>
> keep blowing bubbles art, maybe you will be better at that than trying to
> describe fields and waves.
>
> <rest of arts babbling snipped>

David
Physics is physics, otherwise known as Classical physics
Newton viewed the Cosmos from the outside in, and Einstein
viewed the Cosmos from the inside out. Einstein took this approach
to science because of his inability to locate the "weak force". But
the object of his examination was the same as Newtons, the Cosmos as a
whole. Gauss's approach to statics is the same as Newton, Maxwell and
others. He used the boundary method except using only two dimensions
and not three which requires the dimension of time.
Use of the three dimensions was to check the work of other
scientists that he used in his equations where some of the equations
were two dimensional and required the
other dimension addition of time for equilibrium per Newton's
requirements.
Since you have placed "electricity" in a separate compartment from
that of science you can never fully understand the laws of science so
I will leave the subject in a static position with respect to this
group. I will however leave you with some thoughts to ponder.
Vibration is resonance in terms of our Earth since it does not account
for all forces involved in the Universe which requires balance or
equilibrium.
In other words a sine curve is a graphic(scope) that shows the metric
of the Universe, after all the measuring instrument uses particles
from beyond Earth for its means of measurement ! For this reason it is
able to measure the equivalent on Earth which is termed "vibration"
because each "period" is not repeatable i.e. lack of accountability
of all forces viz a vi displacement current which represents the weak
force.
Best regards
Art

Best regards
Art Unwin....xg (uk)

2275. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 18:41:13 UTC
From: Dave <noone@nowhere.com>
Message-ID: <d9pGl.1491$b11.71@nwrddc02.gnilink.net>
Source record: 16399

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:3978d815-b3b5-45bc-933a-326bbebf63f3@h28g2000yqd.googlegroups.com...
>Physics is physics, otherwise known as Classical physics

only in your mind.

>He used the boundary method except using only two dimensions
>and not three which requires the dimension of time.

best re-read it again, and again... Gauss' law is in 3d, it has to be in 3d
because the electric field from a charge is not confined to a plane... never
was and never will be. unlike your thinking art.

>Vibration is resonance in terms of our Earth since it does not account
>for all forces involved in the Universe which requires balance or
>equilibrium.

the 'universe' makes no requirements, it is the laws of physics that control
the universe. nothing in the universe is anywhere near in equilibrium or we
would all be cold dark cinders.

2276. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 19:34:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <f1qGl.14974$pr6.8894@flpi149.ffdc.sbc.com>
Source record: 16400

Calltrex wrote:
>
> "Cecil Moore" <nospam@w5dxp.com> wrote the message
>> There is *no reactance* in an ideal resonant dipole!
>
> I agree that the antenna is a chain of different pure resistances. But that
> doesn't explain the asymmetric 'snapshot' here.

My grandsons must have interrupted and distracted me on
that earlier posting. I should have said there is no
extra reactance associated with different signs on
the voltage and current than there is when they have
the same sign. Any reactance on the left side has its
mirror image on the right side.

> At the left side we see '+' voltage and '+' current and
> at the right side we see '-' voltage and '+' current ! Why should it be
> asymmetric?

It is asymmetric because the voltage envelope and current
envelope are spatially displaced by 90 degrees. If you
plot the voltage and current envelopes for 3 wavelengths
you will get the following - pardon the ASCII. One is the
sinusoidal voltage envelope and the other is the sinusoidal
current envelope.

```
/ \ / \ / \ /
/ \ / \ / \ /
-----------------------------------------------------
\ / \ / \ /
\ / \ / \ /

/ \ / \ / \ /
/ \ / \ / \ /
-----------------------------------------------------
/ \ / \ / \ /
\ / \ / \ /
```

Sometimes voltage and current have the same signs and sometimes
they have opposite signs. Remember, this is a snapshot in
time. 1/2 cycle later the envelopes will be upside down.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2277. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 19:42:26 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6b21d703-fe8a-4aad-af54-57e704fcf925@h2g2000yqg.googlegroups.com>
Source record: 16301

On Apr 18, 1:41 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:3978d815-b3b5-45bc-933a-326bbebf63f3@h28g2000yqd.googlegroups.com...
>
> >Physics is physics, otherwise known as Classical physics
>
> only in your mind.
>
> >He used the boundary method except using only two dimensions
> >and not three which requires the dimension of time.
>
> best re-read it again, and again... Gauss' law is in 3d, it has to be in 3d
> because the electric field from a charge is not confined to a plane... never
> was and never will be. unlike your thinking art.
>
> >Vibration is resonance in terms of our Earth since it does not account
> >for all forces involved in the Universe which requires balance or
> >equilibrium.
>
> the 'universe' makes no requirements, it is the laws of physics that control
> the universe. nothing in the universe is anywhere near in equilibrium or we
> would all be cold dark cinders.

Only because we , humans,do not know the extent of the boundaries of
the Cosmos as a whole
You cannot deal with true equilibrium while neglecting the outer space
beyond our Universe. Study the law of partial pressures to get a
deeper understanding.
We can only deal in the Universe we know which is only one bubble or
boundary of many that constitutes the Cosmos. But let it drop David.
Yes, I have an antenna that I lifted into the rotator on my tower with
my bare hands for top band and other bands including AM! I built it
and many others on the theories and principles that I have enunciated.
Maybe my theory is incorrect and the antenna, which is a fact,sorry
about that, can be attributed to a different theory. I will continue
to look for a alternative that also is agreed upon by present antenna
computer programs which I assume to be correct as they are based on
the presence of equilibrium] with accountability for all forces,
because they duplicate the results and configuration of my rotatable
antenna. In the mean time study the thread regarding helix antennas on
QRZ antenna construction which now has over 4k hits without similar
comments such as yours.
Regards and best 73s

Art

2278. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 19:48:55 UTC
From: Dave <noone@nowhere.com>
Message-ID: <H8qGl.1502$b11.422@nwrddc02.gnilink.net>
Source record: 16302

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:6b21d703-fe8a-4aad-af54-57e704fcf925@h2g2000yqg.googlegroups.com...
On Apr 18, 1:41 pm, "Dave" <no...@nowhere.com> wrote:
>In the mean time study the thread regarding helix antennas on
>QRZ antenna construction which now has over 4k hits without similar
>comments such as yours.

thats obviously because its not an open forum, only people who think like
you go there, so you have a captive audience.

2279. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 19:51:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <pbqGl.24237$c45.5975@nlpi065.nbdc.sbc.com>
Source record: 16303

Roy Lewallen wrote:
> I measured current (of which the definition is well understood except
> apparently by Cecil), and took a lot of care to do it right.

Roy, I am not questioning the accuracy of your
measurements - I'm sure they are extremely
accurate.

What I am questioning are your concepts and
conclusions about those measurements.

As illustrated in Kraus' antenna book, the end-
to-end current phase changes by about 3 degrees
for a 1/2WL dipole or a 1/4WL monopole. My question
for you is:

How can a current that changes phase by 3 degrees
in 90 degrees of antenna possibly be used to
determine the delay through the antenna wire?
- or through a loading coil?

Hint: The current in a standing wave antenna is of
the form:

I(x,t) = C1*cos(bx)*cos(wt) + C2*cos(wt+bx)

where C1 >> C2

i.e. the phase changes primarily with t but primarily
not with x. For any time t, the measured phase up and
down the antenna changes very little.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2280. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 20:01:03 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7ad5cdf8-ba9e-4a82-9f4a-0eb20437f11e@u8g2000yqn.googlegroups.com>
Source record: 16304

On Apr 18, 10:30 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:9322beb2-7e0c-4cda-9e6b-7fe384c09697@b16g2000yqb.googlegroups.com...
> On Apr 17, 7:07 pm, "Dave" <no...@nowhere.com> wrote:
>
> >Well again I disagree with you. Maxwells laws as far as we are
> >concerned deals with radiation and maximum efficiency with the basic
> >of equilibrium.
>
> Maxwell's equations say nothing of efficiency. Nor do they mention
> equilibrium.
>
> >Not so, review the gyroscope action and the sedgewick vehicle all of
> >which rely on balanced circulating rotation within the cosmos.
>
> you like your mechanics... best to stick with them, you don't understand
> fields and waves at all.
>
> >Science and the patent office accept antenna
> >computer programs output
>
> the patent office accepts designs for faster than light antennas also. that
> doesn't prove that there is any science behind them at all.
>
> >If you delve into books on Maxwell you
> >will eventually fall upon the use of Gauss.
>
> Gauss is basic to the Maxwell equations, as i pointed out by it being used
> within the first few pages of Jackson.

I suppose that Gauss has a law that is basic to Maxwells laws but
certainly not his law of statics. That particular law is two dimension
which does not include time.
Another scientist supplied to him a similar law that was also two
dimensional and it was that law provided the clue which required
clarification such that the two dimensional findings had to be added
to to match the metrics of equilibrium as required by Newton. If
Newton had not required uniformity of metrics it is quite possible his
laws would not have been corrected until the discovery by Foucault
which Maxwell had deduced or predicted as being present before
Foucault was born.
That force was determined as being the weak force by me which is
required for the grand unification theory (GUT) which unites all the

sciences of nature which includes the electricity matter which you
have boxed as being isolated from classical physics as we know it.
Frankly David, you have over estimated your value as a engineer by
your neglect of physics
Regards
Art

>
> >believe me the radiator will be tipped.
>
> only as far as your brain has tipped.
>
> >something I have done is correct and
> >computer programs based on Maxwell produce the same results.
>
> right, next you'll be rewriting the bible.
>
> >Ps Mechanical engineering requires adherence to equilibrium
>
> if a mechanical system is in equilibrium how much work does it do?

2281. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 22:17:29 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <iqsGl.14986$pr6.9476@flpi149.ffdc.sbc.com>
Source record: 16305

Jim Kelley wrote:
> Cecil Moore wrote:
>> It's *energy* in the traveling wave that gets radiated.
>> Less energy indeed lowers the current amplitude.
>
> Agreed.

Note that we agree on almost everything.

>> w7el "measured" the phase shift in current
>> that doesn't flow.
>
> :-) He's good, but he ain't that good. Besides, his meter is the same
> as yours in that it only responds to waves that travel and currents that
> flow. ... I've said my piece.

Exactly, the more you post, the more obvious agreements
we have. The following current is the one that dominates
a standing-wave antenna.

I(x,t) = Imax*cos(kx)*cos(wt)

Such a current cannot be used to calculate delay from
phase shift in a wire or in a coil. Yet, that is exactly
what w7el and w8ji did.

Are you leaving the thread because you are on the verge
of proving w7el wrong?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2282. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 22:32:52 UTC
From: Dave <noone@nowhere.com>
Message-ID: <oysGl.1542$b11.125@nwrddc02.gnilink.net>
Source record: 16306

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:7ad5cdf8-ba9e-4a82-9f4a-0eb20437f11e@u8g2000yqn.googlegroups.com...
On Apr 18, 10:30 am, "Dave" <no...@nowhere.com> wrote:
>I suppose that Gauss has a law that is basic to Maxwells laws but
>certainly not his law of statics. That particular law is two dimension
>which does not include time.

THE Gauss's law is one of the 4 basic maxwell's equations, and it definately
is 3d.

2283. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-18 23:24:32 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b36c1bd2-473a-4d64-a2ff-56fb31461d2e@f19g2000yqo.googlegroups.com>
Source record: 16307

On Apr 18, 5:32 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:7ad5cdf8-ba9e-4a82-9f4a-0eb20437f11e@u8g2000yqn.googlegroups.com...
> On Apr 18, 10:30 am, "Dave" <no...@nowhere.com> wrote:
>
> >I suppose that Gauss has a law that is basic to Maxwells laws but
> >certainly not his law of statics. That particular law is two dimension
> >which does not include time.
>
> THE Gauss's law is one of the 4 basic maxwell's equations, and it definately
> is 3d.

Great,
So now you know that Maxwell did not use the law of statics and thus
was unaware of the implied connection of the presence of particles
instead of waves.Perhaps now we can leave the subject to rest
Art

2284. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 02:24:40 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49ea8ba8$0$92352$8046368a@newsreader.iphouse.net>
Source record: 16308

Art Unwin wrote:
> On Apr 18, 5:32 pm, "Dave" <no...@nowhere.com> wrote:
>> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>>
>> news:7ad5cdf8-ba9e-4a82-9f4a-0eb20437f11e@u8g2000yqn.googlegroups.com...
>> On Apr 18, 10:30 am, "Dave" <no...@nowhere.com> wrote:
>>
>>> I suppose that Gauss has a law that is basic to Maxwells laws but
>>> certainly not his law of statics. That particular law is two dimension
>>> which does not include time.
>> THE Gauss's law is one of the 4 basic maxwell's equations, and it definately
>> is 3d.
>
> Great,
> So now you know that Maxwell did not use the law of statics and thus
> was unaware of the implied connection of the presence of particles
> instead of waves.Perhaps now we can leave the subject to rest
> Art

Well Dave, I guess he told you!

This has been hilarious, and you have showed exceptional control.

tom
K0TAR

2285. Re: Corner reflector antenna source

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 03:02:24 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <fh4lu4d28t13vq8sk5sablsuiekd3ckrb6@4ax.com>
Source record: 16309

On Mon, 13 Apr 2009 00:23:53 GMT, Tom Horne <hornetd@verizon.net>
wrote:

>Would anyone now of a source for corner reflector antennas for two
>meters other than home brew? Since Arrow antennas discontinued it's
>line of corner reflector antennas I know of no source for ready made ones.

Comprod:
<http://www.comprodcom.com/en/antennas/base/pdf/470-70.pdf>
<http://www.comprodcom.com/en/antennas/base/pdf/471-70.pdf>

Sinclair: SRL-227, SV227, SV228, and SRL-228
<http://www.sinclairtechnologies.com/catalog/product.aspx?id=1403>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2286. Different R3 designs?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 03:58:09 UTC
From: Lawrence Snyder <Lawrence.Snyder.4305a48@radiobanter.com>
Message-ID: <Lawrence.Snyder.4305a48@radiobanter.com>
Source record: 16311

Every R3 manual I've seen shows the bottom section ending near the lower
end of the remote tuning box. Mine is about 12 feet longer. Laird has
no clue. Anyone have an idea
what I'm dealing with?
tnx,
-ls- WA8RRK

--
Lawrence Snyder

2287. Hardware suggestions for mounting several antennas?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 03:59:31 UTC
From: Heath Roberts <htroberts@gmail.com>
Message-ID: <53288989-f2d3-40fb-983e-cc18573ddf00@y7g2000yqa.googlegroups.com>
Source record: 16310

I'd like to mount several antennas at more-or-less the same spot:

- wideband receiver (thinking of a Diamond D130NJ)
- broadcast FM receiver
- directional TV receiver (Channelmaster 4228)
- aviation band
- 450MHz commercial band
- 2m/70cm transmit/receive (Diamond X50NA)
- WiFi
- satellite radio receiver

I know putting them close to one another isn't ideal and may cause interference, but I'd like to start there and see whether it's a problem. None of the transmitters will be high power.

I plan to put them on the gable end of a wall, with mast(s) that go above the roofline. The mast(s) need to end up about 18" away from the wall to clear the roof overhang, and I'd like to make as few wall penetrations as possible.

My ideas include:

- mounting a couple of pieces of uni-strut horizontally and using regular stand-off mast brackets
- using a short piece of tower, attached to the wall, and some sort of brackets to hold antennas off of that.

Any other suggestions that are maybe obvious to people with more experience installing base station-type antennas?

Thanks,
Heath

2288. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 11:03:58 UTC
From: Dave <noone@nowhere.com>
Message-ID: <yyDGl.1591$b11.726@nwrddc02.gnilink.net>
Source record: 16312

"Tom Ring" <news0004@taring.org> wrote in message
news:49ea8ba8$0$92352$8046368a@newsreader.iphouse.net...

> Well Dave, I guess he told you!
>
> This has been hilarious, and you have showed exceptional control.

i do it just for the humor value, but he is so predictable by now that its starting to get boring. i think he has run out of laws to break and formulas to rewrite... once he moved on to the cosmic stuff you could tell he had run out of new material. thats probably why he went to the more confined space of the qrz or qth, or whatever that other restricted chat site was, so he could get a less contentious audience.

2289. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 11:06:11 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <6810f54a-1341-44b0-8f69-e5014eab3a4f@c9g2000yqm.googlegroups.com>
Source record: 16313

On Apr 10, 2:14 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> The coax ground and the reflector is grounded at the same place
> at the top of the tower. All horizontal coax is buried.

An r-f ground does not exist at the top of your tower,
or any tower.

Unless some means is provided to prevent r-f current flow
on the outside of the coax and on the tower structure,
they will radiate/receive r-f energy.

This probably accounts for most of the pattern effects
that you didn't expect to have (regardless of the real
pattern that your cone and helix generates).

RF

2290. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 13:09:13 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <XnFGI.29403$ZP4.5700@nlpi067.nbdc.sbc.com>
Source record: 16314

Richard Fry wrote:
> Unless some means is provided to prevent r-f current flow
> on the outside of the coax and on the tower structure,
> they will radiate/receive r-f energy.

Thus making the vertical antenna longer than 5/8WL.
Using the top of the tower for a ground simply
makes the tower part of the antenna system turning
the entire array into an off-center-fed vertical
dipole with the bottom end grounded. For instance,
a 1/4WL 20m monopole mounted on top of a 60 foot
tower using the tower as the coax shield ground
has a take-off-angle of 57 degrees. The highest
RF current is near the middle of the tower. :-(

To make matters even worse: I had a similar problem
with drooping 1/4WL radials DC insulated from the tower.
The drooping radials coupled RF into the tower and
turned it into a radiator which screwed, oops, I
mean skewed the radiation pattern upwards. It took
me a long time to figure out why my horizontal dipole
was magnitudes better than my 1/4WL vertical on top of
the 1.25WL tall tower which was grounded at the bottom
and floating at the top.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2291. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 13:37:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <OOFGl.29405$ZP4.4425@nlpi067.nbdc.sbc.com>
Source record: 16315

Roy Lewallen wrote:
> I measured current, which as everyone with a Novice or higher grade
> license should know is the rate of flow of charge(*). The charge flows
> in one direction during each half cycle, and in the other during the
> other half cycle, resulting in current which is positive for half the
> cycle and negative for the other. This is known as "alternating
> current". In fact, my measurement system (ferrite core transformers)
> will only detect alternating current.

Looking at only one current sample point, one cannot tell
the difference between standing waves and traveling waves.
However, there is a large difference between standing waves
and traveling waves.

If you measure the same current phase at two sample points
that are physically 30 degrees apart, you are dealing with
standing waves.

The equation for a standing wave is of the form:

I = Imax*cos(bz)*cos(wt)

This current is the primary effect on a standing wave
antenna and cannot be used to measure the delay between
points in an antenna because this current does not change
phase relative to length 'z'.

If you measure a 30 degree phase shift in the current
between two sample points that are 30 degrees apart,
you are dealing with traveling waves.

The equation for a traveling wave is of the form:

I = Imax*cos(wt-bz)

This current is a secondary effect on a standing wave
antenna. This is the current that changes phase with
physical length 'z' but is swamped out by the standing
wave.

Roy, you listed three possibilities for people who
read your postings.

1. Those who agree with you and are therefore right.

2. Those who disagree with you and later change their
minds to being right.

3. Those who forever disagree with you and are therefore
forever wrong.

Please consider the 4th possibility.

4. Roy Lewallen is not omniscient and could possibly
be wrong.

Again, would someone please forward this to Roy since
he has plonked me?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2292. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 13:49:19 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6f538a80-6294-498c-980a-12e54c502d9c@f19g2000yqo.googlegroups.com>
Source record: 16316

On Apr 19, 8:09 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Richard Fry wrote:
> > Unless some means is provided to prevent r-f current flow
> > on the outside of the coax and on the tower structure,
> > they will radiate/receive r-f energy.
>
> Thus making the vertical antenna longer than 5/8WL.
> Using the top of the tower for a ground simply
> makes the tower part of the antenna system turning
> the entire array into an off-center-fed vertical
> dipole with the bottom end grounded. For instance,
> a 1/4WL 20m monopole mounted on top of a 60 foot
> tower using the tower as the coax shield ground
> has a take-off-angle of 57 degrees. The highest
> RF current is near the middle of the tower. :-(
>
> To make matters even worse: I had a similar problem
> with drooping 1/4WL radials DC insulated from the tower.
> The drooping radials coupled RF into the tower and
> turned it into a radiator which screwed, oops, I
> mean skewed the radiation pattern upwards. It took
> me a long time to figure out why my horizontal dipole
> was magnitudes better than my 1/4WL vertical on top of
> the 1.25WL tall tower which was grounded at the bottom
> and floating at the top.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Thank you all for those points raised. I added the ground to the dish
because I was getting a lot of static one night, I have not had any
since but
I need time to compare. The grounding line is a heavy silver coated
braid connected
to each section and to ground. My coax drops to ground and then goes
underground
for a 100 feet or so and grounded again when it resurfaces.
Regards
Art

2293. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 14:13:22 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <4kGGl.27481$YU2.288@nlpi066.nbdc.sbc.com>
Source record: 16317

Art Unwin wrote:
> Thank you all for those points raised.

Moral is: There's no such thing as earth "ground"
at 50 feet in the air. There are only ground planes,
counterpoises, and other conductors that become part
of the antenna system. Even the ground wire on an
artificial ground device radiates.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2294. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 14:56:09 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <564e6f08-5512-4c6c-a9f8-345bb8dcbfce@y9g2000yqg.googlegroups.com>
Source record: 16318

On Apr 19, 9:13 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > Thank you all for those points raised.
>
> Moral is: There's no such thing as earth "ground"
> at 50 feet in the air. There are only ground planes,
> counterpoises, and other conductors that become part
> of the antenna system. Even the ground wire on an
> artificial ground device radiates.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

What if one put a diode in that ground line?

2295. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 15:09:19 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <a52a7a37-964b-4ea8-8a42-70b2e4db6321@v19g2000yqn.googlegroups.com>
Source record: 16319

On Apr 19, 8:09 am, Cecil Moore <nos...@w5dxp.com> wrote:
> To make matters even worse: I had a similar problem
> with drooping 1/4WL radials DC insulated from the tower.
> The drooping radials coupled RF into the tower and
> turned it into a radiator which screwed, oops, I
> mean skewed the radiation pattern upwards.

Some designs use drooping radials to reduce the vertical angle of the peak radiation launched by the monopole section.

But that is a conclusion made for an infinite distance, with consideration of the propagation environment on the intrinsic pattern launched by the monopole, and the height of the monopole + its elevated radials above the earth.

The link below leads to paste-up of NEC screens showing the performance of a monopole driven against four 1/4-wave, essentially horizontal radials. The entire system is isolated from earth ground.

The driving impedance, the elevation pattern shape, and the peak gain are close to "textbook" values for a 1/4-wave monopole driven against a perfect ground plane.

A form of this design is being used with good success in the AM broadcast industry -- where using a conventional, buried-radial ground system is impractical due to rocky terrain.

The groundwave performance of these systems shows that their intrinsic gain is maximum in the horizontal plane, and very close to the theoretical value of 5.15 dBi.

http://i62.photobucket.com/albums/h85/rfry-100/MonopoleWithElevatedRadials_1.jpg

RF

2296. Re: Hardware suggestions for mounting several antennas?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 16:08:18 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <gsfi9o$g87$1@news.netins.net>
Source record: 16320

Pretty much what I did was use a 48" piece of Flex-Angle as the horizontal piece. On one end of the flex I mounted an Arrow 2m/70cm J-pole antenna and on the opposite end of the flex I mounted the Arrow 6M ground plane. I then mounted the flex-angle perpendicular to the mast with 2 U-bolts. Several diffent antennas could be mounted on the mast at different levels. I used the MFJ antenna analyzer on each antenna and they check great and also work great. I used the Arrow antennas because if there is such a thing as a bullet proof antenna Arrow builds them. Rollie KD0-FGX

2297. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 16:47:01 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <KsIGl.2790$fD.2249@flpi145.ffdc.sbc.com>
Source record: 16321

Art Unwin wrote:
> What if one put a diode in that ground line?

Then it would no longer be linear to RF. Seems
to me, it would generate some industrial grade
harmonics.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2298. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 16:47:38 UTC
From: Dave <noone@nowhere.com>
Message-ID: <KAIGl.977$N5.497@nwrddc01.gnilink.net>
Source record: 16322

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:564e6f08-5512-4c6c-a9f8-345bb8dcbfce@y9g2000yqg.googlegroups.com...

>What if one put a diode in that ground line?

you thought you had noise before?? try putting in the diode and see what you
get!

2299. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 17:01:29 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6f724165-bbb5-4991-a34a-f80aeeaf4829@y7g2000yqa.googlegroups.com>
Source record: 16323

On Apr 19, 10:09 am, Richard Fry <r...@adams.net> wrote:
> On Apr 19, 8:09 am, Cecil Moore <nos...@w5dxp.com> wrote:> To make matters even worse: I had a similar problem
> > with drooping 1/4WL radials DC insulated from the tower.
> > The drooping radials coupled RF into the tower and
> > turned it into a radiator which screwed, oops, I
> > mean skewed the radiation pattern upwards.
>
> ----------------
>
> Some designs use drooping radials to reduce the vertical angle of the
> peak radiation launched by the monopole section.
>
> But that is a conclusion made for an infinite distance, with
> consideration of the propagation environment on the intrinsic pattern
> launched by the monopole, and the height of the monopole + its
> elevated radials above the earth.
>
> The link below leads to paste-up of NEC screens showing the
> performance of a monopole driven against four 1/4-wave, essentially
> horizontal radials. The entire system is isolated from earth ground.
>
> The driving impedance, the elevation pattern shape, and the peak gain
> are close to "textbook" values for a 1/4-wave monopole driven against
> a perfect ground plane.
>
> A form of this design is being used with good success in the AM
> broadcast industry -- where using a conventional, buried-radial ground
> system is impractical due to rocky terrain.
>
> The groundwave performance of these systems shows that their intrinsic
> gain is maximum in the horizontal plane, and very close to the
> theoretical value of 5.15 dBi.
>
> http://i62.photobucket.com/albums/h85/rfry-100/MonopoleWithElevatedRa...
>
> RF

2300. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 22:16:29 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <VoNGl.64053$qO1.9916@newsfe13.iad>
Source record: 16324

snip
>>
>
> You don't worship Pope and probably haven't read him, either. Hitler was a
> Christian, as was Savonarola, and King Leopold II of Belgium. There was
> even a Fundie dictator in Guatemala, whose name escapes me, but who was
> also a mass murderer. It's o.k. if you want to believe the universe is
> only 6000 years old. Fine. It's also o.k. if you want to believe you're
> morally superior to everyone you disagree with. But this is an antenna
> newsgroup, not a holier-than-thou newsgroup. Unless you can relate how
> God's Plan for the Universe includes antenna theory revelations that will
> change Ham-radio-as-we-know-it-forever, take your self-congratulatory
> theology to another venue.
> 73,
> Tom Donaly, KA6RUH

Jesus said that not all that claim Him are His:

Matthew 7:15-23, "Beware of false prophets, which come to you in sheep's clothing, but inwardly they are ravening wolves. Ye shall know them by their fruits. Do men gather grapes of thorns, or figs of thistles? Even so every good tree bringeth forth good fruit; but a corrupt tree bringeth forth evil fruit. A good tree cannot bring forth evil fruit, neither can a corrupt tree bring forth good fruit. Every tree that bringeth not forth good fruit is hewn down, and cast into the fire. Wherefore by their fruits ye shall know them. Not every one that saith unto me, Lord, Lord, shall enter into the kingdom of heaven; but he that doeth the will of my Father which is in heaven. Many will say to me in that day, Lord, Lord, have we not prophesied in thy name? and in thy name have cast out devils? and in thy name done many wonderful works? And then will I profess unto them, I never knew you: depart from me, ye that work iniquity."

Thus, according to Jesus Himself, Hitler could not have been a Christian.
As for those Christians that have a "holier-than-thou" attitude, maybe you dont know very many Christians.
If this is an antenna forum, Im sure you will not care to respond to this.

God bless you Tom.
B

2301. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-19 22:40:26 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <6NNGl.67135$GU6.9693@newsfe09.iad>
Source record: 16325

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gsa4ja$ec0s$1@tr22n12.aset.psu.edu...
> JB wrote:
>> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
>> news:G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com...
>>> Brian Oakley wrote:
>>>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>>>
>> Darwin makes quite a leap from finches to "primordial ooze".
>
> He makes no such leap.

No that was left to the pseudointellectuals.

>
>
> Even in the
>> simplest of life forms an orchestra of machinery sustains the life. If
>> any
>> piece is missing, the life can't be supported.
>
>
> No. There are many processes that make up portions of life forms that are
> quite complex, yet still function if portions go missing the Blood
> Clotting cascade is one such example.

But those processes are complex in themselves and will fail if reduced any
further.

>
> The eye has been a poster child of Creationists, yet it is at root a
> reaction to an energy input. There is a clear progression from simple
> bacterial to raptor vision (we humans do not have the "best eyes" in
> creation)

But that doesnt prove the human eye evolved from one a bacteria had. Even
that sensory cell that the bacteria had would cease to function if the
components of that cell were not all present and functioning.

>
>
>> So to believe that all
>> sprang up by accident, ready to reproduce from a rock seems to be an
>> unsupported religious belief in itself.
>
> There is a straw man for sure. Life such as it is never sprung from a

> rock. A lot of things had to happen first.

But it had to. If there were something there that was strictly mineral that
somehow, some way, in some miraclulous way turned into a living organism,
then it still originated from minerals.
>
>
>> But the Atheist will say this is
>> proof there is no God and leave it at that.
>
> Straw man again. Atheism is not in any way shape or form a requirement to
> support the idea that evolution is the method in which life forms adapt to
> their surroundings. There is no proof that there is no God.

He didnt say that atheism is a requirement. He said that atheists will say
that.

>
>
>
>> Seems unscientific at best, but
>> then Hitler, Marx, The Columbine Kids and Manifest Destiny all embraced
>> it.
>> Who's next?
>
>
> Good heavens JB!. Could you provide the citations about the Columbine kids
> views on Evolution? Shame. May they rest in peace.

This might interest you:
Eric -- Black fatigue-style pants, a white T-shirt inscribed with the words
Natural Selection on the front, black baseball cap with the letters "KMFDM"
on it (worn backwards), and a black trenchcoat (duster). Wore a black
fingerless glove on his right hand and black combat boots.

>
> Hitler was interesting here are a few quotes:
>
> "My feelings as a Christian points me to my Lord and Savior as a fighter."
>
> Munich, 1922
>
> "We are a people of different faiths, but we are one. Which faith conquers
> the other is not the question; rather, the question is whether
> Christianity stands or falls.... We tolerate no one in our ranks who
> attacks the ideas of Christianity... in fact our movement is Christian. We
> are filled with a desire for Catholics and Protestants to discover one
> another in the deep distress of our own people."
>
> Passau, 1928

Read "Hitlers Cross" by Lutzer to understand that Hitler was a manipulator, especially of the Church. Also read the following:

Matthew 7:15-23, "Beware of false prophets, which come to you in sheep's clothing, but inwardly they are ravening wolves. Ye shall know them by their fruits. Do men gather grapes of thorns, or figs of thistles? Even so every good tree bringeth forth good fruit; but a corrupt tree bringeth forth evil fruit. A good tree cannot bring forth evil fruit, neither can a corrupt tree bring forth good fruit. Every tree that bringeth not forth good fruit is hewn down, and cast into the fire. Wherefore by their fruits ye shall know them. Not every one that saith unto me, Lord, Lord, shall enter into the kingdom of heaven; but he that doeth the will of my Father which is in heaven. Many will say to me in that day, Lord, Lord, have we not prophesied in thy name? and in thy name have cast out devils? and in thy name done many wonderful works? And then will I profess unto them, I never knew you: depart from me, ye that work iniquity."

> I guess he didn't care for the Sermon on the Mount!

That quote is from the same One who gave the Sermon on the Mount. Hitler was NOT a Christian.

> And the roots of Manifest destiny can be traced John Winthrop's "City upon
> a Hill" sermon in 1630.
>
> If you choose to believe that evolution is false, that is fine, but we are
> at the point in the argument where the statement is sufficient argument of
> disbelief. There is too much evidence supporting evolution, and no science
> disproving it.

If you would be intellectually honest, you would see that there is a lot of evidence that goes against evolution.

>It takes almost as much faith to not believe in evolution now as it does to
>believe in a flat earth.

An ad hominem attack.

> Creationists have unwittingly be one of the greatest forces in research in
> evolution, as their searching for "faults" in the theory have served as a
> spur to scientists and research.
>
> Too often, Creationists assume the binary decision, in that anything that
> is not presently explained by science relating to evolutionary processes
> means that Evolution is wrong, so the only other choice is Creationism.

Ok, what other mechanisms do you think there are? Aliens??

> But seriously the religious argument can be summed up in a satisfactory
> manner by saying "I do not believe in evolution, I have faith that God
> created everything in it's present form." And that is okay. I respect your

> faith.

But you pretend that it is a blind faith, and that is also intellectually dishonest. There are many reasons for that faith, and intelligent design is a very good one.

>
> But insisting on s literal translation of the two different accounts of
> creation in Genesis,

Ther are no two different accounts. Its one in the same account. The Bible is not always cronological.

>is just as wrong as the flat earth of four corners,

Ancient civilization knew the earth was spherical. The Egyptians understood this.

As for four corners, that is a saying along the lines as "where does the sun rise?". Its an expression.

>the shape of the world as witnessed by T-O maps, the church's shabby
>treatment of Bruno and Galileo, and other "threats" to religion, however.
>The earth rotates around the sun, just as it always has. The truth was in
>fact no threat at all.

Exactly.

>
>
> Back to antennas now.......
>
> - Mike N3LI -

2302. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 00:47:49 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <c_YGl.54979$%k2.27372@newsfe07.iad>
Source record: 16332

----- Original Message -----
From: "Bruce W. Ellis" <ellis@means.net>
Newsgroups: rec.radio.amateur.antenna
Sent: Thursday, April 16, 2009 4:55 PM
Subject: Re: American interpretation

> Mike Coslo <mjc5@psu.edu> wrote:
>
>>Brian Oakley wrote:
>>
>>>>>> Just what makes you think its supposed to be ok?
>>>>
>>>>
>>>>> It wasn't exactly condemned now was it?
>>>>
>>>>> - 73 de Mike N3LI -
>>>
>>> Uh, if you read closely, thats a narrative of what took place. Life
>>> happens, good and bad. This is what the Bible is about, the good, the
>>> bad, and the ugly. It has nothing to hide about people and they wrong
>>> they do. If God doesnt jump in and throw down a thunderbolt or two, you
>>> think that means He thinks its ok? Im sorry, but you really dont
>>> understand much about God or the Bible by showing that kind of
>>> thinking. Surely youre not that naive. I think youre just biased, which
>>> is ok, but at least admit it.
>>
>>
>>We have a lot of things declared as abominations in the bible, we have a
>>lot of things on the OT that condemn people to death also. Considering
>>how some of these things are latched onto by those who would promote
>>themselves as the holy these days, I find it a little amusing. I also
>>see those folks more as Pharisees.
>>
>>If you want to know my bias, read the Sermon on the Mount. Most of the
>>rest is dross.
>>
>> - 73 de Mike N3LI -
>
> Just what we need on the ham antenna newsgroup - a rambling thread on
> the meaning of the bible.. Come on, there are better places for your
> pseudophilosophical ramblings.

Seems everyone has an opinion, and they sure dont mind voicing it. But if it goes in a direction they dont like, they are quick to point that this is not the place. I guess your qseudointellectual diatribe is king here. So be it.

>
> W0BF

2303. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 01:05:49 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49ebca5f$0$18875$8046368a@newsreader.iphouse.net>
Source record: 16326

Brian Oakley wrote:

<SNIP huge amounts of nonsense>

And PLONK.

tom
K0TAR

2304. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 01:40:22 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <52knu4t64di5e67tvv3n3ottmi7nspoo5m@4ax.com>
Source record: 16327

On Sat, 11 Apr 2009 11:43:23 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Off-topic question: Should we stone adulterers or
>not? :-)

Toss a coin:
<http://www.answering-christianity.com/bible_adultery.htm>
(Note that the above web page is from the Islamic point of view).
Various parts of the bible offer different answers. The church still
hasn't officially recognized divorce, making half the US also
adulterous.

<http://en.wikipedia.org/wiki/Adultery>

<http://www.newworldencyclopedia.org/entry/Adultery>
"In Judaism, adultery was forbidden in the seventh commandment of the
Ten Commandments, but this did not apply to a married man having
relations with an unmarried woman. Only a married woman engaging in
sexual intercourse with another man counted as adultery, in which case
both the woman and the man were considered guilty."

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2305. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 02:14:41 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <goknu4t1oivc8j7d8epej6e7riuhbfpb54@4ax.com>
Source record: 16328

On Sat, 11 Apr 2009 10:54:17 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Jeff wrote:
>> It is highly unlikely that Newton would have known Old English which went
>> out of use in the 12th Century, he probably would not have even known Middle
>> English, unless he was a avid reader of Chaucer.
>
>In what English is the King James version of the
>Bible written?

There's quite a bit on the topic here:
<http://www.bible-researcher.com/kingjames.html>
Basically, it was called "Elizabethan English". The 54 authors of the
1611 Authorized Version (there were several subsequent mutations and
revisions) did an excellent job of translation, organization, and
keeping the Anglicans, Puritans, and other cults from dominating the
final product.

In college, I read Chaucer in the original "English". It was painful
and only vaguely resembled English in any recognizable form.

Newton's Principia was published about 75 years after the King James
Bible, in 1686. All of Newton's scientific papers were in Latin. For
example, Principia:
<http://books.google.com/books?id=WqaGuP1HqE0C&printsec=frontcover&dq=Isaac+Newton%27s+Philosophiae+naturalis+principia+mathematica#PPR1,M1>
However, his correspondence was in fairly readable English, and not at
all like Olde English. There are several fragments at:
<http://en.wikipedia.org/wiki/Writing_of_Principia_Mathematica>
which show really weird punctuation and sentence structure. I guess
extra long comma spliced sentences were fashionable at the time. It's
difficult reading, but if one chops up the sentences into smaller
pieces and translated the idioms, it looks almost like modern English.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2306. COOGI man jeans

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 10:41:28 UTC
From: shoushoe07@163.com
Message-ID: <6e99d264-67df-47d8-8b78-d1e7f16585b3@p6g2000pre.googlegroups.com>
Source record: 16329
Cross-posted to: rec.radio.amateur.antenna,rec.birds

fashion jeans cheap wholesaler (paypal payment)
(www.niketrade08.cn)
denim jeanscheap wholesaler (paypal payment)
(www.niketrade08.cn)
men's jeans
brand jeans cheap wholesaler (paypal payment)
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women jeans' jeans cheap wholesaler (paypal payment)
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designer jeans
men jeans cheap wholesaler (paypal payment)
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blue jeans cheap wholesaler (paypal payment)
(www.niketrade08.cn)
Cotton Shirting
Fashion Shirts Dress Shirts cheap wholesaler (paypal payment)
(www.niketrade08.cn)
Casual Shirts Brand Shirtscheap wholesaler (paypal payment)
(www.niketrade08.cn)
Long Sleeve Shirt

Artful dodger man jeanscheap wholesaler (paypal payment)
(www.niketrade08.cn)
BAPE man jeanscheap wholesaler (paypal payment)
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Christian Audigier man jeanscheap wholesaler (paypal payment)
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G-Star man jeanscheap wholesaler (paypal payment)

(www.niketrade08.cn)
Red Monkey man jeans
ROCK man jeans cheap wholesaler (paypal payment)
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ROCK women jeans
True Religion man jeanscheap wholesaler (paypal payment)
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True Religion women jeans
Affliction man jeans
Black Label man jeanscheap wholesaler (paypal payment)
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GUCCI man jeans cheap wholesaler (paypal payment)
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Prada man jeans
Versace man jeanscheap wholesaler (paypal payment)
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Levis man jeans
A&F man jeans cheap wholesaler (paypal payment)
(www.niketrade08.cn)

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Fashion Shirts Dress Shirts cheap wholesaler (paypal payment)
(www.sneaker-shop08.com)
Casual Shirts Brand Shirtscheap wholesaler (paypal payment)
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Long Sleeve Shirt

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Versace man jeanscheap wholesaler (paypal payment)(www.sneaker-shop08.com
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Levis man jeans
A&F man jeans cheap wholesaler (paypal payment)(www.sneaker-shop08.com
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2307. Holiday Hats (paypal payment)(www.sneaker-shop08

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 10:42:34 UTC
From: shoushoe07@163.com
Message-ID: <285dfbf7-2f97-49ae-a2bf-6f843603b3ef@d19g2000prh.googlegroups.com>
Source record: 16330
Cross-posted to: rec.radio.amateur.antenna,rec.birds

Fashion Hats (paypal payment)(www.niketrade08.cn)
Knitted Hats (paypal payment)(www.niketrade08.cn)
Winter Hat Straw Hats (paypal payment)(www.niketrade08.cn)
Buckets Hats (paypal payment)(www.niketrade08.cn)
Cowboys Hat Ladies' Hat Cotton Hats (paypal payment)
(www.niketrade08.cn) Felt Hats (paypal payment)
(www.niketrade08.cn)
Wool Felt Hats (paypal payment)(www.niketrade08.cn)
Sport Hats (paypal payment)(www.niketrade08.cn)
Leisure Hat Baseball Hats (paypal payment)(www.niketrade08.cn)
Party Hat Summer Hats (paypal payment)(www.niketrade08.cn)
Crochet Hats (paypal payment)(www.niketrade08.cn)
Women's Hats (paypal payment)(www.niketrade08.cn)
Holiday Hats (paypal payment)(www.niketrade08.cn)
Children's Hats (paypal payment)(www.niketrade08.cn)
Wool Hats (paypal payment)(www.niketrade08.cn)

Fashion Hats (paypal payment)(www.sneaker-shop08.com)
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Winter Hat Straw Hats (paypal payment)(www.sneaker-shop08.com)
Buckets Hats (paypal payment)(www.sneaker-shop08.com)
Cowboys Hat Ladies' Hat Cotton Hats (paypal payment)(www.sneaker-shop08.com
) Felt Hats (paypal payment)(www.sneaker-shop08.com)
Wool Felt Hats (paypal payment)(www.sneaker-shop08.com)
Sport Hats (paypal payment)(www.sneaker-shop08.com)
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Children's Hats (paypal payment)(www.sneaker-shop08.com)
Wool Hats (paypal payment)(www.sneaker-shop08.com)

2308. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 11:19:29 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SMYGl.16025$8_3.13248@flpi147.ffdc.sbc.com>
Source record: 16331

Jeff Liebermann wrote:
> I guess
> extra long comma spliced sentences were fashionable at the time.

Heck, they were still fashionable when I was in
high school.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2309. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 11:27:31 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <B_YGI.25028$Ws1.22523@nlpi064.nbdc.sbc.com>
Source record: 16333

Roy Lewallen wrote:
> I measured current, which as everyone with a Novice or higher grade
> license should know is the rate of flow of charge(*). The charge flows
> in one direction during each half cycle, and in the other during the
> other half cycle, resulting in current which is positive for half the
> cycle and negative for the other.

Actually, electrons in a wire are slow-moving particles
and tend to oscillate back and forth at RF frequencies
rather than "flowing".

But what is being discussed here is the total current
reported by EZNEC. Is EZNEC wrong when it indicates
1 degree of current phase shift in 30 degrees of
length in a dipole antenna?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2310. Re: Variable phasing vs 4-square

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 12:49:29 UTC
From: jimlux@earthlink.net
Message-ID: <5f9be644-e0e2-4e87-98e1-68f911f63f34@d2g2000pra.googlegroups.com>
Source record: 16334

On Apr 13, 2:18 pm, "Bill Ogden" <billog...@optonline.net> wrote:
> I am trying to understand the practical differences as a receiving antenna
> between (1) two "active" verticals with a variable phasing control, and (2)
> four "active" verticals with a switch for four different directions. My
> interest is mostly for 80 meters. The physical differences are obvious, of
> course. This is mostly in regards to the two different DX Engineering
> products.
>
> Is there a significant improvement using the four-square version? Lower
> noise? Lower angles? Tighter "beam"?
>
> Bill
> W2WO

A phased array with 4 elements compared to one with 2 elements, can
potentially have more gain, and better control of side and
backlobes. It's just because you have more things to adjust to control
the pattern, so you can get "closer" to whatever pattern you want.

A two element array with variable phasing has the nice property that
it's possible to put a "pattern null" on an interfering source (in
fact, you can put N-1 nulls where N is the number of elements), and
for low bands, that can be real useful. Forward gain (on receive)
isn't all that big a deal on low bands because of the usually large
atmospheric noise.

A classic 4 square doesn't have the flexibility of nulling noise,
because it has only 4 (or 8) "beam positions" and you'd have to hope
that one of the patterns produced happens to reduce the interference
you're trying to suppress.

None of the inexpensive simple phased arrays has a very narrow beam
(compared to something like a 3 element Yagi for 20m), so the real
advantage is in having something that can be adjusted at all, compared
to a fixed dipole.

2311. Re: Cassegrain Antenna Development

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 12:57:27 UTC
From: jimlux@earthlink.net
Message-ID: <c4360b76-0f14-4c64-a0e5-013dafcb98d3@x31g2000prc.googlegroups.com>
Source record: 16335

On Apr 13, 2:08 am, Emanuele Colucci <em...@gameprog.it> wrote:
>

> Greetings,
>
> Emanuele Colucci
> em...@gameprog.it

W1GHZ has a website on amateur microwave stuff that might be useful (construction practices, etc.)

If you have access to a university library or online equivalent, there was a set of articles in the IEEE Antennas and Propagation Magazine (not the transactions on A&P) a few years back covering design of various reflector antennas.

The Cassegrain is popular for the reasons you give: low noise from behind the antenna, especially if the secondary reflector is underilluminated. And, it lets you put the electronics right at the feed without having to worry about putting them out at the prime focus.

You might also look at the Gregorian or Dragonian configurations, which are offset feed schemes. The Allen Telescope Array is using a form of Gregorian.

After that, it's mostly a matter of paper and pencil and working out the curvatures. The biggest challenge is in figuring out what the effect of your construction tolerances is.

2312. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 15:29:07 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <9r0Hl.16156$8_3.4212@flpi147.ffdc.sbc.com>
Source record: 16336

Cecil Moore wrote:
> Roy Lewallen wrote:
>> I measured current, which as everyone with a Novice or higher grade
>> license should know is the rate of flow of charge(*). The charge flows
>> in one direction during each half cycle, and in the other during the
>> other half cycle, resulting in current which is positive for half the
>> cycle and negative for the other.
>
> Actually, electrons in a wire are slow-moving particles
> and tend to oscillate back and forth at RF frequencies
> rather than "flowing".
>
> But what is being discussed here is the total current
> reported by EZNEC. Is EZNEC wrong when it indicates
> 1 degree of current phase shift in 30 degrees of
> length in a dipole antenna?

What 30 degrees? There aren't any "30 degrees of length"
in a loading coil, and there doesn't have to be.
Cecil, repeating your fantasies over and over again don't
make them true.
73,
Tom Donaly, KA6RUH

2313. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 16:45:46 UTC
From: Calltrex <c@lltrex.com>
Message-ID: <49eca869$0$15978$6d4158fb@reader.xsnews.nl>
Source record: 16337

"Cecil Moore" <nospam@w5dxp.com> wrote for the world
>>
>> I agree that the antenna is a chain of different pure resistances. But that
>> doesn't explain the asymmetric 'snapshot' here.

> Sometimes voltage and current have the same signs and sometimes
> they have opposite signs. Remember, this is a snapshot in
> time. 1/2 cycle later the envelopes will be upside down.
> 73, Cecil, IEEE.

That 'sometimes' opposite is extremely important in my eyes. When you explained
in phase and '+' and '-' at the same time, i figured; + x - = nearly zero=free energy !
So i went searching for antenneas etc. and found even the patent ! Even films
were found on the subject. I didn't say it was indexed but via via. Think out of
the box. [if you can]

2314. Re: Antenna Current Measurement

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 17:31:15 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gsibh3nrh1@news.jpl.nasa.gov>
Source record: 16341

Tom Horne wrote:
> K7ITM wrote:
>> On Apr 3, 9:38 pm, Tom Horne <horn...@verizon.net> wrote:
>>> I realize this may be a terribly basic question but at any given
>>> transmitter power will the highest current measured in the antenna feed
>>> line occur at the lowest SWR or not.
>>> --
>>> Tom Horne
>>>
>
> If you have the patience please bare with me as I'm hoping to learn
> something here. I was trying to figure out what use if any could be
> made of a current measuring device located at the antenna feed point.

The current measuring device has to measure the complex current
(relative to the voltage). Active power going into the antenna and
being radiated or turned into heat is the product of the voltage and in
phase current. Reactive power which flows back and forth between
antenna and rest of system is the quadrature phase current.

> What relationship would there be between maximum current at the feed
> point and affective radiated power.

None, really, unless the system is perfectly matched. Consider a case
where you have a big capacitor as the antenna, and a big inductor on the
other side of the current meter. You could have very high currents
flowing in the LC resonant circuit, but very little actually radiated.

I've been told in both my license
> preparation classes that making sure that the transmitter sees a low SWR
> does not insure a good signal out of the antenna.

This is true, but usually refers to the idea that a lossy
antenna/feedline can improve the SWR seen by the transmitter.

I'm looking for some
> way to actually measure the amount of energy that is getting to the
> antenna since it seams impractical to measure the signal strength in the
> near or far fields during operation of the transmitter.

No more impractical to measure field strength then accurately measure
the energy going to the antenna. Both can (and have) been done.

Field measurements only measure at some point(s) in the field, so if you
have any directivity, then what you measure in direction A may not
relate well to what's being radiated in direction B.

OTOH, measuring the power flow in the feedline doesn't tell you whether
the power is radiated, or just heating the antenna.
>

2315. Smithe Antennas of Laurel MD ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 17:40:41 UTC
From: Steve Stone <spfleck@citlink.net>
Message-ID: <gsic34jbs1@news.motzarella.org>
Source record: 16338

A friend gave me an unknown (to me) HF antenna.
Only marking on the 5 foot long white plastic pipe case is "Smithe
Antennas, Laurel, MD"
Inside the pipe are about 6 pieces of aluminum tubing , some 1/2 inch
white plastic pipe, one elbow, a plastic pipe T
with a small length of coax attached to a pair of "clips", and a set of
coils stuck in Styrofoam.

No paperwork.
Anyone familiar with this one?

Steve
N2UBP

2316. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 17:47:26 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsicff$bk28$1@tr22n12.aset.psu.edu>
Source record: 16339

```
Brian Oakley wrote:
>
> "Michael Coslo" <mjc5@psu.edu> wrote in message
> news:gsa4ja$ec0s$1@tr22n12.aset.psu.edu...
>> JB wrote:
>>> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
>>> news:G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com...
>>>> Brian Oakley wrote:
>>>>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>>>>
>>> Darwin makes quite a leap from finches to "primordial ooze".
>>
>> He makes no such leap.
>
> No that was left to the pseudointellectuals.
>
>>
>>
>> Even in the
>>> simplest of life forms an orchestra of machinery sustains the life.
>>> If any
>>> piece is missing, the life can't be supported.
>>
>>
>> No. There are many processes that make up portions of life forms that
>> are quite complex, yet still function if portions go missing the Blood
>> Clotting cascade is one such example.
>
> But those processes are complex in themselves and will fail if reduced
> any further.
>
>>
>> The eye has been a poster child of Creationists, yet it is at root a
>> reaction to an energy input. There is a clear progression from simple
>> bacterial to raptor vision (we humans do not have the "best eyes" in
>> creation)
>
> But that doesnt prove the human eye evolved from one a bacteria had.
> Even that sensory cell that the bacteria had would cease to function if
> the components of that cell were not all present and functioning.
>
>>
>>
>>> So to believe that all
```

>>> sprang up by accident, ready to reproduce from a rock seems to be an
>>> unsupported religious belief in itself.
>>
>> There is a straw man for sure. Life such as it is never sprung from a
>> rock. A lot of things had to happen first.
>
> But it had to. If there were something there that was strictly mineral
> that somehow, some way, in some miraclulous way turned into a living
> organism, then it still originated from minerals.
>>
>>
>>> But the Atheist will say this is
>>> proof there is no God and leave it at that.
>>
>> Straw man again. Atheism is not in any way shape or form a requirement
>> to support the idea that evolution is the method in which life forms
>> adapt to their surroundings. There is no proof that there is no God.
>
> He didnt say that atheism is a requirement. He said that atheists will
> say that.
>
>>
>>
>>
>>> Seems unscientific at best, but
>>> then Hitler, Marx, The Columbine Kids and Manifest Destiny all
>>> embraced it.
>>> Who's next?
>>
>>
>> Good heavens JB!. Could you provide the citations about the Columbine
>> kids views on Evolution? Shame. May they rest in peace.
>
> This might interest you:
> Eric -- Black fatigue-style pants, a white T-shirt inscribed with the
> words Natural Selection on the front, black baseball cap with the
> letters "KMFDM" on it (worn backwards), and a black trenchcoat (duster).
> Wore a black fingerless glove on his right hand and black combat boots.
>
>>
>> Hitler was interesting here are a few quotes:
>>
>> "My feelings as a Christian points me to my Lord and Savior as a
>> fighter."
>>
>> Munich, 1922
>>
>> "We are a people of different faiths, but we are one. Which faith
>> conquers the other is not the question; rather, the question is
>> whether Christianity stands or falls.... We tolerate no one in our

>> ranks who attacks the ideas of Christianity... in fact our movement is
>> Christian. We are filled with a desire for Catholics and Protestants
>> to discover one another in the deep distress of our own people."
>>
>> Passau, 1928
>
> Read "Hitlers Cross" by Lutzer to understand that Hitler was a
> manipulator, especially of the Church. Also read the following:
>
> Matthew 7:15-23, "Beware of false prophets, which come to you in sheep's
> clothing, but inwardly they are ravening wolves. Ye shall know them by
> their fruits. Do men gather grapes of thorns, or figs of thistles? Even
> so every good tree bringeth forth good fruit; but a corrupt tree
> bringeth forth evil fruit. A good tree cannot bring forth evil fruit,
> neither can a corrupt tree bring forth good fruit. Every tree that
> bringeth not forth good fruit is hewn down, and cast into the fire.
> Wherefore by their fruits ye shall know them. Not every one that saith
> unto me, Lord, Lord, shall enter into the kingdom of heaven; but he that
> doeth the will of my Father which is in heaven. Many will say to me in
> that day, Lord, Lord, have we not prophesied in thy name? and in thy
> name have cast out devils? and in thy name done many wonderful works?
> And then will I profess unto them, I never knew you: depart from me, ye
> that work iniquity."
>>
>> I guess he didn't care for the Sermon on the Mount!
>
> That quote is from the same One who gave the Sermon on the Mount.
> Hitler was NOT a Christian.

There are many people today who profess to be Christains, yet most of
their beliefs are straight old testament.

>>
>> And the roots of Manifest destiny can be traced John Winthrop's "City
>> upon a Hill" sermon in 1630.
>>
>> If you choose to believe that evolution is false, that is fine, but we
>> are at the point in the argument where the statement is sufficient
>> argument of disbelief. There is too much evidence supporting
>> evolution, and no science disproving it.
>
> If you would be intellectually honest, you would see that there is a lot
> of evidence that goes against evolution.
>
>> It takes almost as much faith to not believe in evolution now as it
>> does to believe in a flat earth.
>
> An ad hominem attack.

No, it isn't ad hominum. Put another way, there is a lot of evidence
that points to the theory of evolution as fact. Things change. The

related disciplines that verify the concept are likewise wrong if Evo is. All it will take to prove evolution wrong is if say modern humans are found in very early sediments along with the critters we've found there to date. But the evidence shows a forward movement of time, and never backwards. Modern animals only appear in recent times. Ancient ones show a terrmination. Those anomalies such as animals that haven't changed much, or "rediscovered" animals once thought extinct are just wonderous additions to life.

>>
>> Creationists have unwittingly be one of the greatest forces in
>> research in evolution, as their searching for "faults" in the theory
>> have served as a spur to scientists and research.
>>
>> Too often, Creationists assume the binary decision, in that anything
>> that is not presently explained by science relating to evolutionary
>> processes means that Evolution is wrong, so the only other choice is
>> Creationism.
>
> Ok, what other mechanisms do you think there are? Aliens??

Ohh careful there. Creationists who use the weak form of Intelligent design claim the possibility of aliens creating life here.

But the entire argument in that regard is specious anyhow. Evolution has not one single thing to say about the ultimate beginning of life. It only deals with what happens afterward.

>> But seriously the religious argument can be summed up in a
>> satisfactory manner by saying "I do not believe in evolution, I have
>> faith that God created everything in it's present form." And that is
>> okay. I respect your faith.
>
> But you pretend that it is a blind faith, and that is also
> intellectually dishonest. There are many reasons for that faith, and
> intelligent design is a very good one.

Okay, you have no blind faith? Do a lot of investigating of the physics and chemistry and paleontology. Come up with experiments and refute it.

Intelligent design has performed no science, no peer reviewed research, with the exception of one report that was immediately refuted.

Instead, the Intelligent design folks want to debate. Strangely enough, that debate is envisioned as proving something. If evolution loses the debate, is there no evolution. If it wins, is their no God?

Here's a good idea. Instead of taking peoples money and trying to get ID insertd into schools curriculum, take that money and do good research!

Most distressing howevwer is the duality of the IDer's approach. the switching between the weak ID that is brought out when trying to sneak their belief into school science programs, (teach the controversy) and

the very same people saying that they want to replace the system as taught now with science that is in alignment with the Christian faith.

I don't think God needs or wants anyone lying for him.

>>
>> But insisting on s literal translation of the two different accounts
>> of creation in Genesis,
>
> Ther are no two different accounts. Its one in the same account. The
> Bible is not always cronological.

Don't know what to say here, Brian. Some times it's literal, some times it's not, and sometimes we just pick and choose.

>> is just as wrong as the flat earth of four corners,
>
> Ancient civilization knew the earth was spherical. The Egyptians
> understood this.

The spherical earth concept started around 330 B.C. It was well known during the middle ages. Oddly enough the resurgent Flat Earth, promoter, Samuel Rowbotham, came up with his "Zoetitic Astronomy" system, in around the mid 1800's which depended on his particular interpretation of the Bible. Interestingly enough, in the 1800's he engaged in public debates with leading scientists. One doesn't prove the other, of course, but it's interesting to see that the more things change, the more they remain the same.

I really don't want to belabor the group with much more of this, we need to get back to discussions of Art's antenna designs.

All I would say is that I would suggest some personal research, and repeat that evolution doesn't have a thing to do with origin, so just perhaps, there are people out there who might want to manipulate others with a red herring of an issue.

- 73 de Mike N3LI -

2317. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 17:54:16 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsics8$bk2a$1@tr22n12.aset.psu.edu>
Source record: 16340

Brian Oakley wrote:

> Seems everyone has an opinion, and they sure dont mind voicing it. But
> if it goes in a direction they dont like, they are quick to point that this is
> not the place. I guess your qseudointellectual diatribe is king here. So be it.

Really, it's not that bad. In fact given what happens to sensitive
topics in other newsgroups, I think we've all behaved pretty well in
here. Had some civil disagreements, and I was the only one who got
called any names.

A couple years ago, I cuddnt even spel sudointilectuyal - now I is one!
Take care, and Illegetimi non carborundrum. 8^)

- 73 de Mike N3LI -

2318. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 18:15:49 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <CZ2HI.12503$jZ1.2772@flpi144.ffdc.sbc.com>
Source record: 16342

Tom Donaly wrote:
> Cecil Moore wrote:
>> But what is being discussed here is the total current
>> reported by EZNEC. Is EZNEC wrong when it indicates
>> 1 degree of current phase shift in 30 degrees of
>> length in a dipole antenna?
>
> What 30 degrees? There aren't any "30 degrees of length"
> in a loading coil, and there doesn't have to be.

I'm glad you asked, Tom. There was no mention of
a loading coil. I am talking about a simple 1/2WL
wire dipole with current probes at the x=1/3 and
y=2/3 points as illustrated. Why I am doing that
will become obvious.

------------------------fp-------x-------y--------

This is a center-fed 1/2WL dipole with current probes
installed at points 'x' and 'y'. The 1/2WL dipole is
known to be 180 degrees long. Half of a 1/2WL dipole
is 1/4WL, i.e. 90 degrees long. From the feedpoint
to point 'x' is 30 degrees. From point 'x' to point
'y' is 30 degrees. From point 'y' to the end of the
dipole is 30 degrees.

This 1/2WL dipole in EZNEC uses two wires of 90 segments
each, i.e. each segment equals one degree of dipole.
Point 'x' is at segment 30 and point 'y' is at segment
60 in Wire No. 2 on the right side of the dipole above.

Here are the results directly from EZNEC:

Source 1 Current = 1 A. at 0.0 deg.

Wire No. 2:
Segment Conn Magnitude (A.) Phase (Deg.)
30 'x' .87634 -1.49
60 'y' .52573 -2.43
90 Open .01185 -3.12

The phase of the current changes by 1.06 degrees between
point 'x' and point 'y' which is 30 degrees of antenna
WIRE (not loading coil). How can the phase of that current
possibly be used to determine the delay through the wire
which we know is related to the speed of light in the wire
medium? The delay through 30 degrees of wire at 4 MHz

would be about 20 nanoseconds.

In the 1/2WL wire dipole above, the phase of the current in each 90 degrees of wire changes by 3.12 degrees.

If Roy performs the measurements, he will correctly report a negligible phase shift in the current between point 'x' and point 'y' (just as he did for the loading coil).

Following his previous loading coil logic, he will report that the delay through 30 degrees of wire dipole is not 20 nS at 4 MHz as would be expected but is instead closer to zero, maybe one or two nanoseconds. We all know that report would be false. One cannot use a current with essentially unchanging phase to calculate delay through a wire (or through a loading coil).

If Roy cannot accurately measure the delay through 30 degrees of wire, why does anyone suppose Roy can accurately measure the delay through a loading coil using the phase of that same total current on a standing wave antenna?

Note that the true phase information is contained in the amplitude, not the phase, just as Gene Fuller said. If we take the ARCCOSine of the magnitudes above, we obtain:

Source, ARCCOS(1.0) = 0 degrees
Seg 30, ARCCOS(0.87634) = 29 degrees
Seg 60, ARCCOS(0.52573) = 58 degrees
Seg 90, ARCCOS(0.01185) = 89 degrees

Incidentally, I told all of this to Roy 5 years ago, Jan 2004, according to Google. He plonked me.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2319. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 18:30:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <cb3Hl.25046$c45.6182@nlpi065.nbdc.sbc.com>
Source record: 16343

Calltrex wrote:
>
> "Cecil Moore" wrote:
>> Sometimes voltage and current have the same signs and sometimes
>> they have opposite signs.
>
> That 'sometimes' opposite is extremely important in my eyes.

I should have said: "Sometimes voltage and current
envelopes have the same signs and sometimes they
have opposite signs." The voltage snapshot is at
t=0. The current snapshot is at t=90 degrees, i.e.
they do not occur at the same time.

Let's see if I can say it a different way.

When the current standing wave envelope is a cosine wave
at its maximum, the voltage standing-wave waveform is zero.

When the voltage standing wave envelope is a sine wave at
its maximum, the current standing-wave waveform is zero.

The graphs of voltage and current envelopes at which you
are looking do *NOT* occur at the same time. There is nothing
except confusion to be gained from assuming they occur at the
same time - since they *NEVER* occur at the same time.

For V*I to be meaningful in reality, they have to occur
at the same time. When the voltage envelope is at its
maximum, there is zero energy in the magnetic field.
When the current envelope is at its maximum, there is
zero energy in the electric field.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2320. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 18:35:49 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <7g3Hl.25047$c45.438@nlpi065.nbdc.sbc.com>
Source record: 16344

Michael Coslo wrote:
> Put another way, there is a lot of evidence
> that points to the theory of evolution as fact.

Rhetorical question: What if evolution is just
one of the tools in God's toolbox?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2321. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 19:29:29 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <l24Hl.25053$Ws1.2607@nlpi064.nbdc.sbc.com>
Source record: 16345

```
Cecil Moore wrote:
> Tom Donaly wrote:
>> Cecil Moore wrote:
>>> But what is being discussed here is the total current
>>> reported by EZNEC. Is EZNEC wrong when it indicates
>>> 1 degree of current phase shift in 30 degrees of
>>> length in a dipole antenna?
>>
>> What 30 degrees? There aren't any "30 degrees of length"
>> in a loading coil, and there doesn't have to be.
>
> I'm glad you asked, Tom. There was no mention of
> a loading coil. I am talking about a simple 1/2WL
> wire dipole with current probes at the x=1/3 and
> y=2/3 points as illustrated. Why I am doing that
> will become obvious.
>
> ------------------------fp-------x-------y--------
>
> This is a center-fed 1/2WL dipole with current probes
> installed at points 'x' and 'y'. The 1/2WL dipole is
> known to be 180 degrees long. Half of a 1/2WL dipole
> is 1/4WL, i.e. 90 degrees long. From the feedpoint
> to point 'x' is 30 degrees. From point 'x' to point
> 'y' is 30 degrees. From point 'y' to the end of the
> dipole is 30 degrees.
>
> This 1/2WL dipole in EZNEC uses two wires of 90 segments
> each, i.e. each segment equals one degree of dipole.
> Point 'x' is at segment 30 and point 'y' is at segment
> 60 in Wire No. 2 on the right side of the dipole above.
>
> Here are the results directly from EZNEC:
>
> Source 1 Current = 1 A. at 0.0 deg.
>
> Wire No. 2:
> Segment Conn Magnitude (A.) Phase (Deg.)
> 30 'x' .87634 -1.49
> 60 'y' .52573 -2.43
> 90 Open .01185 -3.12
>
> The phase of the current changes by 1.06 degrees between
> point 'x' and point 'y' which is 30 degrees of antenna
```

> *WIRE* (not loading coil). How can the phase of that current
> possibly be used to determine the delay through the wire
> which we know is related to the speed of light in the wire
> medium? The delay through 30 degrees of wire at 4 MHz
> would be about 20 nanoseconds.
>
> In the 1/2WL wire dipole above, the phase of the current
> in each 90 degrees of wire changes by 3.12 degrees.
>
> If Roy performs the measurements, he will correctly report
> a negligible phase shift in the current between point 'x'
> and point 'y' (just as he did for the loading coil).
>
> Following his previous loading coil logic, he will report
> that the delay through 30 degrees of wire dipole is not
> 20 nS at 4 MHz as would be expected but is instead closer
> to zero, maybe one or two nanoseconds. We all know that
> report would be false. One cannot use a current with
> essentially unchanging phase to calculate delay through
> a wire (or through a loading coil).
>
> If Roy cannot accurately measure the delay through
> 30 degrees of wire, why does anyone suppose Roy can
> accurately measure the delay through a loading coil
> using the phase of that same total current on a standing
> wave antenna?
>
> Note that the true phase information is contained in the
> amplitude, not the phase, just as Gene Fuller said. If we
> take the ARCCOSine of the magnitudes above, we obtain:
>
> Source, ARCCOS(1.0) = 0 degrees
> Seg 30, ARCCOS(0.87634) = 29 degrees
> Seg 60, ARCCOS(0.52573) = 58 degrees
> Seg 90, ARCCOS(0.01185) = 89 degrees
>
> Incidentally, I told all of this to Roy 5 years ago,
> Jan 2004, according to Google. He plonked me.

I don't blame him for plonking you. You're saying that because you fantasized that Roy would make a mistake that Roy would never make, that he also made the same mistake when measuring the delay through a coil. Cecil, a length of antenna is not a coil. A coil is not an antenna. Declaring that coils are antennas and vice versa doesn't make them so. You don't really know what the delay through your bugcatcher coil is. If you substituted a real transmission line for your coil, you could make the degree length - within limits - whatever you wanted it to be just by changing the Z0 of the transmission line.

So here's your logic: Because EZNEC reports a amall angular difference at the ends of your half-wave antenna in current, and because Roy

measured a small difference in delay through a coil, there must be a larger real delay across the coil due to the analogy with the half wave antenna. You're assuming, without proof, that the coil behaves as a piece of straight wire, therefore the coil behaves as a piece of straight wire. Nice logic. You have a lot in common with Art.
73,
Tom Donaly, KA6RUH

2322. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 20:01:28 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b30a1100-90e5-4f88-8469-d1cfa11c45fe@o27g2000vbd.googlegroups.com>
Source record: 16346

```
On Apr 20, 2:29 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> Cecil Moore wrote:
> > Tom Donaly wrote:
> >> Cecil Moore wrote:
> >>> But what is being discussed here is the total current
> >>> reported by EZNEC. Is EZNEC wrong when it indicates
> >>> 1 degree of current phase shift in 30 degrees of
> >>> length in a dipole antenna?
>
> >> What 30 degrees? There aren't any "30 degrees of length"
> >> in a loading coil, and there doesn't have to be.
>
> > I'm glad you asked, Tom. There was no mention of
> > a loading coil. I am talking about a simple 1/2WL
> > wire dipole with current probes at the x=1/3 and
> > y=2/3 points as illustrated. Why I am doing that
> > will become obvious.
>
> > ------------------------fp-------x-------y--------
>
> > This is a center-fed 1/2WL dipole with current probes
> > installed at points 'x' and 'y'. The 1/2WL dipole is
> > known to be 180 degrees long. Half of a 1/2WL dipole
> > is 1/4WL, i.e. 90 degrees long. From the feedpoint
> > to point 'x' is 30 degrees. From point 'x' to point
> > 'y' is 30 degrees. From point 'y' to the end of the
> > dipole is 30 degrees.
>
> > This 1/2WL dipole in EZNEC uses two wires of 90 segments
> > each, i.e. each segment equals one degree of dipole.
> > Point 'x' is at segment 30 and point 'y' is at segment
> > 60 in Wire No. 2 on the right side of the dipole above.
>
> > Here are the results directly from EZNEC:
>
> > Source 1      Current = 1 A. at 0.0 deg.
>
> > Wire No. 2:
> > Segment  Conn      Magnitude (A.)  Phase (Deg.)
> > 30       'x'        .87634          -1.49
> > 60       'y'        .52573          -2.43
> > 90       Open       .01185          -3.12
>
> > The phase of the current changes by 1.06 degrees between
```

> > point 'x' and point 'y' which is 30 degrees of antenna
> > *WIRE* (not loading coil). How can the phase of that current
> > possibly be used to determine the delay through the wire
> > which we know is related to the speed of light in the wire
> > medium? The delay through 30 degrees of wire at 4 MHz
> > would be about 20 nanoseconds.
>
> > In the 1/2WL wire dipole above, the phase of the current
> > in each 90 degrees of wire changes by 3.12 degrees.
>
> > If Roy performs the measurements, he will correctly report
> > a negligible phase shift in the current between point 'x'
> > and point 'y' (just as he did for the loading coil).
>
> > Following his previous loading coil logic, he will report
> > that the delay through 30 degrees of wire dipole is not
> > 20 nS at 4 MHz as would be expected but is instead closer
> > to zero, maybe one or two nanoseconds. We all know that
> > report would be false. One cannot use a current with
> > essentially unchanging phase to calculate delay through
> > a wire (or through a loading coil).
>
> > If Roy cannot accurately measure the delay through
> > 30 degrees of wire, why does anyone suppose Roy can
> > accurately measure the delay through a loading coil
> > using the phase of that same total current on a standing
> > wave antenna?
>
> > Note that the true phase information is contained in the
> > amplitude, not the phase, just as Gene Fuller said. If we
> > take the ARCCOSine of the magnitudes above, we obtain:
>
> > Source, ARCCOS(1.0)   = 0 degrees
> > Seg 30, ARCCOS(0.87634) = 29 degrees
> > Seg 60, ARCCOS(0.52573) = 58 degrees
> > Seg 90, ARCCOS(0.01185) = 89 degrees
>
> > Incidentally, I told all of this to Roy 5 years ago,
> > Jan 2004, according to Google. He plonked me.
>
> I don't blame him for plonking you. You're saying that because you
> fantasized that Roy would make a mistake that Roy would never make,
> that he also made the same mistake when measuring the delay through a
> coil. Cecil, a length of antenna is not a coil. A coil is not an
> antenna. Declaring that coils are antennas and vice versa doesn't make
> them so. You don't really know what the delay through your bugcatcher
> coil is. If you substituted a real transmission line for your coil,
> you could make the degree length - within limits - whatever you wanted
> it to be just by changing the Z0 of the transmission line.
>

> So here's your logic: Because EZNEC reports a amall angular difference
> at the ends of your half-wave antenna in current, and because Roy
> measured a small difference in delay through a coil, there must be a
> larger real delay across the coil due to the analogy with the half wave
> antenna. You're assuming, without proof, that the coil behaves as a
> piece of straight wire, therefore the coil behaves as a piece of
> straight wire. Nice logic. You have a lot in common with Art.
> 73,
> Tom Donaly, KA6RUH

Well Tom I am not part of this debate but to say a coil is not a
radiator is silly It must radiate as does a helix antenna. The only
difference is how much slower the helix forces the charge to delay as
in "slow wave." Thus the coil act as a radiator where you must
multiply it by a velocity factor. After all, a "tesla" style coil will
display a resonance with the wire used much longer than a straight
wire length and like a helix will radiate.
Kraus states that for a helix one should not use wire shorter than two
wavelength
which I suspect is a substitute calculation for the VF change from a
straight radiator.

Ar

2323. Re: At resonant dipole with reactive characteristics.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 20:12:32 UTC
From: Denny <k8do@mailblocks.com>
Message-ID: <a9522496-1953-4655-b88e-fa4205672f9b@j12g2000vbl.googlegroups.com>
Source record: 16347

The voltage snapshot is at
> t=0. The current snapshot is at t=90 degrees, i.e.
> they do not occur at the same time.

So, which snapshot points to due North?

denny / k8do

2324. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 21:00:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Hn5Hl.14942$hc1.2035@flpi150.ffdc.sbc.com>
Source record: 16348

Tom Donaly wrote:
> I don't blame him for plonking you. You're saying that because you
> fantasized that Roy would make a mistake that Roy would never make,
> that he also made the same mistake when measuring the delay through a
> coil.

Sorry Tom, that is a diversion. The subject is NOT the delay through a coil. The present subject is the delay through a straight wire which is well understood. Please deal with the topic at hand. If you refuse, we will know that you are not sincere as far as technical facts are concerned.

Please ask Roy to prove that the current on a standing wave antenna can be used to measure the delay through a straight piece of wire that is x degrees long. If so, exactly how is it done?

Roy is NOT omniscient. He definitely made the mistake but like most gurus, refuses to admit it. You want to sweep the mistake under the rug through diversions but I won't allow you to do that. Once you and Roy admit that the current on a standing wave antenna cannot be used to calculate delay, everything else will become clear.

Please feel free to contact Roy by private email to resolve the issue. Roy has, so far, simply stuck his head in the sandbags and refused to respond. I'm sure he would have advised you to plonk me instead of engaging me, for fear of being proved wrong.

Yet, he admitted years ago that the phase of current in a standing wave antenna varies by a very small amount. He is presently trying to have his cake and eat it too. In the process, he (and you as a supporter) are hoodwinking the unwashed masses. Shame on all of you.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2325. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 21:07:00 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Tt5Hl.8439$im1.4112@nlpi061.nbdc.sbc.com>
Source record: 16349

Art Unwin wrote:
> Kraus states that for a helix one should not use wire shorter than two
> wavelength which I suspect is a substitute calculation for the VF
> change from a straight radiator.

Because of adjacent coil coupling, it takes
more wire to achieve the phase shift effect
of a straight wire.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2326. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 21:32:52 UTC
From: JB <nospam@goofball.net>
Message-ID: <8S5HI.1247$N5.126@nwrddc01.gnilink.net>
Source record: 16350

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gsa4ja$ec0s$1@tr22n12.aset.psu.edu...
> JB wrote:
> > "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
> > news:G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com...
> >> Brian Oakley wrote:
> >>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
> >>>
> > Darwin makes quite a leap from finches to "primordial ooze".
>
> He makes no such leap.

He does make quite a leap to the "family tree". Many such leaps seem to be accepted as fact. The primordial soup explanation has yet to be proven and the experiment cited as proof has already been debunked but it still finds it's way into textbooks as fact. The scientific method doesn't allow us to make assumptions then try to back them up in further investigations. It seems that our course of institutional investigations have lead to censorship through active measures against those who don't fully buy into it.

> Even in the
> > simplest of life forms an orchestra of machinery sustains the life. If
any
> > piece is missing, the life can't be supported.
>
>
> No. There are many processes that make up portions of life forms that
> are quite complex, yet still function if portions go missing the Blood
> Clotting cascade is one such example.

That isn't what I meant. I was speaking of those functions without which the organism is not viable. Your choice of a life form without the Blood Clotting Cascade is an example of a life form that perhaps was designed as food or at least highly expendable otherwise it would have been designed with self-repair and defensive mechanisms in mind. Even if you don't believe in ID, you indicate some knowledge of the kind of complex processes I allude to.

> The eye has been a poster child of Creationists, yet it is at root a
> reaction to an energy input. There is a clear progression from simple
> bacterial to raptor vision (we humans do not have the "best eyes" in
> creation)

I didn't mention the Eye. How is it relevant? Bacteria is still life and still highly complex at the molecular level.

> > So to believe that all
> > sprang up by accident, ready to reproduce from a rock seems to be an
> > unsupported religious belief in itself.
>
> There is a straw man for sure. Life such as it is never sprung from a
> rock. A lot of things had to happen first.

How is this a straw man? What "things had to happen first" for any life?
You justify my argument that it takes a leap of faith. Do you mean to say
that life cannot be created if we can't do it?

> > But the Atheist will say this is
> > proof there is no God and leave it at that.
>
> Straw man again. Atheism is not in any way shape or form a requirement
> to support the idea that evolution is the method in which life forms
> adapt to their surroundings. There is no proof that there is no God.

Darwin was a devout Atheist and that was the basic a priori of his
investigations and theory. We know that life forms adapt to their
surroundings. It is obvious. We don't find them changing from one species
to another. We don't even find fossil evidence of "missing link" organisms
that prove the great transitions of DNA between species.

> > Seems unscientific at best, but
> > then Hitler, Marx, The Columbine Kids and Manifest Destiny all embraced
it.
> > Who's next?
>
> Good heavens JB!. Could you provide the citations about the Columbine
> kids views on Evolution? Shame. May they rest in peace.

So you do believe in heaven? Or not? The shooters at Columbine where
wearing T-shirts that said "Natural Selection" and spent lots of time on
neo-Nazi web sites. It is a matter of evidence. We can't cross examine
them under oath (?) so they can't answer for their actions.

> Hitler was interesting here are a few quotes:
>
> "My feelings as a Christian points me to my Lord and Savior as a fighter."
>
> Munich, 1922

This was bull crap propaganda so that he would have less trouble with
Christians, Like Obama, who is obviously preaching Marxist Secular Humanism
in his speeches, and evidence suggests, sought out his home church as a
forum for his political advancement after he lost to Bobby Rush for "not
being black enough" as his constituents put it. I don't think it imparts a
benefit of the doubt if he is a Christian for fleeting moments when he finds
himself in a church.

Not only was Hitler a known liar, he actually invoked a half-baked pagan
religion to support his Aryan beliefs.

> "We are a people of different faiths, but we are one. Which faith
> conquers the other is not the question; rather, the question is whether
> Christianity stands or falls.... We tolerate no one in our ranks who
> attacks the ideas of Christianity... in fact our movement is Christian.
> We are filled with a desire for Catholics and Protestants to discover
> one another in the deep distress of our own people."
>
> Passau, 1928
>
> I guess he didn't care for the Sermon on the Mount!
>
> And the roots of Manifest destiny can be traced John Winthrop's "City
> upon a Hill" sermon in 1630.

Manifest Destiny and Evolution come together as justifications of the westward movements, genocide of the indigent American population, as well as most of the genocides, mass murders and revolutions in the 19 and 20th centuries.

And Jeremiah Wright gave sermons too. Citing preachers tells more about you. Let's not go there because Jesus himself stated that "there will come false prophets". You need to work on your discernment.

> If you choose to believe that evolution is false, that is fine, but we
> are at the point in the argument where the statement is sufficient
> argument of disbelief. There is too much evidence supporting evolution,
> and no science disproving it. It takes almost as much faith to not
> believe in evolution now as it does to believe in a flat earth.

"Flat earth" is nowhere in the Bible. What evidence supports that all life is an adaptation from a single organism? What evidence supports that DNA can change radically and be viable. Indeed prove that genetic mutation actually can result in anything but a loss in material, thus result in a De-evolution instead of evolution? Perhaps we are all adapted from ferns. There is significantly more genetic material in ferns than most in the animal kingdom. What can the new life form viably reproduce with. This would seem to be most possible with reproduction by cell division, but individual survivors would seem to be food at the point it emerged. Where are the new single celled species that have sprung up spontaneously from existing species?

> Creationists have unwittingly be one of the greatest forces in research
> in evolution, as their searching for "faults" in the theory have served
> as a spur to scientists and research.

Hold the presses! You mean they aren't just idiot superstitious morons? But have actually researched the Macro Evolution theory as it applies to the emergence of life and found it lacking?

> Too often, Creationists assume the binary decision, in that anything
> that is not presently explained by science relating to evolutionary
> processes means that Evolution is wrong, so the only other choice is
> Creationism.

>
> But seriously the religious argument can be summed up in a satisfactory
> manner by saying "I do not believe in evolution, I have faith that God
> created everything in it's present form." And that is okay. I respect
> your faith.

That isn't my argument. Please don't assume that the above Blog "Either-Or" arguments are the only ones out there. Is it your argument that no matter how life came to be at all by any means could not have been spurred on by an unseen force? Or that every miracle can be explained by accident or natural progression of events? Perhaps the predictions that were fulfilled in the Bible were simply intelligent assessment by natural progression. Although you could point to those, it doesn't explain it all away.

Here is the philosophical problem. If the Universe follows a purely predictable mechanism, or a combination of predictability and seemingly random events, It does not prove or disprove a design. At this point, I can't pose a definitive theory of how the Earth, Solar System, Universe or Life came to be. The Bible is not a scientific journal, It is a historical journal penned by those who didn't consider a scientific approach to explaining any event. In many cases it is a narrative and in others it is a legal documentary record of events, observations and inspirations. It is a fascinating concept that it could have actually been orchestrated by the Divine. Perhaps we could agree that although the scientific explanation is lacking in scripture, we shouldn't dismiss the idea that there is no truth underlying the explanations that is yet to be revealed. Once upon a time, one could investigate while still believing in a creator. That seems to have lost ground to Political constraints. My thought is that Macro Evolution has become only one of many thoughts forced on a captive audience by condescending liberals that are bringing society to crisis.

> But insisting on s literal translation of the two different accounts of
> creation in Genesis, is just as wrong as the flat earth of four
> corners, the shape of the world as witnessed by T-O maps, the church's
> shabby treatment of Bruno and Galileo, and other "threats" to religion,
> however. The earth rotates around the sun, just as it always has. The
> truth was in fact no threat at all.

Not my argument either. You make a great many assumptions of my arguments and dismiss them as "straw man".
"There will come false prophets". they will be known by their works.

> Back to antennas now.......

2327. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 21:56:45 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <yc6Hl.12514$jZ1.4665@flpi144.ffdc.sbc.com>
Source record: 16251

JB wrote:
> The scientific method doesn't allow us to
> make assumptions then try to back them up in further investigations.

Sorry, that's exactly what the scientific method allows
us to do.

1. Form an hypothesis
2. Compare it to reality
3. If it doesn't fit, fine tune the hypothesis
4. Then goto 1, Else it is true

The fact that we humans share 95% of a chimpanzee's
DNA is proof enough that evolution is valid and we
are literally a "Monkey's Uncle". The only question
left is: "Did God cause that evolution?"
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2328. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 22:19:35 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <1476784a-1031-4d34-9a69-4982b95898b7@x3g2000yqa.googlegroups.com>
Source record: 16252

On Apr 20, 4:07 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > Kraus states that for a helix one should not use wire shorter than two
> > wavelength which I suspect is a substitute calculation for the VF
> > change from a straight radiator.
>
> Because of adjacent coil coupling, it takes
> more wire to achieve the phase shift effect
> of a straight wire.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Which is what I have always maintained, lumped loads are not included
in Maxwell's
equations .
Art

2329. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 22:35:15 UTC
From: JB <nospam@goofball.net>
Message-ID: <DM6Hl.1267$N5.414@nwrddc01.gnilink.net>
Source record: 16253

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:yc6Hl.12514$jZ1.4665@flpi144.ffdc.sbc.com...
> JB wrote:
> > The scientific method doesn't allow us to
> > make assumptions then try to back them up in further investigations.
>
> Sorry, that's exactly what the scientific method allows
> us to do.
>
> 1. Form an hypothesis
> 2. Compare it to reality
> 3. If it doesn't fit, fine tune the hypothesis
> 4. Then goto 1, Else it is true
>
> The fact that we humans share 95% of a chimpanzee's
> DNA is proof enough that evolution is valid and we
> are literally a "Monkey's Uncle". The only question
> left is: "Did God cause that evolution?"
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

OK, so what other primate shows at least 90% Ok so what other organism shares 95% of a human's or Chimpanzee's DNA. And now show that a chimpanzee did not evolve from a human. So maybe you're a monkey's daddy. Maybe they evolved from each other. Of maybe there are similarities that just worked out and perhaps one didn't come from the other at all. Lots of speculation here. Speak for yourself.

"Evolution
Further information: RNA world hypothesis

DNA contains the genetic information that allows all modern living things to function, grow and reproduce. However, it is unclear how long in the 4-billion-year history of life DNA has performed this function, as it has been proposed that the earliest forms of life may have used RNA as their genetic material.[84][96] RNA may have acted as the central part of early cell metabolism as it can both transmit genetic information and carry out catalysis as part of ribozymes.[97] This ancient RNA world where nucleic acid would have been used for both catalysis and genetics may have influenced the evolution of the current genetic code based on four nucleotide bases. This would occur since the number of unique bases in such an organism is a trade-off between a small number of bases increasing replication accuracy and a large number of bases increasing the catalytic efficiency of ribozymes.[98]

Unfortunately, there is no direct evidence of ancient genetic systems, as recovery of DNA from most fossils is impossible. This is because DNA will survive in the environment for less than one million years and slowly degrades into short fragments in solution.[99] Claims for older DNA have been made, most notably a report of the isolation of a viable bacterium from a salt crystal 250-million years old,[100] but these claims are controversial.[101][102]" --from Wiki DNA http://en.wikipedia.org/wiki/DNA

2330. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 23:06:11 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Dd7Hl.1858$b11.959@nwrddc02.gnilink.net>
Source record: 16254

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:1476784a-1031-4d34-9a69-4982b95898b7@x3g2000yqa.googlegroups.com...
>Which is what I have always maintained, lumped loads are not included
>in Maxwell's equations .

CORRECT! he got one right! must be dumb luck.

you are absolutely correct, there are no terms in maxwell's equations
representing lumped loads. HOWEVER, you can use maxwell's equations to
derive the fields that explain how lumped elements work.

2331. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 23:29:27 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4a9f0909-d2e8-4534-b203-da658adf251c@g37g2000yqn.googlegroups.com>
Source record: 16255

On Apr 20, 6:06 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:1476784a-1031-4d34-9a69-4982b95898b7@x3g2000yqa.googlegroups.com...
>
> >Which is what I have always maintained, lumped loads are not included
> >in Maxwell's equations .
>
> CORRECT! he got one right! must be dumb luck.
>
> you are absolutely correct, there are no terms in maxwell's equations
> representing lumped loads. HOWEVER, you can use maxwell's equations to
> derive the fields that explain how lumped elements work.

At the expense of efficiency per unit length

2332. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-20 23:58:58 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <k%7Hl.12524$jZ1.10596@flpi144.ffdc.sbc.com>
Source record: 16256

Cecil Moore wrote:
> Tom Donaly wrote:
>> I don't blame him for plonking you. You're saying that because you
>> fantasized that Roy would make a mistake that Roy would never make,
>> that he also made the same mistake when measuring the delay through a
>> coil.
>
> Sorry Tom, that is a diversion. The subject is NOT the delay
> through a coil. The present subject is the delay through a
> straight wire which is well understood. Please deal with the
> topic at hand. If you refuse, we will know that you are not
> sincere as far as technical facts are concerned.
>
> Please ask Roy to prove that the current on a standing wave
> antenna can be used to measure the delay through a straight
> piece of wire that is x degrees long. If so, exactly how is
> it done?
>
> Roy is NOT omniscient. He definitely made the mistake but
> like most gurus, refuses to admit it. You want to sweep the
> mistake under the rug through diversions but I won't allow
> you to do that. Once you and Roy admit that the current on
> a standing wave antenna cannot be used to calculate delay,
> everything else will become clear.
>
> Please feel free to contact Roy by private email to resolve
> the issue. Roy has, so far, simply stuck his head in the
> sandbags and refused to respond. I'm sure he would have
> advised you to plonk me instead of engaging me, for fear
> of being proved wrong.
>
> Yet, he admitted years ago that the phase of current in a
> standing wave antenna varies by a very small amount. He
> is presently trying to have his cake and eat it too. In
> the process, he (and you as a supporter) are hoodwinking
> the unwashed masses. Shame on all of you.

No, it's not a diversion. You're making up things in your head.
The original controversy involved a claim by you that the coil in
a short, mobile antenna made up for the degrees lost in said
shortened antenna. You were wrong. Now you've changed the subject to
a half wave dipole, attributing to Roy a position he would never take.
That's an old, stupid trick a woman might use in a domestic argument,
but it won't work here. I know you have a pathological need to

win every argument (you ought to talk that over with your analyst) but
that's no reason anyone should waste time agreeing with you.
73,
Tom Donaly, KA6RUH

2333. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 00:16:35 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsj394$8q5$1@news.service.uci.edu>
Source record: 16257

Cecil Moore wrote:
>
> Roy is NOT omniscient. He definitely made the mistake but
> like most gurus, refuses to admit it. You want to sweep the
> mistake under the rug through diversions but I won't allow
> you to do that.

> Roy has, so far, simply stuck his head in the
> sandbags and refused to respond.

> He
> is presently trying to have his cake and eat it too. In
> the process, he (and you as a supporter) are hoodwinking
> the unwashed masses. Shame on all of you.

Anybody get the feeling that Cecil and Art might be the same guy? :-)

http://www.8notes.com/school/riffs/clarinet/laurel_and_hardy.asp

ac6xg

2334. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 00:28:35 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gsj3vj$ck4$1@news.jpl.nasa.gov>
Source record: 16258

Art Unwin wrote:
> I made a helical end fed antenna that is inside a cone shaped
> reflector
> The reflector is made from 1/2" mesh steel with an aluminum foil liner
> and connected to the braid of the feed coax. No baluns are used, just
> direct connections.
> I was surprised to hear signals from the rear!
> I thought that a dish reflector prevented such signals getting to the
> receiver. So what can be wrong with the reflector or can signals get
> reflected back from the frontal area? Antenna is at a 40 foot height
> Any ideas as to what the fault could be?
> Regards
> Art
> I have no experience with dishes thus the question Note, the helical
> antenna does not protrude beyond the dish envelope.
> Art

What's the relative size of "reflector" and helix? (i.e. is the
reflector in the near field of the helix, in which case, you could
easily have waves propagating along the surface of the reflector)

2335. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 01:12:53 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5c18adc9-2394-439e-b859-6a8ab5ebbdc0@c9g2000yqm.googlegroups.com>
Source record: 16259

On Apr 20, 7:16 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> Cecil Moore wrote:
>
> > Roy is NOT omniscient. He definitely made the mistake but
> > like most gurus, refuses to admit it. You want to sweep the
> > mistake under the rug through diversions but I won't allow
> > you to do that.
> > Roy has, so far, simply stuck his head in the
> > sandbags and refused to respond.
> > He
> > is presently trying to have his cake and eat it too. In
> > the process, he (and you as a supporter) are hoodwinking
> > the unwashed masses. Shame on all of you.
>
> Anybody get the feeling that Cecil and Art might be the same guy? :-)
>
> http://www.8notes.com/school/riffs/clarinet/laurel_and_hardy.asp
>
> ac6xg

Very good but he rides a motor bike and I don't ride those vehicles of
death.
Cecil is correct tho, The lumped circuit represents the radiator
length times the velocity factor plus a fudge factor for being a
lumped load.
Art

2336. Re: Smithe Antennas of Laurel MD ?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 01:27:43 UTC
From: Jon Teske <jdteske@comcast.net>
Message-ID: <3m7qu45k4u21lgm2am3649v71vvi5r0djg@4ax.com>
Source record: 16260

On Mon, 20 Apr 2009 13:40:41 -0400, Steve Stone <spfleck@citlink.net>
wrote:

>A friend gave me an unknown (to me) HF antenna.
>Only marking on the 5 foot long white plastic pipe case is "Smithe
>Antennas, Laurel, MD"
>Inside the pipe are about 6 pieces of aluminum tubing , some 1/2 inch
>white plastic pipe, one elbow, a plastic pipe T
>with a small length of coax attached to a pair of "clips", and a set of
>coils stuck in Styrofoam.
>
>No paperwork.
>Anyone familiar with this one?
>
>Steve
>N2UBP

I live near Laurel (12 miles) and used to live in Laurel and I have no
recollection of this. A check of the local phone book reveals
no such entity,

There are a couple of references on the internet to a "Smithe Windom"
which K3MT says he devised. K3MT is now resident in Grear Falls, VA
which like Laurel, MD is in the greater Washington, DC metro area. You
might wish to contact him and do a google on him.

There is a lot of contractor electronics going on in Laurel, MD area
as nearby are located NASA Godard Space Flight Center, Johns
Hopkins Applied Physics Lab, a whole lot of industry connected to the
very nearby National Security Agency, a big ex-Westinghouse radar
manufacturer (don't recall who owns it now, but radar research has
been going on for decades at the facility and even the Patuxent
Research Center which is a big facility for tracking wildlife
migrations among many other things. They also raise whooping crane
chicks and other exotic wild and endangered birds and use electronic
tracking techniques.

So whether this is a big time outfit, or something made in someones
garage, there is plenty of potential for something like that antenna
to be made in this area.

Jon W3JT

2337. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 01:43:16 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5dc733a6-2fdc-48c2-9337-60952bed53eb@h28g2000yqd.googlegroups.com>
Source record: 16261

On Apr 20, 7:28 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> Art Unwin wrote:
> > I made a helical end fed antenna that is inside a cone shaped
> > reflector
> > The reflector is made from 1/2" mesh steel with an aluminum foil liner
> > and connected to the braid of the feed coax. No baluns are used, just
> > direct connections.
> > I was surprised to hear signals from the rear!
> > I thought that a dish reflector prevented such signals getting to the
> > receiver. So what can be wrong with the reflector or can signals get
> > reflected back from the frontal area? Antenna is at a 40 foot height
> > Any ideas as to what the fault could be?
> > Regards
> > Art
> > I have no experience with dishes thus the question Note, the helical
> > antenna does not protrude beyond the dish envelope.
> > Art
>
> What's the relative size of "reflector" and helix? (i.e. is the
> reflector in the near field of the helix, in which case, you could
> easily have waves propagating along the surface of the reflector)

The helix is four foot long and a foot diameter. The base of the
reflector is 1.5 feet
with a 45 degree angle. I have had the helix 0.5 feet shorter and 0.5
feet longer with similar results.On re examination of the antenn I now
see that the ground lead of the radiator is connected to the inside of
the reflector at a half way point and the coax
ground is connected at the base of the reflector. I think I will
change that ground connection to a common point.
Regards
Art

2338. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 02:22:21 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <YciHl.59218$_R4.4760@newsfe11.iad>
Source record: 16262

```
"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gsicff$bk28$1@tr22n12.aset.psu.edu...
> Brian Oakley wrote:
>>
>> "Michael Coslo" <mjc5@psu.edu> wrote in message
>> news:gsa4ja$ec0s$1@tr22n12.aset.psu.edu...
>>> JB wrote:
>>>> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in message
>>>> news:G2zFl.27061$YU2.26905@nlpi066.nbdc.sbc.com...
>>>>> Brian Oakley wrote:
>>>>>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>>>>>
>>>> Darwin makes quite a leap from finches to "primordial ooze".
>>>
>>> He makes no such leap.
>>
>> No that was left to the pseudointellectuals.
>>
>>>
>>>
>>> Even in the
>>>> simplest of life forms an orchestra of machinery sustains the life. If
>>>> any
>>>> piece is missing, the life can't be supported.
>>>
>>>
>>> No. There are many processes that make up portions of life forms that
>>> are quite complex, yet still function if portions go missing the Blood
>>> Clotting cascade is one such example.
>>
>> But those processes are complex in themselves and will fail if reduced
>> any further.
>>
>>>
>>> The eye has been a poster child of Creationists, yet it is at root a
>>> reaction to an energy input. There is a clear progression from simple
>>> bacterial to raptor vision (we humans do not have the "best eyes" in
>>> creation)
>>
>> But that doesnt prove the human eye evolved from one a bacteria had.
>> Even that sensory cell that the bacteria had would cease to function if
>> the components of that cell were not all present and functioning.
>>
>>>
```

>>>
>>>> So to believe that all
>>>> sprang up by accident, ready to reproduce from a rock seems to be an
>>>> unsupported religious belief in itself.
>>>
>>> There is a straw man for sure. Life such as it is never sprung from a
>>> rock. A lot of things had to happen first.
>>
>> But it had to. If there were something there that was strictly mineral
>> that somehow, some way, in some miraclulous way turned into a living
>> organism, then it still originated from minerals.
>>>
>>>
>>>> But the Atheist will say this is
>>>> proof there is no God and leave it at that.
>>>
>>> Straw man again. Atheism is not in any way shape or form a requirement
>>> to support the idea that evolution is the method in which life forms
>>> adapt to their surroundings. There is no proof that there is no God.
>>
>> He didnt say that atheism is a requirement. He said that atheists will
>> say that.
>>
>>>
>>>
>>>
>>>> Seems unscientific at best, but
>>>> then Hitler, Marx, The Columbine Kids and Manifest Destiny all embraced
>>>> it.
>>>> Who's next?
>>>
>>>
>>> Good heavens JB!. Could you provide the citations about the Columbine
>>> kids views on Evolution? Shame. May they rest in peace.
>>
>> This might interest you:
>> Eric -- Black fatigue-style pants, a white T-shirt inscribed with the
>> words Natural Selection on the front, black baseball cap with the letters
>> "KMFDM" on it (worn backwards), and a black trenchcoat (duster). Wore a
>> black fingerless glove on his right hand and black combat boots.
>>
>>>
>>> Hitler was interesting here are a few quotes:
>>>
>>> "My feelings as a Christian points me to my Lord and Savior as a
>>> fighter."
>>>
>>> Munich, 1922
>>>
>>> "We are a people of different faiths, but we are one. Which faith

>>> conquers the other is not the question; rather, the question is whether
>>> Christianity stands or falls.... We tolerate no one in our ranks who
>>> attacks the ideas of Christianity... in fact our movement is Christian.
>>> We are filled with a desire for Catholics and Protestants to discover
>>> one another in the deep distress of our own people."
>>>
>>> Passau, 1928
>>
>> Read "Hitlers Cross" by Lutzer to understand that Hitler was a
>> manipulator, especially of the Church. Also read the following:
>>
>> Matthew 7:15-23, "Beware of false prophets, which come to you in sheep's
>> clothing, but inwardly they are ravening wolves. Ye shall know them by
>> their fruits. Do men gather grapes of thorns, or figs of thistles? Even
>> so every good tree bringeth forth good fruit; but a corrupt tree bringeth
>> forth evil fruit. A good tree cannot bring forth evil fruit, neither can
>> a corrupt tree bring forth good fruit. Every tree that bringeth not
>> forth good fruit is hewn down, and cast into the fire. Wherefore by
>> their fruits ye shall know them. Not every one that saith unto me, Lord,
>> Lord, shall enter into the kingdom of heaven; but he that doeth the will
>> of my Father which is in heaven. Many will say to me in that day, Lord,
>> Lord, have we not prophesied in thy name? and in thy name have cast out
>> devils? and in thy name done many wonderful works? And then will I
>> profess unto them, I never knew you: depart from me, ye that work
>> iniquity."
>>>
>>> I guess he didn't care for the Sermon on the Mount!
>>
>> That quote is from the same One who gave the Sermon on the Mount. Hitler
>> was NOT a Christian.
>
> There are many people today who profess to be Christains, yet most of
> their beliefs are straight old testament.

Thats just the point. Not everyone that claims to be a Christian is a true
believer in Christ.

>
>
>>>
>>> And the roots of Manifest destiny can be traced John Winthrop's "City
>>> upon a Hill" sermon in 1630.
>>>
>>> If you choose to believe that evolution is false, that is fine, but we
>>> are at the point in the argument where the statement is sufficient
>>> argument of disbelief. There is too much evidence supporting evolution,
>>> and no science disproving it.
>>
>> If you would be intellectually honest, you would see that there is a lot
>> of evidence that goes against evolution.
>>

>>> It takes almost as much faith to not believe in evolution now as it does
>>> to believe in a flat earth.
>>
>> An ad hominem attack.
>
> No, it isn't ad hominum.

Um, yes, it is.

>Put another way, there is a lot of evidence that points to the theory of
>evolution as fact.

There is lots of evidence that points out that it is impossible as well.

>Things change. The related disciplines that verify the concept are likewise
>wrong if Evo is.

That statement is not necessarily correct. Just because evolution theory
uses other diciplines to try to prove itself in no way makes evolution
correct nor does it render these other disciplines incorrect.

>All it will take to prove evolution wrong is if say modern humans are found
>in very early sediments along with the critters we've found there to date.

I know of one instance where this was documented.

>But the evidence shows a forward movement of time, and never backwards.
>Modern animals only appear in recent times. Ancient ones show a
>terrmination.

Not all of them.

>Those anomalies such as animals that haven't changed much, or
>"rediscovered" animals once thought extinct are just wonderous additions to
>life.
>
>
>>>
>>> Creationists have unwittingly be one of the greatest forces in research
>>> in evolution, as their searching for "faults" in the theory have served
>>> as a spur to scientists and research.
>>>
>>> Too often, Creationists assume the binary decision, in that anything
>>> that is not presently explained by science relating to evolutionary
>>> processes means that Evolution is wrong, so the only other choice is
>>> Creationism.
>>
>> Ok, what other mechanisms do you think there are? Aliens??
>
> Ohh careful there. Creationists who use the weak form of Intelligent
> design claim the possibility of aliens creating life here.

So do a number of evolutionists.

>
> But the entire argument in that regard is specious anyhow. Evolution has
> not one single thing to say about the ultimate beginning of life. It only
> deals with what happens afterward.

It attempts to, but it doesnt do a good job. Im guessing evolutionists have
found all those transitionary life forms they say are out there?

>
>
>
>>> But seriously the religious argument can be summed up in a satisfactory
>>> manner by saying "I do not believe in evolution, I have faith that God
>>> created everything in it's present form." And that is okay. I respect
>>> your faith.
>>
>> But you pretend that it is a blind faith, and that is also intellectually
>> dishonest. There are many reasons for that faith, and intelligent design
>> is a very good one.
>
> Okay, you have no blind faith? Do a lot of investigating of the physics
> and chemistry and paleontology. Come up with experiments and refute it.

You left out mathmatical probabilities, as well as the failures of
chemistry, palentology, and archeology.

>
> Intelligent design has performed no science, no peer reviewed research,
> with the exception of one report that was immediately refuted.

Actually peer-reviewed science by ID scientists is coming out more and more.
Google it.

"The article is titled "The Origin of Biological Information and the Higher
Taxonomic Categories." The conclusion of the article, in brief, is that
design explains things that natural selection cannot. Proceedings is a
peer-reviewed publication. According to the then-editor, the three reviewers
were all faculty members of respected universities and research
institutions. The editor also stated that, while the reviewers did not agree
with the conclusions, they found nothing scientifically invalid in the
reasoning."

http://www.allaboutscience.org/intelligent-design-peer-reviewed-faq.htm

>
> Instead, the Intelligent design folks want to debate. Strangely enough,
> that debate is envisioned as proving something. If evolution loses the
> debate, is there no evolution. If it wins, is their no God?

For the former, no. For the latter, yes, because the premise of evolution is
that God is not necessary for the diversity of life on this planet.

>
> Here's a good idea. Instead of taking peoples money and trying to get ID

> insertd into schools curriculum, take that money and do good research!

Well, the research is out there. It seems to me that the darwinists dont
want to even allow their science to be scrutinized.

>
> Most distressing howevwer is the duality of the IDer's approach. the
> switching between the weak ID that is brought out when trying to sneak
> their belief into school science programs, (teach the controversy) and the
> very same people saying that they want to replace the system as taught now
> with science that is in alignment with the Christian faith.

I dont know of anyone that wants to replace it with Christian "science". On
the contrary, ID scientists welcome the side by side comparison of the
facts, and let the student do his own critical thinking and see which theory
is more plausable.

>
> I don't think God needs or wants anyone lying for him.

No, but He put us here to put things into the light so they can be
scrutinized, not to descriminate as to what people can and cannot study.

>
>
>>>
>>> But insisting on s literal translation of the two different accounts of
>>> creation in Genesis,
>>
>> Ther are no two different accounts. Its one in the same account. The
>> Bible is not always cronological.
>
> Don't know what to say here, Brian. Some times it's literal, some times
> it's not, and sometimes we just pick and choose.

No, sometimes you have to read it for what it is, and quit reading things
into it, such as "two different accounts". Anyone that is truly
intellectually honest can see that it is the same account.

>
>
>>> is just as wrong as the flat earth of four corners,
>>
>> Ancient civilization knew the earth was spherical. The Egyptians
>> understood this.
>
> The spherical earth concept started around 330 B.C. It was well known
> during the middle ages. Oddly enough the resurgent Flat Earth, promoter,
> Samuel Rowbotham, came up with his "Zoetitic Astronomy" system, in around
> the mid 1800's which depended on his particular interpretation of the
> Bible.

Lets mark the words "particular interpretation"

>Interestingly enough, in the 1800's he engaged in public debates with
>leading scientists. One doesn't prove the other, of course, but it's
>interesting to see that the more things change, the more they remain the
>same.
>
> I really don't want to belabor the group with much more of this, we need
> to get back to discussions of Art's antenna designs.

I love how people like to voice their opinion, then say, wait, we cant talk
about this anymore here.

>
> All I would say is that I would suggest some personal research, and repeat
> that evolution doesn't have a thing to do with origin, so just perhaps,
> there are people out there who might want to manipulate others with a red
> herring of an issue.

Evolution does speak to origin, in the sense that it contradicts the
Biblical account. Even evolutionists will espouse a theory of origin, what
ever they might believe. Again, the main hinge of evolution is the
transitionary forms of life, which are glaringly missing. Examine both
theories of origin, and see which theory fits the facts better. It wouldnt
be evolution. And if evolution is so air tight, I dont think they would
have a problem at all with allowing ID into the arena, especially since
evolution is so reproducable in the lab. Oh wait, it isnt! Hummm. I guess
its a theory still. Along with ID.

>
> - 73 de Mike N3LI -
>

2339. Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 12:47:09 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <gfjHl.8581$im1.2480@nlpi061.nbdc.sbc.com>
Source record: 16263

Tom Donaly wrote:

I'm going to break my reply up into two pieces. First I
will address the actual number of degrees occupied by
a loading coil.

> No, it's not a diversion. You're making up things in your head.
> The original controversy involved a claim by you that the coil in
> a short, mobile antenna made up for the degrees lost in said
> shortened antenna.

Sorry Tom, that is a false statement. Please stop misquoting
me. The coil occupies some number of degrees but not nearly
enough to make up for all of the "lost" degrees which are not
lost at all as I have demonstrated in the past and will do so
again here. Following is a *resonant open-circuit 1/4WL stub*
that is electrically 90 degrees long yet it is only physically
38 degrees long.

Z1
---19 deg 450 ohm feedline---+---19 deg 50 ohm feedline---open
-j145

The 450 ohm feedline occupies 19 degrees of the stub. The 50
ohm feedline occupies 19 degrees of the stub. The stub is
physically 38 degrees long total. It needs another 52 degrees
to make it electrically 1/4WL long and resonant. The "lost"
52 degrees is *not lost at all* and occurs abruptly at the
junction point '+'. Call the impedance at that point Z1. The
52 degrees of phase shift occurs between Z1/450 and Z1/50.
Microsmith says that Z1 = -j145.

Z1/450 = -j145/450 = -j0.3222

Z1/50 = -j145/50 = -j2.9

Take a look at the number of degrees between -j0.3222 and
-j2.9 on a Smith Chart. Surprise! There is the "lost" 52
degrees. Those degrees are not lost at all and are just
a fact of physics concerning phase shifts at an impedance
discontinuity.

Now if we multiply the stub impedances by 10, we have
a reasonable facsimile of a resonant base-loaded monopole.

19 deg coil
////////////////-----19 deg ~500 ohm stinger-----open

Z0= ~4500 ohms
VF= ~0.02

The loading coil occupies 19 degrees and the stinger occupies 19 degrees. There is a 52 degree phase shift at the coil to stinger junction. There are no "lost" degrees. 19+52+19 = 90 degrees.

There were (are) two sides to the argument.

1. The coil furnishes the "lost" degrees.
FALSE!
The coil furnishes some number of degrees but not nearly enough to make up for the phase shift at the coil/stinger junction.

2. The coil supplies almost zero degrees.
FALSE!
The phase shift at the coil/stinger junction is not enough to account for the "lost" degrees. The magnitude of that phase shift is easily calculated on a Smith Chart.

Please skip the ad hominem attacks and use the laws of physics and mathematics to prove me wrong.
--
73, Cecil, w5dxp.com

2340. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 12:56:35 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <MkjHl.5860$Lr6.5343@flpi143.ffdc.sbc.com>
Source record: 16264

Tom Donaly wrote:
> You were wrong. Now you've changed the subject to
> a half wave dipole, attributing to Roy a position he would never take.

On the contrary, Roy described his procedure in detail. I
then applied Roy's exact procedure to a 1/2WL dipole to see
if the procedure is valid for finding the delay through a
straight wire. Just as I suspected, the change in the phase
of the current is mostly unrelated to the number of degrees
in the antenna wire. Therefore, Roy's procedure is invalid and
cannot be used to measure the delay through a loading coil.

He made very accurate, very meaningless measurements - as did
w8ji. The primary current on a monopole, loaded or not, is of
the form I = Imax*cos(kx)*cos(wt). The amplitude is solely
a function of kx. The phase is solely a function of wt.
At any instant of time, the phase is the same all up and down
the wire including through the loading coil. Roy once verified
that is what EZNEC reports.

So the question remains: How did Roy use the current on a
standing-wave antenna, which doesn't change phase relative to
any other point on the entire antenna, to calculate the delay
through a loading coil or through a wire? The phase at the
bottom of the coil and the phase at the top of the coil are
always the same no matter what the delay through the coil.
Those phases are the same as the feedpoint phase and the phase
close to the tip top of the antenna within a very few degrees.

> That's an old, stupid trick a woman might use in a domestic argument,
> but it won't work here. I know you have a pathological need to
> win every argument (you ought to talk that over with your analyst) but
> that's no reason anyone should waste time agreeing with you.

Hurling ad hominem attacks will not help you in a technical
argument, Tom. Please use electronic theory and mathematics
to prove me wrong.

Will Rogers said, "Be sure you are right and then go on ahead."
I'm sure I am right.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2341. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 12:58:37 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GmjHl.5861$Lr6.1165@flpi143.ffdc.sbc.com>
Source record: 16265

Jim Kelley wrote:
> Anybody get the feeling that Cecil and Art might be the same guy? :-)

A humorous diversion instead of a technical argument -
usually the sign that one realizes that one is wrong.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2342. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 13:06:36 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <9ujHl.5863$Lr6.2481@flpi143.ffdc.sbc.com>
Source record: 16266

Brian Oakley wrote:
> Evolution does speak to origin, in the sense that it contradicts the
> Biblical account.

Sorry, but that is false. If each "day" during the
creation is about 1.5 billion years long, there
is no disagreement between The Bible and evolution
engineered by God.

Genesis 1:1; In the beginning, God created the
Big Bang.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2343. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 14:15:59 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xykHI.25117$c45.19684@nlpi065.nbdc.sbc.com>
Source record: 16267

Cecil Moore wrote:

For anyone interested in an in-depth look at the
subject of loading coils, here is an excellent
reference.

http://www.g3ynh.info/zdocs/magnetics/part_1.html

"When modeling and using inductive devices, it is
important to be aware that the concept of lumped
inductance is only strictly applicable at low
frequencies."

"In the high-frequency region, it is no longer possible
to treat the coil as though its reactance is purely
inductive; the reason being that a wave emerging from
the coil is now significantly delayed, and therefore
has a phase which differs from its phase on entry."
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2344. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 16:56:58 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <HVmHl.27478$yr3.7221@nlpi068.nbdc.sbc.com>
Source record: 16268

Cecil Moore wrote:
> Tom Donaly wrote:
>
> I'm going to break my reply up into two pieces. First I
> will address the actual number of degrees occupied by
> a loading coil.
>
>> No, it's not a diversion. You're making up things in your head.
>> The original controversy involved a claim by you that the coil in
>> a short, mobile antenna made up for the degrees lost in said
>> shortened antenna.
>
> Sorry Tom, that is a false statement. Please stop misquoting
> me. The coil occupies some number of degrees but not nearly
> enough to make up for all of the "lost" degrees which are not
> lost at all as I have demonstrated in the past and will do so
> again here. Following is a *resonant open-circuit 1/4WL stub*
> that is electrically 90 degrees long yet it is only physically
> 38 degrees long.
>
> Z1
> ---19 deg 450 ohm feedline---+---19 deg 50 ohm feedline---open
> -j145
>
> The 450 ohm feedline occupies 19 degrees of the stub. The 50
> ohm feedline occupies 19 degrees of the stub. The stub is
> physically 38 degrees long total. It needs another 52 degrees
> to make it electrically 1/4WL long and resonant. The "lost"
> 52 degrees is *not lost at all* and occurs abruptly at the
> junction point '+'. Call the impedance at that point Z1. The
> 52 degrees of phase shift occurs between Z1/450 and Z1/50.
> Microsmith says that Z1 = -j145.
>
> Z1/450 = -j145/450 = -j0.3222
>
> Z1/50 = -j145/50 = -j2.9
>
> Take a look at the number of degrees between -j0.3222 and
> -j2.9 on a Smith Chart. Surprise! There is the "lost" 52
> degrees. Those degrees are not lost at all and are just
> a fact of physics concerning phase shifts at an impedance
> discontinuity.
>
> Now if we multiply the stub impedances by 10, we have

> a reasonable facsimile of a resonant base-loaded monopole.
>
> 19 deg coil
> ///////////////-----19 deg ~500 ohm stinger-----open
> Z0= ~4500 ohms
> VF= ~0.02
>
> The loading coil occupies 19 degrees and the stinger
> occupies 19 degrees. There is a 52 degree phase shift
> at the coil to stinger junction. There are no "lost"
> degrees. 19+52+19 = 90 degrees.
>
> There were (are) two sides to the argument.
>
> 1. The coil furnishes the "lost" degrees.
> FALSE!
> The coil furnishes some number of degrees but not
> nearly enough to make up for the phase shift at
> the coil/stinger junction.
>
> 2. The coil supplies almost zero degrees.
> FALSE!
> The phase shift at the coil/stinger junction is not
> enough to account for the "lost" degrees. The magnitude
> of that phase shift is easily calculated on a Smith Chart.
>
> Please skip the ad hominem attacks and use the laws
> of physics and mathematics to prove me wrong.
> --
> 73, Cecil, w5dxp.com

I don't have to prove you wrong, Cecil, you have to prove yourself
right since you came up with this novel way of explaining antenna
behavior. A false analogy won't prove you right, in any case. Anyway,
this has all been chewed over before, and you've already used your hick
style argumentative techniques to little avail. It's too bad some
amateurs take you seriously enough to believe this garbage. They'd do
a lot better, and know a lot more if they'd learn the techniques and
mathematics found in innumerable books on the subject.
73,
Tom Donaly, KA6RUH

2345. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 17:08:32 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gskuif$a61$1@news.service.uci.edu>
Source record: 16269

Cecil Moore wrote:
> Jim Kelley wrote:
>> Anybody get the feeling that Cecil and Art might be the same guy? :-)
>
> A humorous diversion instead of a technical argument -
> usually the sign that one realizes that one is wrong.

In this case it's a sign that you are wrong - and humorless. :-)

ac6xg

2346. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 17:26:20 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gskvjs$b830$1@tr22n12.aset.psu.edu>
Source record: 16270

Cecil Moore wrote:
> Michael Coslo wrote:
>> Put another way, there is a lot of evidence that points to the theory
>> of evolution as fact.
>
> Rhetorical question: What if evolution is just
> one of the tools in God's toolbox?

Of no consequence. There is no reason that an ominesccnt deity couldn't
make things, then allow them to change in response to their surroundings.

Evolution makes no claims to origins.

- 73 de Mike N3LI -

2347. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 17:30:00 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1inHl.16788$D32.15693@flpi146.ffdc.sbc.com>
Source record: 16271

Tom Donaly wrote:
> I don't have to prove you wrong, Cecil, you have to prove yourself
> right since you came up with this novel way of explaining antenna
> behavior.

I have offered a proof with which I detect no technical
problems and nobody has offered any valid technical argument
against what I have presented. My argument is not novel
and is based on sound physics as presented by the technical
references I have provided.

What I find difficult to understand is the sandbagging
going on in defense of an old wives' tale.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2348. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 17:33:44 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <wlnHl.16791$D32.6277@flpi146.ffdc.sbc.com>
Source record: 16272

Jim Kelley wrote:
> In this case it's a sign that you are wrong -

Jim, please feel free to offer some valid technical
proof that what I have presented is wrong. Most of
what I have presented is from my college textbook,
"Fields and Waves ...", by Ramo and Whinnery.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2349. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 18:24:05 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsl305bmt1@news.service.uci.edu>
Source record: 16273

Cecil Moore wrote:
>
> What I find difficult to understand is the sandbagging
> going on in defense of an old wives' tale.

Your description of the phenomenon is exactly that. Your claims about standing wave current are unadulterated bull crap. Your understanding of wave phenomena is significantly flawed in certain respects. You refuse to recognize where you have erred, and you fend off criticism by making ludicrous accusations of other people. With all due respect your behavior is absolutely pathological, which unfortunately, tend to negate the value in any valid arguments you might otherwise make.

Although some people do occasionally attempt to correct you where you have made a mistake (others have given up trying), they are not 'out to get you'. Try to keep it all real and in perspective, OM.

jk ac6xg

2350. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 20:17:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <mRpHl.8614$im1.4412@nlpi061.nbdc.sbc.com>
Source record: 16274

Jim Kelley wrote:
> Your claims about
> standing wave current are unadulterated bull crap.

You are certainly free to produce the physics and
mathematics to prove your assertion. Where is it?

I have provided equations and references. Please
tell me exactly which ones you dispute so I can
quote them.

> Although some people do occasionally attempt to correct you where you
> have made a mistake ...

The only mistakes of which I have been accused
are poor choices of words to which I plead guilty.
Nobody has accused me of invalid equations.

What you are experiencing is the dumbing down of
technical people where the lumped circuit model
and "mashed potatoes" model of energy in a transmission
line has taken over.

The equation for standing waves has been quoted
from "Optics", by Hecht; "... Optics", by Born and
Wolf, "Fields and Waves ...", by Ramo and Whinnery,
"Antennas ...", by Kraus, and "Antenna Theory", by
Balanis.

I strongly suspect you are capable of understanding
those references.

The following two equations are equivalent and are
the equations for pure standing wave current as
exists as the primary current on standing wave
antennas.

I(x,t) = 2(V+/Z0)cos(kx)*cos(wt)

I(x,t) = (V+/Z0)[e^(jwt-kx) - e^(jwt-kx)]

If you cannot look at those equations and see that
the phase is unchanging relative to all points on
the wire, you need to go back to school and
hone your math skills.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2351. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 21:02:53 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gslc9s$f2j$1@news.service.uci.edu>
Source record: 16275

Cecil Moore wrote:
> Tom Donaly wrote:

>> No, it's not a diversion. You're making up things in your head.
>> The original controversy involved a claim by you that the coil in
>> a short, mobile antenna made up for the degrees lost in said
>> shortened antenna.
>
> Sorry Tom, that is a false statement. Please stop misquoting
> me.

I have the same recollection as Tom.

> The loading coil occupies 19 degrees and the stinger
> occupies 19 degrees. There is a 52 degree phase shift
> at the coil to stinger junction. There are no "lost"
> degrees. 19+52+19 = 90 degrees.
>
> There were (are) two sides to the argument.
>
> 1. The coil furnishes the "lost" degrees.
> FALSE!
> The coil furnishes some number of degrees but not
> nearly enough to make up for the phase shift at
> the coil/stinger junction.

> 2. The coil supplies almost zero degrees.
> FALSE!
> The phase shift at the coil/stinger junction is not
> enough to account for the "lost" degrees. The magnitude
> of that phase shift is easily calculated on a Smith Chart.

Or, maybe

3. A less than quarter wave antenna is less than 90 degrees long.

ac6xg

2352. FS CDE AR-22 Rotor and Control

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 21:34:45 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <34rHl.15233$pr6.14462@flpi149.ffdc.sbc.com>
Source record: 16276

FS: CDE AR-22 light duty rotator and controller. Works good. Comes with lower mast mounting bracket and an extra AR-22 Rotor for parts. Has one bolt broken off in bottom of rotor. Price is $125 shipped in CONUS, Thanks, Charlie Hugg, K5MBX

2353. FS Tailtwister Lower Mast Bracket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 21:41:26 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <larHl.15234$pr6.11195@flpi149.ffdc.sbc.com>
Source record: 16277

FS: Hy-Gain Tailtister lower mast mounting bracket. Very nice shape. This is the big heavy duty one for big antennas. All clamps and bolts. Price $50 shipped CONUS. Thanks, Charlie Hugg, K5MBX

2354. TEST

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 21:45:49 UTC
From: MultiReader@invalid.invalid
Message-ID: <ggfsu45iaja8je597j2m7fdro1og726ckl@4ax.com>
Source record: 16278

TEST

2355. FS Ham IV Lower Mast Bracket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 21:47:28 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <%frHI.15238$pr6.9785@flpi149.ffdc.sbc.com>
Source record: 16279

FS: Ham IV and lighter duty lower mast mounting bracket. All bolts and clamps. Price is $25 shipped CONUS. Thanks, Charlie Hugg, K5MBX

2356. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 21:57:39 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <a2a28a2d-c49c-43e6-bd26-e312ef82f2ae@u10g2000vbd.googlegroups.com>
Source record: 16280

As a newcomer to the group I'm hesitant to join a discussion which has been running for almost 200 postings, and where the protagonists understand the topic in much greater depth than I do. But here goes ....

My starting assumption is that EZNEC can model a helical inductor reasonably accurately, with the exception of the increase in AC resitance caused by proximity effects.

If I take an EZNEC model of a coil - 40 turns #14 wire, 6" diameter, 12" long - I discover it has a characteristic impedance of about 2550 ohms at a self-resonant frequency of around 6.1 MHz. If I use it as the base loading coil for a short vertical antenna with a 6ft whip above it, I notice that EZNEC shows a difference in the current at the top of the coil compared with the bottom of about 0.69:1, and a resonant frequency of 3.79MHz.

I then look to see which of the various models might reasonably predict the values observed in the EZNEC modelling.

Clearly, a simple lumped-element inductor doesn't get close. I've read various web pages and postings which argue qualitatively that things like "distributed capacitance" might explain some of the observations, but as yet I've seen no quantitative analysis which attempts to predict the numbers.

In contrast, I look at the work of Corum & Corum and of G3YNH who insist that "coils are best regarded as transmission lines", and I get quantitative results which closely match the EZNEC results. For my example coil, I get a self resonant frequency of 6.3MHz (cf 6.1MHz), a characteristic impedance of 2792 ohms (cf 2550 ohms) and an Iout/Iin ratio of 0.72 (cf 0.69)

Not only that, the transmission line model predicts an inductive reactance very close to that needed for antenna resonance at 3.79 MHz

I'm a simple soul, and I don't pretend to understand all the maths involved; I merely observe that the transmission line approach delivers "hard numbers" that closely match those predicted by EZNEC. I've yet to see another model get close. So, until I do, I guess I have to favour the approach of Corum & Corum, G3YNH et al.

If someone can show me similarly accurate results from an approach based on a lumped-element model, I'd be interested to see them.

Steve G3TXQ

2357. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 22:04:09 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <rprHl.14984$hc1.2846@flpi150.ffdc.sbc.com>
Source record: 16281

Jim Kelley wrote:

> I have the same recollection as Tom.

If you do, it was from many years ago when I was young
and foolish. :-) For the past 5 years, at least, I have
been telling everyone that both sides of the argument
are wrong as rail-arguments usually are. The facts lie
somewhere in between the two rails.

> Or, maybe
> 3. A less than quarter wave antenna is less than 90 degrees long.

Obviously true for the physical length. Just as obviously
impossible for the electrical length. If you understand
that the feedpoint is purely resistive and
Zfp = (Vfor-Vref)/(Ifor+Iref) then you will understand
that the antenna *must* be electrically an interger
multiple of 90 degrees long.

If you need help with that concept, let me know. If you
are embarrassed to discuss it in public, send me an email.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2358. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 22:29:25 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <EK2dndQlOoJa1XPUnZ2dnUVZ_rydnZ2d@posted.easystreetonline>
Source record: 16282

steveeh131047 wrote:
> As a newcomer to the group I'm hesitant to join a discussion which has
> been running for almost 200 postings, and where the protagonists
> understand the topic in much greater depth than I do. But here
> goes ....
>
> My starting assumption is that EZNEC can model a helical inductor
> reasonably accurately, with the exception of the increase in AC
> resitance caused by proximity effects.

Yes, that's correct. Fortunately, proximity effect is generally
negligible unless the turn spacing is very close.

> If I take an EZNEC model of a coil - 40 turns #14 wire, 6" diameter,
> 12" long - I discover it has a characteristic impedance of about 2550
> ohms at a self-resonant frequency of around 6.1 MHz.

A single conductor doesn't have a characteristic impedance -- it's the
impedance between the two conductors of a transmission line. You can
measure a characteristic impedance between, say, a coil and ground, but
its value depends on the spacing between the two. If the coil is tilted
with respect to the ground, the impedance of this two-conductor system
will change with the position along the coil.

> If I use it as
> the base loading coil for a short vertical antenna with a 6ft whip
> above it, I notice that EZNEC shows a difference in the current at the
> top of the coil compared with the bottom of about 0.69:1, and a
> resonant frequency of 3.79MHz.
>
> I then look to see which of the various models might reasonably
> predict the values observed in the EZNEC modelling.
>
> Clearly, a simple lumped-element inductor doesn't get close. I've read
> various web pages and postings which argue qualitatively that things
> like "distributed capacitance" might explain some of the observations,
> but as yet I've seen no quantitative analysis which attempts to
> predict the numbers.

It's difficult or impossible to do with lumped elements. A vertical
loading coil has not only series inductance, but also capacitance to
ground or, in the case of a dipole, to the other half of the dipole.
This capacitance varies along the coil, being greatest at the bottom and
increasing toward the top. (This is the cause of the varying Z0 I
mentioned above.) But there's also a delay associated with the
capacitance which complicates the interaction to the point where you

can't easily model it with lumped elements. And the coil radiates, which alters its current distribution.

That said, a lumped inductor makes a fairly decent model for a physically very small (in terms of wavelength) toroidal loading coil, since it has minimal capacitance to ground and a minimal amount of radiation. I actually built a vertical, loaded it with one, and made careful measurements which I posted on this newsgroup several years ago. Cecil is still complaining about it.

The displacement current flowing through those capacitances, not some "effective degrees of antenna" phenomenon, is what causes the current along a solenoidal loading coil to vary. If you reduce the capacitances to a low value as I did in my measurement, the currents at the ends become nearly the same, which is what the measurement showed.

> In contrast, I look at the work of Corum & Corum and of G3YNH who
> insist that "coils are best regarded as transmission lines", and I get
> quantitative results which closely match the EZNEC results. For my
> example coil, I get a self resonant frequency of 6.3MHz (cf 6.1MHz),
> a characteristic impedance of 2792 ohms (cf 2550 ohms) and an Iout/Iin
> ratio of 0.72 (cf 0.69)
>
> Not only that, the transmission line model predicts an inductive
> reactance very close to that needed for antenna resonance at 3.79 MHz

You've kind of lost me here, since I can't see how you've replaced a two-terminal coil with a four-terminal transmission line. And a transmission line doesn't radiate, so that sometimes-important property of a solenoidal coil is ignored.

> I'm a simple soul, and I don't pretend to understand all the maths
> involved; I merely observe that the transmission line approach
> delivers "hard numbers" that closely match those predicted by EZNEC.
> I've yet to see another model get close. So, until I do, I guess I
> have to favour the approach of Corum & Corum, G3YNH et al.

Be sure to test the approach with other configurations, such as longer and shorter coils, frequencies well away from resonance, etc. to find the limits of applicability of the approach. Does it correctly predict the field strength? Efficiency? Bandwidth?

> If someone can show me similarly accurate results from an approach
> based on a lumped-element model, I'd be interested to see them.

Me, too. The thing which prompted me to add the automated helix generation feature to EZNEC was the realization that lumped loads so often did a poor job of simulating solenoidal loading inductors.

Roy Lewallen, W7EL

2359. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 22:49:37 UTC
From: Dave <noone@nowhere.com>
Message-ID: <54sHl.2058$b11.1070@nwrddc02.gnilink.net>
Source record: 16283

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:4a9f0909-d2e8-4534-b203-da658adf251c@g37g2000yqn.googlegroups.com...

>At the expense of efficiency per unit length

and what does that refer to?? i don't think i've ever heard of something
with those units... they really don't make any sense.

2360. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 23:00:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <TdsHl.12589$jZ1.9720@flpi144.ffdc.sbc.com>
Source record: 16284

Roy Lewallen wrote:
> A single conductor doesn't have a characteristic impedance --

On the contrary, that is a false statement. In my
"Electronic Equations Handbook", it gives the
characteristic impedance for a single horizontal
wire about ground. Obviously, ground is the missing
conductor. I believe that equation is also given in
ARRL publications. A horizontal #14 wire 30 feet
above ground has a characteristic impedance very
close to 600 ohms. Since all of our antennas are
located a finite distance from ground, your assertion
seems ridiculous.

> I actually built a vertical, loaded it with one, and made
> careful measurements which I posted on this newsgroup several years ago.
> Cecil is still complaining about it.

Yes, because the current on a standing wave antenna
doesn't change phase through the coil no matter what
the delay through the coil. EZNEC agrees with me.
Here is what EZNEC says about the current through
90 degrees of antenna:

EZNEC+ ver. 4.0
thin-wire 1/4WL vertical 4/21/2009 5:50:11 PM
--------------- CURRENT DATA ---------------
Frequency = 7.29 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97651 -0.42
3 .93005 -0.83
4 .86159 -1.19
5 .77258 -1.50
6 .66485 -1.78
7 .54059 -2.04
8 .40213 -2.28
9 .25161 -2.50
10 Open .08883 -2.71

How do you explain the fact that the current changes by
less than 3 degrees in 90 degrees of antenna? How can you
possibly measure the delay through a coil, or through a
wire, using a current like that?

> The displacement current flowing through those capacitances, not some
> "effective degrees of antenna" phenomenon, is what causes the current
> along a solenoidal loading coil to vary.

Rhetorical question: Did you know that "displacement current"
is a patch added to the lumped circuit model to try to make
get closer to reality?

> You've kind of lost me here, since I can't see how you've replaced a
> two-terminal coil with a four-terminal transmission line. And a
> transmission line doesn't radiate, so that sometimes-important property
> of a solenoidal coil is ignored.

You wouldn't be lost if you knew that a single horizontal
wire above ground is a transmission line.

> Me, too. The thing which prompted me to add the automated helix
> generation feature to EZNEC was the realization that lumped loads so
> often did a poor job of simulating solenoidal loading inductors.

Too bad you don't accept the EZNEC results of that addition
which I have posted on my web page and you have ignored.

P.S. Roy has threatened to refund my purchase price for EZNEC
and declare my copy of EZNEC to be a pirated copy unless I stop
using it to prove him wrong.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2361. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-21 23:38:40 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7d20caa4-18f1-4fc6-af40-80d836e3b388@z9g2000yqi.googlegroups.com>
Source record: 16285

On Apr 21, 5:49 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:4a9f0909-d2e8-4534-b203-da658adf251c@g37g2000yqn.googlegroups.com...
>
> >At the expense of efficiency per unit length
>
> and what does that refer to?? i don't think i've ever heard of something
> with those units... they really don't make any sense.

Somebody changed the subject. I suppose you can start a new one since
this one has been taken away
Art

2362. 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 00:39:36 UTC
From: Sonny Hood <wrhood@cox.net>
Message-ID: <q7psu4dfm7j48lssafg9r0m1eoic7oqm91@4ax.com>
Source record: 16286

Make a good 10 meter vertical from CB Antenna, Solarcon Antron A-99 Vertical, just out of the box, never used. 9.9 (sic) dBi Gain. New price $89.95 plus shipping. Just found the GPK-1 radial kit (in the box) for the A-99, new cost $52.95 plus shipping. 2,000 Watt Rated, 18-29 MHz Optimal Range can be used for Amateur Band 10 Meters (cut 11.5" of the top radiator). Female UHF Coax Connection, Height: 17.5' Feet Tall, No Ground Needed . New package deal both for $90.00 Plus shipping. <k4wys@cox.net> or Call (757) 487-0357

2363. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 01:40:02 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49ee755b$0$18864$8046368a@newsreader.iphouse.net>
Source record: 16287

Cecil Moore wrote:

> Yes, because the current on a standing wave antenna
> doesn't change phase through the coil no matter what
> the delay through the coil. EZNEC agrees with me.
> Here is what EZNEC says about the current through
> 90 degrees of antenna:
>
> EZNEC+ ver. 4.0
> thin-wire 1/4WL vertical 4/21/2009 5:50:11 PM
> --------------- CURRENT DATA ---------------
> Frequency = 7.29 MHz
> Wire No. 1:
> Segment Conn Magnitude (A.) Phase (Deg.)
> 1 Ground 1 0.00
> 2 .97651 -0.42
> 3 .93005 -0.83
> 4 .86159 -1.19
> 5 .77258 -1.50
> 6 .66485 -1.78
> 7 .54059 -2.04
> 8 .40213 -2.28
> 9 .25161 -2.50
> 10 Open .08883 -2.71
>
> How do you explain the fact that the current changes by
> less than 3 degrees in 90 degrees of antenna? How can you
> possibly measure the delay through a coil, or through a
> wire, using a current like that?

Not to intrude, but I thought you were discussing a coil. The above
seems to be about an antenna.

By extension, if an inductor acts the same as an antenna, then a
capacitor also acts like an antenna. QEF.

So I guess that implies that a capacitor isn't much different than an
inductor.

I've misunderstood so much, I think I may just have to end it all.

tom
K0TAR

2364. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 02:09:30 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49ee7c43$0$18863$8046368a@newsreader.iphouse.net>
Source record: 16288

Sonny Hood wrote:
> Make a good 10 meter vertical from CB Antenna, Solarcon Antron A-99
> Vertical, just out of the box, never used. 9.9 (sic) dBi Gain. New
> price $89.95 plus shipping. Just found the GPK-1 radial kit (in the
> box) for the A-99, new cost $52.95 plus shipping. 2,000 Watt Rated,
> 18-29 MHz Optimal Range can be used for Amateur Band 10 Meters (cut
> 11.5" of the top radiator). Female UHF Coax Connection, Height: 17.5'
> Feet Tall, No Ground Needed . New package deal both for $90.00 Plus
> shipping. <k4wys@cox.net> or Call (757) 487-0357

WOW!

I have a .61 wavelength 4 element beam that's only a dB or so better!
What the heck does this design look like?

tom
K0TAR

2365. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 03:12:19 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <nWvHl.2122$b11.273@nwrddc02.gnilink.net>
Source record: 16289

"Tom Ring" <news0004@taring.org> wrote in message
news:49ee7c43$0$18863$8046368a@newsreader.iphouse.net...
> Sonny Hood wrote:
>> Make a good 10 meter vertical from CB Antenna, Solarcon Antron A-99
>> Vertical, just out of the box, never used. 9.9 (sic) dBi Gain. New
>> price $89.95 plus shipping. Just found the GPK-1 radial kit (in the
>> box) for the A-99, new cost $52.95 plus shipping. 2,000 Watt Rated,
>> 18-29 MHz Optimal Range can be used for Amateur Band 10 Meters (cut
>> 11.5" of the top radiator). Female UHF Coax Connection, Height: 17.5'
>> Feet Tall, No Ground Needed . New package deal both for $90.00 Plus
>> shipping. <k4wys@cox.net> or Call (757) 487-0357
>
> WOW!
>
> I have a .61 wavelength 4 element beam that's only a dB or so better! What
> the heck does this design look like?
>
> tom
> K0TAR

Now, now Tom. You have to understand the i in dBi stands for impossible.
Dale W4OP

2366. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 05:13:23 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <I6mdnYNXv6juOnPUnZ2dnUVZ_qSdnZ2d@posted.easystreetonline>
Source record: 16290

Tom Ring wrote:
> Sonny Hood wrote:
>> Make a good 10 meter vertical from CB Antenna, Solarcon Antron A-99
>> Vertical, just out of the box, never used. 9.9 (sic) dBi Gain. New
>> price $89.95 plus shipping. Just found the GPK-1 radial kit (in the
>> box) for the A-99, new cost $52.95 plus shipping. 2,000 Watt Rated,
>> 18-29 MHz Optimal Range can be used for Amateur Band 10 Meters (cut
>> 11.5" of the top radiator). Female UHF Coax Connection, Height: 17.5'
>> Feet Tall, No Ground Needed . New package deal both for $90.00 Plus
>> shipping. <k4wys@cox.net> or Call (757) 487-0357
>
> WOW!
>
> I have a .61 wavelength 4 element beam that's only a dB or so better!
> What the heck does this design look like?
>
> tom
> K0TAR

That's actually pretty sorry for a CB whip. Most of 'em have at least 12 dB gain and are rated for 10,000 watts. A visit to your local truck stop will convince you.

Roy Lewallen, W7EL

2367. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 05:20:01 UTC
From: Brian Howie <brian@nospam.demon.co.uk>
Message-ID: <FDks87DBkq7JFwnU@b-howie.demon.co.uk>
Source record: 16291

In message <49ee7c43$0$18863$8046368a@newsreader.iphouse.net>, Tom Ring
<news0004@taring.org> writes
>Sonny Hood wrote:
>> Make a good 10 meter vertical from CB Antenna, Solarcon Antron A-99
>> Vertical, just out of the box, never used. 9.9 (sic) dBi Gain. New
>> price $89.95 plus shipping. Just found the GPK-1 radial kit (in the
>> box) for the A-99, new cost $52.95 plus shipping. 2,000 Watt Rated,
>> 18-29 MHz Optimal Range can be used for Amateur Band 10 Meters (cut
>> 11.5" of the top radiator). Female UHF Coax Connection, Height: 17.5'
>> Feet Tall, No Ground Needed . New package deal both for $90.00 Plus
>> shipping. <k4wys@cox.net> or Call (757) 487-0357
>
>WOW!
>
>I have a .61 wavelength 4 element beam that's only a dB or so better!
>What the heck does this design look like?
>
>tom
>K0TAR
It includes ground gain. However if they want to play this game, an
isotropic antenna has a gain of 6dBi, which gets you back to 3.9dBi, but
even that is pushing it for a 1/2 over a 1/4 , unless you can get it up
at a few hundred feet. :-)

Brian GM4DIJ

--
Brian Howie

2368. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 07:29:49 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <SEzHl.32021$b9.20187@bignews6.bellsouth.net>
Source record: 16292

"Brian Howie" <brian@nospam.demon.co.uk> wrote in message
news:FDks87DBkq7JFwnU@b-howie.demon.co.uk...
> In message <49ee7c43$0$18863$8046368a@newsreader.iphouse.net>, Tom Ring
> <news0004@taring.org> writes
>>Sonny Hood wrote:
>>> Make a good 10 meter vertical from CB Antenna, Solarcon Antron A-99
>>> Vertical, just out of the box, never used. 9.9 (sic) dBi Gain. New
>>> price $89.95 plus shipping. Just found the GPK-1 radial kit (in the
>>> box) for the A-99, new cost $52.95 plus shipping. 2,000 Watt Rated,
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>>> 11.5" of the top radiator). Female UHF Coax Connection, Height: 17.5'
>>> Feet Tall, No Ground Needed . New package deal both for $90.00 Plus
>>> shipping. <k4wys@cox.net> or Call (757) 487-0357
>>
>>WOW!
>>
>>I have a .61 wavelength 4 element beam that's only a dB or so better! What
>>the heck does this design look like?
>>
>>tom
>>K0TAR
> It includes ground gain. However if they want to play this game, an
> isotropic antenna has a gain of 6dBi, which gets you back to 3.9dBi, but
> even that is pushing it for a 1/2 over a 1/4 , unless you can get it up at
> a few hundred feet. :-)
>
> Brian GM4DIJ

Actually, if you want an emergency antenna for operating 20 to 6 meters with
a tuner, the A-99 Solarcon can do the job.

Let's face it, without favorable propagation, no antenna, regardless of its
alleged gain, is going to provide contacts. After that admission,
directionality and gain are about all that the beam antennas provide. For
someone living in a small footprint land parcel with very limited antenna
options, the A-99 by Solarcon is really a pretty good deal.

I've worked Europe, Africa, Russia and all of the US, Mexico, Central
America and South America with ease. When the bands are open, you are
capable of working most of the world with one of these antennas and only 100
watts. And I'm talking about voice contacts, not power miserly CW or digital
models.

Now, consider that you're sitting on your bed (your hamshack) and you are
thinking of the money that you have, which isn't enough to buy a tower, a

rotator and the beam that you want, but is enough to buy the Solarcon A-99 antenna, which you can put up yourself without protest from the landlord. On the one hand you have no operating at all, but in the other hand (A-99), you can work the world. Which would you choose?

Believe it or not, I was chewing the rag with a fellow in Austria one day for quite a while (can't remember his callsign). We finally got around to talking about station equipment and we went through the radio list and other stuff. I purposefully avoided mentioning my antenna (we were on 12 or 10 meters). But after a while, he wore me down and I admitted that I was using a Solarcon A-99. All he did was say, "That's a CB antenna!" gave his callsign and that was the last I heard from him. He was convinced that I was a bootlegger, even though I used my legal callsign which was then current in the callbook.

It's hard to believe that there are such snobs in the world.

Ed, AJ4PJ

2369. Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 07:40:28 UTC
From: "-.-. --.-" <a@a.com>
Message-ID: <gsmhll$6j7$1@nnrp-beta.newsland.it>
Source record: 16293

Hello,

not long time ago i was caught by a doubt, partially solved in my mind, but i think can be interesting for the folks here reply to a antenna newbie (me) about newbie questions :)

The doubt was (and is): a monopole, end feeded, that is 1/4 wave phisical lenght, is obviously also 1/4 wave electrical lenght, in respect of the classic "book image" that show the wave travelling (or standing, here i see different opinions...) cross the monopole just for 1/4 of the full sinewave. And this in my mind is OK.

Now, how i do treat a 5/4 wave phisical lenght monopole, in respect of electrical lenght ?? It is even a "1/4 wave configuration" and 1/4 wl electrical lenght, because the sinewave travelling (or standing) in the monopole terminate in both cases at 1/4 of the wave, or 5/4 is just 5/4 wl and 1/4 is 1/4 wl, electrically and phisically ??

Note: i'm wondering about the impedance, not about radation patterns. I'm aware that radiation patterns are singular in respect of the singular electrical lenght of the monopole. Or better, that is what i learn, right or wrong :)

The second question is about 1/4 wave vs 1/2 wave monopoles. I googled around, but no one define exactly why "1/2 wave antenna don't need ground plane". The most technical explanation i found is that due the high impedance at the feed point, the 1/2 wl antenna don't care about the ground plane. But i'm not so convicted about this, and a basic explanation of the 1/2 wl "no-ground-needed" theory is appreciated.

Apologize for grammar errors and lenght of the post. Regards and 73.

-.-. --.-, Cristiano, Italy.

2370. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 10:45:05 UTC
From: wimabctel@tetech.nl
Message-ID: <4f8b15b2-c559-4ef5-b641-4acbe7ae635f@x5g2000yqk.googlegroups.com>
Source record: 16294

Hello Cristiano,

I put comment between your text.

On 22 abr, 09:40, "-.-. --.-" <a...@a.com> wrote:
> Hello,
>
> not long time ago i was caught by a doubt, partially solved in my mind, but
> i think can be interesting for the folks here reply to a antenna newbie (me)
> about newbie questions :)
>
> The doubt was (and is): a monopole, end feeded, that is 1/4 wave phisical
> lenght, is obviously also 1/4 wave electrical lenght, in respect of the
> classic "book image" that show the wave travelling (or standing, here i see
> different opinions...) cross the monopole just for 1/4 of the full sinewave.
> And this in my mind is OK.

A physical 1/4 wave, behaves is an electrically 1/4 wave, with some
additional end-capacitance due to the "end effect" (also called
"fringe effect"). To compensate for the end-capacitance, you have to
make the physical 1/4 wave radiator somewhat shorter (to get resistive
input impedance).

Note: input impedance of quarter wave over an infinite good conducting
ground plane is about 35 Ohms (from image theory). A quarter wave fed
over 3 or 4 radials has somewhat lower input impedance.
>
> Now, how i do treat a 5/4 wave phisical lenght monopole, in respect of
> electrical lenght ?? It is even a "1/4 wave configuration" and 1/4 wl
> electrical lenght, because the sinewave travelling (or standing) in the
> monopole terminate in both cases at 1/4 of the wave, or 5/4 is just 5/4 wl
> and 1/4 is 1/4 wl, electrically and phisically ??

You can see the 5/4 wave as "end-capacitance" + 0.5+0.5+0.25 wave.
When you make the first 0.5 wave somewhat shorter to compensate for
the end-capacitance, you will find a low input impedance (resistive),
but somewhat higher then for the 0.25 wave (due to more radiation loss
of the forward en reflected wave). On the resonance frequency, the
0.45+0.5 wave section behaves as a high input impedance, therefore the
input input impedance of the 0.25 wave section is low (quarter wave
transformer formula).

You have the length correction for "end-effect" only ones. So when you
have to cut 2cm for the 0.25 wave case, you should do almost the same
for the 5/4 wave case.

When you change frequency (starting from resonant frequency), you will
notice that inductive or capacitive component changes faster than in
the 0.25 wave case. So roughly spoken, the shape of the impedance
curve around the resonant frequency is same as for the 0.25 wave case,
but the exact figures are different.

>
> Note: i'm wondering about the impedance, not about radation patterns. I'm
> aware that radiation patterns are singular in respect of the singular
> electrical lenght of the monopole. Or better, that is what i learn, right or
> wrong :)
>
> The second question is about 1/4 wave vs 1/2 wave monopoles. I googled
> around, but no one define exactly why "1/2 wave antenna don't need ground
> plane". The most technical explanation i found is that due the high
> impedance at the feed point, the 1/2 wl antenna don't care about the ground
> plane. But i'm not so convicted about this, and a basic explanation of the
> 1/2 wl "no-ground-needed" theory is appreciated.

Thin 0.5 wave antennas have high input impedance (some kOhms). So at
about 100W input current is about 0.3A, while input current for a 0.25
wave is about 2A. (difference is 16 dB).

The total impedance as seen from the coaxial feeder is the sum of the
antenna impedance and the impedance of your (floating) ground (for
example some quarter wave radials). As input impedance of thin HW
radiator is high, many commercial antennas do not have radials. They
rely on the (<< 1 kOhm) impedance of the screen of the coaxial feeder
or the mast/pole/roof structure, etc.

Sometimes your mast/pole or cable may show resonance that increases
the ground impedance as seen at the antenna base to a value not far
below 1 kOhm. This will lead to relative high RF current in mast/pole/
cable screen, and because of this, significant change in radiation
pattern.

I have a document solely on HW monopoles here:
http://www.tetech.nl/divers/HWmonopoleNL1.pdf.
It is in Dutch Language, but the comment in all graphs is in English
Language.
>
> Apologize for grammar errors and lenght of the post. Regards and 73.
>
> -.-. --.-, Cristiano, Italy.

Distinti saluti,

Wim
PA3DJS
www.tetech.nl
Please remove abc when using the pm.

2371. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 10:49:26 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <052c9f58-b980-4f09-a9ba-b14a885013ef@t21g2000yqi.googlegroups.com>
Source record: 16295

Perhaps I could share a few thoughts on the "missing degrees" topic; and again I apologise as the new boy if this has all been covered before! I found the following argument helpful when trying to get my head around some of the issues, and it may help others:

Picture the short, base-loaded, 6ft vertical antenna example I gave earlier which resonates at 3.79MHz with the coil dimensions I quoted. The 6ft whip represents an electrical length of about 9 degrees. Now suppose I remove the 12" long loading coil leaving a 12" vertical gap in the antenna. At this point I find it much more helpful to think in terms of a "missing" +j2439 ohms reactance, rather than a "missing" 81 degrees, for reasons we shall see later.

Now I run out a couple of horizontal wires from where the top and bottom of the coil were connected, and short them at the far end thereby forming a short-circuit stub. That stub will insert some "loading inductance" in place of the coil. How long do I need to make the stub to bring the vertical back to resonance?

Using the simplified stub formula Xl=+jZo.tan(Bl), and assuming for now that the characteristic impedance is 600 ohms, I find that the electrical length needed to generate +j2439 is 76 degrees - well short of any "missing" 81 degrees. And if I increase the characteristic impedance of the stub to 1200 ohms I only need 64 degrees. The Corum & Corum formulas tell me that the characteristic impedance of my original loading coil is 2567 ohms at this frequency, so that only requires an electrical length of 43 degrees.

So, for me, the "missing degrees" question is not really about missing degrees; rather, it's about a missing inductive reactance which can be provided by transmission line structures with a wide range of electrical lengths depending on their characteristic impedance. The "constant" is the reactance, not the electrical length.

I also find this picture helpful because I can visualize that, although there must be forward and return waves on the stub, the net current I would observe is a standing wave whose phase doesn't change along the length of the stub. Incidentally, taking 43 degrees as the length of my loading coil I would expect to see a change in current amplitude along the length of the stub of cos(43); that's 0.73 - pretty close to the 0.69 observed in the EZNEC model between the ends of the coil.

Finally, I ask what the transmission line characteristic impedance would need to be for its length to be exactly the "missing" 81 degrees? Answer: 2349/atan(81)=273 ohms. Isn't that in the right ball

park for the characteristic impedance of a single straight piece of wire - in fact the piece of wire that's needed to turn the 6ft whip into a full quarter-wave vertical?

And finally, finally, to Roy: I struggle with the "mental gymnastics" needed to move from the simple stub model outlined above, to one where the "transmission line" is a single wire, not two wires, and "in-line" with the antenna elements. If you read the Curum & Corum paper I'm sure it will be clearer to you than to me! But until I can understand it better, I content myself with this thought: if we removed 56ft of wire from our full-sized quarter-wave vertical to leave just the 6ft whip, we'd be happy to analyse this 56ft straight piece of wire using a transmission line approach (including considering forward & reflected waves, and the resultant standing wave along it), and to ascribe to it an equivalent inductive reactance. I don't understand why I (we?) find it intellectually any more difficult to take the same approach with a piece of wire once it is wound into a helix.

Regards,
Steve G3TXQ

2372. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 11:18:00 UTC
From: nm5k@wt.net
Message-ID: <4d90d070-c6f6-446a-a61e-259766aa438a@x29g2000prf.googlegroups.com>
Source record: 16296

On Apr 22, 2:29 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:

>
> Ed, AJ4PJ

Did you change calls yet again? I'm confused.. :/

2373. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 11:19:41 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <ae6d383e-71df-454a-bc1f-395130409b84@r33g2000yqn.googlegroups.com>
Source record: 16297

The electrical length of a monopole is longer than its physical length, because the velocity of propagation along the monopole is slower than in free space.

Here are some parameters for two cases of base-fed, self-resonant, 1 MHz monopoles, with two ohms in the r-f ground connection, over a perfect ground plane:

1/4-WAVE

Height = 70 meters
Width = 1.5 meters (solid cylinder)
Input Z = 38 + j0 ohms
Peak Gain = 4.9 dBi at zero degrees elevation
Number of Lobes in Elevation Pattern = 1

5/4-WAVE

Height = 368 meters
Width = 3 meters (solid cylinder)
Input Z = 63.5 + j0 ohms
Peak Gain = 7.57 dBi at 57 degrees elevation
Number of Lobes in Elevation Pattern = 3

Antenna current always is very nearly zero at the top of a monopole of every height, and distributes itself below the top of the monopole approximately in the form of a sine wave.

Monopoles of every height need a very low-loss return path for the displacement currents they generate in the nearby earth, extending out to about 1/2-wavelength. Current densities in the earth vary within that distance for monopoles of different heights, and are proportionally less very near a 1/2-wave monopole than very near a 1/4-wave monopole. But for best system efficiency a 1/2-wave monopole still needs a low-loss ground plane to work against.

An example of a low-loss r-f ground connection is 120 buried radial wires extending about one-half of a free-space wavelength in three-degree steps around the base of the monopole, and bonded together at the base. Such a radial system has an r-f loss of 2 ohms or less.

RF

2374. cheap LEVIS jeans wholesale

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 11:26:52 UTC
From: ningshoe1@163.com
Message-ID: <13e0044c-2188-430e-9e60-e2c45906273c@y33g2000prg.googlegroups.com>
Source record: 16298
Cross-posted to: rec.radio.amateur.antenna,rec.birds

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2375. Dior Glasses cheap wholesaler (paypal payment)(www.sneaker-shop08.com)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 11:28:06 UTC
From: ningshoe1@163.com
Message-ID: <59f8880b-3fc5-4495-9d1f-7073cbb468df@w31g2000prd.googlegroups.com>
Source record: 16299
Cross-posted to: rec.radio.amateur.antenna,rec.birds

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Affliction Jean
Armani Jean
Bape Jeans cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
BBC Jeans
Christian Audigier jeans
Coogi Jeans
D&G Jeans
Diesel Jeans
Ed hardy Jeans cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Evisu Jeans
G-star Jean
Gino Green Global
LRG Jeans
Pants cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
Red Monkey Jeans
Rcover Jeans
Rock Republic Jean
Rock Women Jeans
Seven Jean cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
True Religion
True Religion Women
cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
T-Shirt
lacoste t shirt
Lacoste Men's shirts
ralph lauren polo
Polo long sleeve shirt cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
a&f t shirt
Artful Dodger t shirts
Abercrombie Fitch
Affliction Shirt
Armani shirt
Bape/Ape Shirt cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
BBC Shirt

Burberry
Christan Audigier
Coogi Shirt
D&G shirts cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Ed hardy Shirt
Ed hardy Women
Evisu t-shirt
Gino Green Global cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Juicy t-shirt
Lacoste Shirt cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Polo Shirt
Smet Shirt
cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
Jersey
NFL Jersey cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
NBA Jersey
NHL Jersey cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
MLB Jersey
Football Jersey
cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
Hoodies
Artful Dodger
AK Hoody
Affliction Hoody cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Bape/Ape Hoody
BBC Hoody cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Christan Audigier
CLH Hoody
ED-Hardy Hoody cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Coogi Hoody
Evisu Hoody
G-Star Hoody cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Gino Green Global
Kidrobot Hoody cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
LRG Hoody
Parish Hoody
Polo Hoody
10 Deep Hoody

cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
Jacket
Adidas Jacket cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
A&F men Jacket
A&F women Jacket cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Bape Jacket
BBC Jacket
ED Jacket cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
Sweater
A&F Sweater cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Armani sweater
Boss sweater cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
D&G sweater
Lacoste Sweater
Polo sweater cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Prada sweater
cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
Suit
Baby Phat
Burberry suit
Dior suit
Juicy Couture suit
cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
Consumer electrics
GHD
MK4 cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
MK5
Hair straightener
Hair products cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Hair accessories
Ipod 3rd generation
Ipod 4th generation cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Ipod nano
Ipod touch
cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
air jordan
Sun Glasses

New Sunglasses
Armani Glasses cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Burberry Glasses
D&G Glasses
Chanel Glasses cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Dior Glasses cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Fendi Glasses
Gucci Glasses
Okely Glasses cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
LV Glasses
Prada Glasses cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Versace Glasses
Belt
Armani Belt cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
D&G Belt
ED hardy Belt
Gucci Belt cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
LV Belt
Other brands belt cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
Hat cheap wholesaler (paypal payment)(www.sneaker-shop08.com)
New Hat
Christan Audigier
Ed hardy Hat cheap wholesaler (paypal payment)(www.sneaker-shop08.com
)
ERA Hat
Gucci Hat

2376. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 12:00:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <IFDHI.25193$c45.12225@nlpi065.nbdc.sbc.com>
Source record: 16300

-.-. --.- wrote:
> Now, how i do treat a 5/4 wave phisical lenght monopole, in respect of
> electrical lenght ??

The free demo version of EZNEC will answer your question.
1/4WL above the 5/4WL monopole's feedpoint, there is a
current node ('x' minimum point). Of course, there is another
current node at the top of the monopole. Looking at the
monopole with your head turned 90 degrees, the current
distribution looks something like this.

```
_ __
\ / \
fp----x------x------x
\ __ /
```

Since it is fed at a current maximum point, you need
a counterpoise/ground-plane for such an antenna.
You didn't ask, but the take-off-angle for a 5/4WL monopole
is about 58 degrees, not a good idea above 10 MHz.

> The second question is about 1/4 wave vs 1/2 wave monopoles. I googled
> around, but no one define exactly why "1/2 wave antenna don't need ground
> plane".

A 1/4WL monopole is half of an antenna. The ground plane
is the other half. The feedpoint is at a current maximum
point which is a magnetic field maximum. The high intensity
magnetic field directly encountering the earth is a lossy
condition.

A 1/2WL monopole is a complete resonant antenna. The
feedpoint is at a voltage maximum point which is an
electric field maximum. A pure electric field encountering
earth ground is less lossy than a pure magnetic field
encountering earth ground. Since the feedpoint impedance
is very high, some hams simply use a ground rod for a
counterpoise.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2377. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 12:15:20 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <qTDHl.25194$c45.10463@nlpi065.nbdc.sbc.com>
Source record: 16201

steveeh131047 wrote:

Steve, congratulations on your QST article.

> Now I run out a couple of horizontal wires from where the top and
> bottom of the coil were connected, and short them at the far end
> thereby forming a short-circuit stub. That stub will insert some
> "loading inductance" in place of the coil. How long do I need to make
> the stub to bring the vertical back to resonance?

I would also ask the questions: How much delay is there through
a series stub? What is the phase shift through the stub measured
by using the current on this standing-wave antenna? See below.

> I also find this picture helpful because I can visualize that,
> although there must be forward and return waves on the stub, the net
> current I would observe is a standing wave whose phase doesn't change
> along the length of the stub.

Someone is likely to point out that if one uses a current probe
to observe the current, it looks like a sine wave, i.e. its
phase is obviously changing with time. The point is that the
phase changes very little with length.

What we must be careful to say is that the phase doesn't change,
RELATIVE TO THE SOURCE PHASE, along the length of the stub. Here's
what EZNEC says about the phase in a 1/4WL open-circuit stub.

```
EZNEC+ ver. 4.0
1/4WL open stub in free space 4/22/2009 7:08:09 AM
--------------- CURRENT DATA ---------------
Wire No. 2:
Segment Conn Magnitude (A.) Phase (Deg.)
1 W1E1 .99665 -0.25
2 .97169 -0.67
3 .92292 -1.01
4 .85155 -1.30
5 .75929 -1.53
6 .64841 -1.72
7 .52163 -1.86
8 .38205 -1.96
9 .23309 -2.03
10 Open .07839 -2.07
```

Only 2 degrees of current phase shift in 90 degrees of stub.
How can that current be used to calculate delay through the
stub?

--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2378. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 15:52:19 UTC
From: "R.Scott" <w7psk@yahoo.com>
Message-ID: <b3a10440-adc0-4df2-9e0c-49fdcd5a106d@l1g2000yqk.googlegroups.com>
Source record: 16202

> I have a .61 wavelength 4 element beam that's only a dB or so better!
> What the heck does this design look like?
>
> tom
> K0TAR

I have an A-4S thats only 8.4db gain. I guess I paid way too much and
should have bought
this WONDER antenna

2379. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 16:22:27 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <VsGdnTwBXMbb2XLUnZ2dnUVZ_sqdnZ2d@posted.easystreetonline>
Source record: 16203

steveeh131047 wrote:
> . . .
> And finally, finally, to Roy: I struggle with the "mental gymnastics"
> needed to move from the simple stub model outlined above, to one where
> the "transmission line" is a single wire, not two wires, and "in-line"
> with the antenna elements. If you read the Curum & Corum paper I'm
> sure it will be clearer to you than to me! But until I can understand
> it better, I content myself with this thought: if we removed 56ft of
> wire from our full-sized quarter-wave vertical to leave just the 6ft
> whip, we'd be happy to analyse this 56ft straight piece of wire using
> a transmission line approach (including considering forward &
> reflected waves, and the resultant standing wave along it), and to
> ascribe to it an equivalent inductive reactance. I don't understand
> why I (we?) find it intellectually any more difficult to take the same
> approach with a piece of wire once it is wound into a helix.
>
> Regards,
> Steve G3TXQ

The similarities between an antenna and transmission line have been known for a very long time and described in a number of papers. (See for example Boyer, "The Antenna-Transmission Line Analog", _Ham Radio_, April and May 1977, and Schelkunoff, "Theory of Antennas of Arbitrary Size and Shape", _Proc. of the I.R.E., Sept. 1941.) It's a useful conceptualization tool but, like comparing electricity to water in a pipe, has its limitations. If you look at the transmission line properties of a vertical, you see that the two conductors (the antenna and ground plane) get farther and farther apart as the distance from the feedpoint increases. This behaves like a transmission line whose impedance increases with distance from the feedpoint and, in fact, a TDR response shows just this characteristic. It's open circuited at the end, so it behaves pretty much like an open circuited transmission line, resulting in the same reflections and resulting standing waves you see on a real antenna. One difficulty is accounting for the radiation, which adds resistance to the feedpoint. I've never seen an attempt at simulating it with distributed resistance, which I don't think would work except over a narrow frequency range. Boyer deals with this by simply adding a resistance at the model feedpoint, noting that the resistance doesn't change very rapidly with frequency. So this is one inherent shortcoming of the transmission line analog. As long as you incorporate the increasing Z0 with distance from the feedpoint and the limitations of the resistive part, the model does reasonably well in predicting the feedpoint characteristics of simple antennas. But one shortcoming of many antenna transmission line analogies is the attempt

to assign a single "average" or "effective" characteristic impedance to the antenna, rather than the actual varying value. This is where a lot of care has to be taken to assure that the model is valid in the regime where it's being used.

There's no reason you can't also include a loading coil in the transmission line model, and Boyer devotes much of the second part of his article to doing just that. A solenoidal coil raises the characteristic impedance of the length of "line" it occupies, because of the increase in L/C ratio in that section. The traveling wave delay in that section of the transmission line also increases due to the increased LC product. (L and C are per unit length in both cases.) But don't forget the C which is an essential part of this analysis, and don't forget that the C is decreasing from the bottom to the top of the coil, resulting in an increasing characteristic impedance. A very short coil like a toroid will raise the Z0 only for a very short distance, so behaves differently from a long solenoidal coil.

Models or analogs can be very useful in gaining insight about how things work. You have to remain vigilant, though, that you don't extend the analogy beyond it realm of validity.

Roy Lewallen, W7EL

2380. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 16:29:56 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <jZGdneiNs9SV23LUnZ2dnUVZ_vKdnZ2d@posted.easystreetonline>
Source record: 16204

R.Scott wrote:
>> I have a .61 wavelength 4 element beam that's only a dB or so better!
>> What the heck does this design look like?
>>
>> tom
>> K0TAR
>
> I have an A-4S thats only 8.4db gain. I guess I paid way too much and
> should have bought
> this WONDER antenna

I'm just putting the final touches on the conversion of my well-used "Antenna Basics" talk from overheads to Power Point for an upcoming convention in Boise this weekend. Among the promises I make at the beginning are to show how to make a back yard dipole with over 4.4 dBd gain, and a three-element beam with 3 S-Units gain. But after some thought, I decided that the beam actually has 6 S-Units gain, and that's what I'll guarantee. So a 9 dB vertical is child's play.

Roy Lewallen, W7EL

2381. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 16:43:00 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <qOHHl.28203$YU2.16546@nlpi066.nbdc.sbc.com>
Source record: 16205

Roy Lewallen wrote:
> R.Scott wrote:
>>> I have a .61 wavelength 4 element beam that's only a dB or so better!
>>> What the heck does this design look like?
>>>
>>> tom
>>> K0TAR
>>
>> I have an A-4S thats only 8.4db gain. I guess I paid way too much and
>> should have bought
>> this WONDER antenna
>
> I'm just putting the final touches on the conversion of my well-used
> "Antenna Basics" talk from overheads to Power Point for an upcoming
> convention in Boise this weekend. Among the promises I make at the
> beginning are to show how to make a back yard dipole with over 4.4 dBd
> gain, and a three-element beam with 3 S-Units gain. But after some
> thought, I decided that the beam actually has 6 S-Units gain, and that's
> what I'll guarantee. So a 9 dB vertical is child's play.
>
> Roy Lewallen, W7EL
Roy;

When you are finished with the convention can you post the PP somewhere
on the net so we can download it. It sounds interesting.

Dave WD9BDZ

2382. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 16:58:56 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <k1IHl.15005$hc1.12585@flpi150.ffdc.sbc.com>
Source record: 16206

Roy Lewallen wrote:
> If you look at the transmission line
> properties of a vertical, you see that the two conductors (the antenna
> and ground plane) get farther and farther apart as the distance from the
> feedpoint increases. This behaves like a transmission line whose
> impedance increases with distance from the feedpoint and, in fact, a TDR
> response shows just this characteristic.

So what? An ever increasing Z0 does not change the
basic characteristics of a standing wave antenna, one
characteristic of which is: The phase of the current
relative to the feedpoint current phase changes by
a minuscule amount. So exactly how did you use that
current to measure and calculate delay???

> I've never seen an attempt at
> simulating it with distributed resistance, ...

Then, just as I suspected, you have never looked at my
web pages. Radiation "loss" can easily be simulated by
resistance wire. Please download

http://www.w5dxp.com/stub_dip.EZ

and alleviate your ignorance.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2383. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 17:07:44 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <A9lHl.1$fy.0@nwrddc01.gnilink.net>
Source record: 16207

> It includes ground gain. However if they want to play this game, an
> isotropic antenna has a gain of 6dBi, which gets you back to 3.9dBi, but
> even that is pushing it for a 1/2 over a 1/4 , unless you can get it up at
> a few hundred feet. :-)
>
> Brian GM4DIJ
>

How does a vertical benefit from ground gain?

Dale W4OP

2384. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 17:29:11 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <01fd9b98-a218-49e0-920e-248570d62b67@y10g2000prc.googlegroups.com>
Source record: 16209

On Apr 22, 11:58 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Roy Lewallen wrote:
> > If you look at the transmission line
> > properties of a vertical, you see that the two conductors (the antenna
> > and ground plane) get farther and farther apart as the distance from the
> > feedpoint increases. This behaves like a transmission line whose
> > impedance increases with distance from the feedpoint and, in fact, a TDR
> > response shows just this characteristic.
>
> So what? An ever increasing Z0 does not change the
> basic characteristics of a standing wave antenna, one
> characteristic of which is: The phase of the current
> relative to the feedpoint current phase changes by
> a minuscule amount. So exactly how did you use that
> current to measure and calculate delay???
>
> > I've never seen an attempt at
> > simulating it with distributed resistance, ...
>
> Then, just as I suspected, you have never looked at my
> web pages. Radiation "loss" can easily be simulated by
> resistance wire. Please download
>
> http://www.w5dxp.com/stub_dip.EZ
>
> and alleviate your ignorance.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Anybody got a copy of the two articles that Roy alluded too
I would really like to read them
Regards
Art

2385. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 17:29:42 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsnk66$9c0c$1@tr22n12.aset.psu.edu>
Source record: 16208

JB wrote:

This is getting to be a bit of tit for tat, JB, and I have no illusions of getting you to support evolving life, and though I was once a creationist of sorts when I was young, that ship has long sailed in my case.

If creation science is going to be science, it is going to have to produce some science.

I'd love to see some peer reviewed cites of the creationist research, but none seem to be forthcoming. If you have any, let me know, and I'll read and discuss them wit ya.

So till then we'll just have to disagree.

- 73 de Mike N3LI -

2386. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 17:35:51 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsnkhn$9c0e$1@tr22n12.aset.psu.edu>
Source record: 16210

Cecil Moore wrote:
> JB wrote:
>> The scientific method doesn't allow us to
>> make assumptions then try to back them up in further investigations.
>
> Sorry, that's exactly what the scientific method allows
> us to do.
>
> 1. Form an hypothesis
> 2. Compare it to reality
> 3. If it doesn't fit, fine tune the hypothesis
> 4. Then goto 1, Else it is true
>
> The fact that we humans share 95% of a chimpanzee's
> DNA is proof enough that evolution is valid and we
> are literally a "Monkey's Uncle". The only question
> left is: "Did God cause that evolution?"

Strictly speaking, Cecil, if we were anything it would be a monkey's great to the tenth power nephews, but that isn't even accurate.

There was a critter some long time ago that isn't around today, from which monkeys, chimps and apes eventually evolved from.

Could a God cause that evolution? I could imagine the possibility, or at least the conditions that set it into motion. But all that is outside the realms of science.

- 73 de Mike N3LI -

2387. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 18:07:42 UTC
From: "-.-. --.-" <a@a.com>
Message-ID: <gsnmdfig1@nnrp-beta.newsland.it>
Source record: 16211

<wimabctel@tetech.nl> ha scritto nel messaggio
news:4f8b15b2-c559-4ef5-b641-4acbe7ae635f@x5g2000yqk.googlegroups.com...

> The total impedance as seen from the coaxial feeder is the sum of the
> antenna impedance and the impedance of your (floating) ground (for
> example some quarter wave radials). As input impedance of thin HW
> radiator is high, many commercial antennas do not have radials. They
> rely on the (<< 1 kOhm) impedance of the screen of the coaxial feeder
> or the mast/pole/roof structure, etc.

Ok. Have some right input now.. so, reading also the other posters (that
here i thanks for all the inputs...), i assume that:

- thin HW monopoles have high impedance;
- by the way, high impedance mean a Z transformer, or auto-transformer, that
match the ~1kOhm Z of the antenna to the 50 Ohm of feed line;
- radials are ininfluent or useless because HW monopole is a complete
resonant antenna;

What is not clear for me is "They rely on the (<< 1 kOhm) impedance of the
screen of the coaxial feeder or the mast/pole/roof structure, etc."
What means? That because i have a complete resonant antenna the concept of
"ground" is only a concept of "Z in regard of what??" and because
pole/coax/mast present for sure a much lower Z (at monopole resonant
frequency) than the monopole itself, we (and the antenna) assume that
pole/coax/mast is "ground zero" for us ?

> Sometimes your mast/pole or cable may show resonance that increases
> the ground impedance as seen at the antenna base to a value not far
> below 1 kOhm. This will lead to relative high RF current in mast/pole/
> cable screen, and because of this, significant change in radiation
> pattern.

And if i guess right in the precedent statement i wrote, in this case
(resonant mast/pole/feed line) i lose the "ground 0" reference and in this
case i do provide a low impedance reference to the antenna. Maybe, adding
some radial. But this is my guess, i'm not sure if is the right thing to do.

> I have a document solely on HW monopoles here:
> http://www.tetech.nl/divers/HWmonopoleNL1.pdf.
> It is in Dutch Language, but the comment in all graphs is in English
> Language.
Read and appreciate for what i understand inside :)

I have one more (in pure newbie fashion :)) question that i append directly
to Cecil post, but is very appreciated also a reply from all the readers of
this thread.

-.-. --.- , Cristiano, Italy

2388. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 18:14:42 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <X1JHl.16853$D32.5242@flpi146.ffdc.sbc.com>
Source record: 16212

Dale Parfitt wrote:
> How does a vertical benefit from ground gain?

2-3 dB higher gain over perfect ground than in
free space?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2389. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 18:18:55 UTC
From: "-.-. --.-" <a@a.com>
Message-ID: <gsnn2h$11j$1@nnrp-beta.newsland.it>
Source record: 16213

"Cecil Moore" <nospam@w5dxp.com> ha scritto nel messaggio
news:lFDHl.25193$c45.12225@nlpi065.nbdc.sbc.com...

> A 1/4WL monopole is half of an antenna. The ground plane
> is the other half. The feedpoint is at a current maximum
> point which is a magnetic field maximum. The high intensity
> magnetic field directly encountering the earth is a lossy
> condition.
>
> A 1/2WL monopole is a complete resonant antenna. The
> feedpoint is at a voltage maximum point which is an
> electric field maximum. A pure electric field encountering
> earth ground is less lossy than a pure magnetic field
> encountering earth ground. Since the feedpoint impedance
> is very high, some hams simply use a ground rod for a
> counterpoise.

First thanks for replies abt the 5/4 WL monopole, i'm trying right now to
use eznec and simulate what you saw me.
One more newbie question: 1/4 WL and 1/2 WL monopoles are both end feeded.
So my feed point is exactly at the begin of monopole.
Assuming there is no feed line, or also a 1/2 WL feed line (if IIRC 1/2 wl
is the line lenght that preserve the phase of my RF wave from generator to
the end of the line...) what decide if i'm feeding the antenna on a current
maximum point or in a voltage maximum point ?? On a dipole, with the imagine
of the wave "superimposed" to the dipole in my mind, is quite easy for me
figure out if i'm feeding it on a current node or on a voltage peak (e.g
center feed vs. off center feed dipole). But since in both 1/4 and 1/2 wl
monopoles i'm at the *begin* of the antenna, what decide the feed point
modality (I or V) ?? The impedance i have at the specific point ??

Regards,
-.-. --.-., Cristiano, Italy.

2390. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 18:20:50 UTC
From: "-.-. --.-" <a@a.com>
Message-ID: <gsnn64$14v$1@nnrp-beta.newsland.it>
Source record: 16214

"-.-. --.-" <a@a.com> ha scritto nel messaggio
news:gsnn2h$11j$1@nnrp-beta.newsland.it...
> Assuming there is no feed line, or also a 1/2 WL feed line (if IIRC 1/2
> wl is the line lenght that preserve the phase of my RF wave from generator
> to the end of the line...)

Oops. Sorry.
1/2 wl feed line preserve the impedance seen at both ends of the line. Not
sure about phase.

-.-. --.-

2391. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 18:31:36 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <tJmdnUnfxd8S_3LUnZ2dnUVZ_oOdnZ2d@posted.easystreetonline>
Source record: 16215

Dale Parfitt wrote:
> > It includes ground gain. However if they want to play this game, an
>> isotropic antenna has a gain of 6dBi, which gets you back to 3.9dBi, but
>> even that is pushing it for a 1/2 over a 1/4 , unless you can get it up at
>> a few hundred feet. :-)
>>
>> Brian GM4DIJ
>>
> How does a vertical benefit from ground gain?
>
> Dale W4OP

An isotropic antenna always has a gain of 0 dBi, by definition. Also by definition, it always radiates equally in all directions. So 0 dBi is always a fixed field strength for a given power input and distance, and this field strength doesn't depend on the presence or absence of a ground or other environmental characteristics. This constancy is what makes dBi such a useful reference. Any other antenna, such as a dipole, used as a reference should be placed at exactly the same position and, if over ground, at the same height as the antenna being analyzed.

Antenna field strength automatically increases 3 dB when you place it over a perfect, infinite, flat ground plane(*) as opposed to being in free space. That's because the radiated power is concentrated in one hemisphere rather than being radiated in all directions. The isotropic reference, 0 dBi, is always referenced to an isotropic antenna in free space, that is, one which radiates equally in all directions. So gain expressed in dBi increases 3 dB as a result. Ground reflection also modifies the antenna pattern due to reflection, so the gain increase from placing an antenna over ground is often greater than 3 dB, typically around 4 - 5. A little experimentation with EZNEC or other modeling program will illustrate this.

Which gives me an opening for one of my favorite soap box topics: dBd. If you simply accept, as most amateurs do, that 0 dBd = 2.15 dBi, then any old dipole over ground exhibits several dBd gain. The gain of a dipole relative to a dipole at the same place over the same ground is of course really zero dB. But the field strength of a dipole over ground is considerably greater than a dipole in free space (~2.15 dBi) and therefore its gain is greater than a free space dipole. This is the danger of using dBd as a reference except in free space. At least one major antenna manufacturer used this ambiguity to their advantage to give their antennas several apparent dB gain over their competitors'.

(*)A dirt ground isn't much different from a perfect ground for low angle radiation from horizontal antennas.

Roy Lewallen, W7EL

2392. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 18:32:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <fiJHl.16857$D32.8982@flpi146.ffdc.sbc.com>
Source record: 16216

-.-. --.- wrote:
> ... what decide the feed point
> modality (I or V) ??

1/4WL down from the tip is a current maximum point.
1/2WL down from the tip is a voltage maximum point.
3/4WL down from the tip is a current maximum point.
4/4WL down from the tip is a voltage maximum point.
5/4WL down from the tip is a current maximum point.

i.e., odd multiples of 1/4WL are current maximums.

i.e., even multiples of 1/4WL are voltage maximums.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2393. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 18:43:16 UTC
From: JB <nospam@goofball.net>
Message-ID: <8zJHl.2230$b11.1988@nwrddc02.gnilink.net>
Source record: 16217

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gsnk66$9c0c$1@tr22n12.aset.psu.edu...
> JB wrote:
>
> This is getting to be a bit of tit for tat, JB, and I have no illusions
> of getting you to support evolving life, and though I was once a
> creationist of sorts when I was young, that ship has long sailed in my
case.

Then you are in agreement with Carl Marx, who left seminary school after
reading Darwin's theory

> If creation science is going to be science, it is going to have to
> produce some science.

Creation Science is only scientific in it's view and interpretation of the
problems with macro evolution interpretation. It deals with review of
existing science that has been found lacking. It is not concerned
specifically with productivity nor in generating fraudulent science for the
purpose of satisfying grant requirements.

> I'd love to see some peer reviewed cites of the creationist research,
> but none seem to be forthcoming. If you have any, let me know, and I'll
> read and discuss them wit ya.
>
>
> So till then we'll just have to disagree.
>
>
> - 73 de Mike N3LI -

Your pre-conceived peers can't be trusted because of overt and hysterical
censorship by threats of character assassination and blacklisting. Evidence
that supports alternate conclusions exists outside of your search limits so
are dismissed with prejudice.

2394. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 19:00:15 UTC
From: wimabctel@tetech.nl
Message-ID: <f9d0b338-596e-486c-8410-d6234492dad6@x5g2000yqk.googlegroups.com>
Source record: 16218

On 22 abr, 20:07, "-.-. --.-" <a...@a.com> wrote:
> <wimabc...@tetech.nl> ha scritto nel
messaggionews:4f8b15b2-c559-4ef5-b641-4acbe7ae635f@x5g2000yqk.googlegroups.com...
>
> > The total impedance as seen from the coaxial feeder is the sum of the
> > antenna impedance and the impedance of your (floating) ground (for
> > example some quarter wave radials). As input impedance of thin HW
> > radiator is high, many commercial antennas do not have radials. They
> > rely on the (<< 1 kOhm) impedance of the screen of the coaxial feeder
> > or the mast/pole/roof structure, etc.
>
> Ok. Have some right input now.. so, reading also the other posters (that
> here i thanks for all the inputs...), i assume that:
>
> - thin HW monopoles have high impedance;
> - by the way, high impedance mean a Z transformer, or auto-transformer, that
> match the ~1kOhm Z of the antenna to the 50 Ohm of feed line;
> - radials are ininfluent or useless because HW monopole is a complete
> resonant antenna;
>
> What is not clear for me is "They rely on the (<< 1 kOhm) impedance of the
> screen of the coaxial feeder or the mast/pole/roof structure, etc."
> What means? That because i have a complete resonant antenna the concept of
> "ground" is only a concept of "Z in regard of what??" and because
> pole/coax/mast present for sure a much lower Z (at monopole resonant
> frequency) than the monopole itself, we (and the antenna) assume that
> pole/coax/mast is "ground zero" for us ?
>
> > Sometimes your mast/pole or cable may show resonance that increases
> > the ground impedance as seen at the antenna base to a value not far
> > below 1 kOhm. This will lead to relative high RF current in mast/pole/
> > cable screen, and because of this, significant change in radiation
> > pattern.
>
> And if i guess right in the precedent statement i wrote, in this case
> (resonant mast/pole/feed line) i lose the "ground 0" reference and in this
> case i do provide a low impedance reference to the antenna. Maybe, adding
> some radial. But this is my guess, i'm not sure if is the right thing to do.
>
> > I have a document solely on HW monopoles here:
> >http://www.tetech.nl/divers/HWmonopoleNL1.pdf.
> > It is in Dutch Language, but the comment in all graphs is in English
> > Language.
>

> Read and appreciate for what i understand inside :)
>
> I have one more (in pure newbie fashion :)) question that i append directly
> to Cecil post, but is very appreciated also a reply from all the readers of
> this thread.
>
> -.-. --.- , Cristiano, Italy

Hello Cristiano,

Please go to figure 5 of http://www.tetech.nl/divers/HWmonopoleNL1.pdf.

Look to the source at the bottom of the coaxial structure. As the impedance of the source is assumed 50 Ohms, and the cable is 50 Ohms, you may take out the source and place it between the radiator and the screen of the cable.

Then you get the circuit model in the right part of figure 5. Now you can see that the source (power comes from your transmitter) is between the radiator (Zrad) and three other impedances (that makes the ground impedance as seen from the source). So the source experiences the sum of Zrad and the three low impedances in parallel.

To avoid that the impedance seen by the source depends on the ground impedance, you want to have Zrad >> (Zscreen//Zgpr//Zgpl). For the quarter wave case (low impedance) you need Zgpr and Zgpl (impedances of two radials) to have low "ground" (counterpoise) impedance.

For the HW case, Zrad can be > 1 kOhm, in that case the radials (Zgpr, Zgpl) can be removed as the impedance of the cable screen/mast, etc is mostly below 1 kOhm.

More about the currents
For simplicity think of a coaxial feeder with solid screen far thicker then the skin depth. In such a case Ic = Isi (figure 5). Isi is pulled out of the two radials and the outer of the coaxial screen. Because in this case Zgpl and Zpgr is low (quarter wave radials) Isi is pulled out of the radials, hence you have less common mode current (Iso) on your coaxial feeder.

When you don't have radials, Isi will flow on the outside of the coaxial feeder (figure 6). As this current is as high as the radiator current (Irad), this may lead to severe problems. Figure 7 shows the situation for the HW radiator. Due to the impedance transformation, Irad' is far below the quarter wave situation, hence Iso (=Isi'). Here Iso is also the common mode current (that contributes (positively or negatively) to the overall radiation pattern of the antenna).

It is not uncommon that Irad' is about 8 times less then the current in the middle of the HW radiator.

The advantages of a HW radiator with respect to lower common mode current disappear in case of thick radiators. This is because the

input impedance of HW radiators depends on the thickness/lambda ratio.

So whether you need radials (or other provision) depends on the situation. Design goal is to get Zrad (HW case) >> Zground (Zcounterpoise).

Saluti,

Wim

2395. Re: Electrical lenght vs. phisical lenght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 19:08:58 UTC
From: "-.-. --.-" <A@A.COM>
Message-ID: <gsnq03$376$1@nnrp-beta.newsland.it>
Source record: 16219

"Cecil Moore" <nospam@w5dxp.com> ha scritto nel messaggio
news:fiJHl.16857$D32.8982@flpi146.ffdc.sbc.com...

> 5/4WL down from the tip is a current maximum point.
> i.e., odd multiples of 1/4WL are current maximums.
>
> i.e., even multiples of 1/4WL are voltage maximums.

Yep :)
My error is seeing RF "flowing" from my feed point only through the monopole
and up , not considering that an RF generator is a bipolar thing, and
feeding an antenna is ever related in respect both begin and end of the
entire antenna.
In case of my monopole, i simply forget about the other part of my antenna
:)
Sorry for the dumb question. Hope to ask more serious things.

73,
-.-. --.-, Cristiano, Italy.

2396. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 19:31:10 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <05df211a-2ad5-4b67-a99b-6df602e96a0e@r37g2000yqn.googlegroups.com>
Source record: 16220

On Apr 20, 8:43 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 20, 7:28 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
>
>
>
> > Art Unwin wrote:
> > > I made a helical end fed antenna that is inside a cone shaped
> > > reflector
> > > The reflector is made from 1/2" mesh steel with an aluminum foil liner
> > > and connected to the braid of the feed coax. No baluns are used, just
> > > direct connections.
> > > I was surprised to hear signals from the rear!
> > > I thought that a dish reflector prevented such signals getting to the
> > > receiver. So what can be wrong with the reflector or can signals get
> > > reflected back from the frontal area? Antenna is at a 40 foot height
> > > Any ideas as to what the fault could be?
> > > Regards
> > > Art
> > > I have no experience with dishes thus the question Note, the helical
> > > antenna does not protrude beyond the dish envelope.
> > > Art
>
> > What's the relative size of "reflector" and helix? (i.e. is the
> > reflector in the near field of the helix, in which case, you could
> > easily have waves propagating along the surface of the reflector)
>
> The helix is four foot long and a foot diameter. The base of the
> reflector is 1.5 feet
> with a 45 degree angle. I have had the helix 0.5 feet shorter and 0.5
> feet longer with similar results.On re examination of the antenn I now
> see that the ground lead of the radiator is connected to the inside of
> the reflector at a half way point and the coax
> ground is connected at the base of the reflector. I think I will
> change that ground connection to a common point.
> Regards
> Art

Changing the ground point did not clear up the reception from the
rear!
Have made a smaller antenna (not for top band) and mounted on a
framework on the ground. Same thing happening but band does seem
squirrily!
Have put a tilt mechanism on it and I am working on putting a rotator
on it so that I can get a better feel on things. I was going to do

this anyway as I want to see what this arrangement has on TOA. If
radiation is a matter of charged particles then penetration of dish
would change the direction of gain.....food for thought
The group can now go back to the subject of change
Regards
Art

2397. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 20:00:47 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsnt1e$e3p$1@news.service.uci.edu>
Source record: 16221

Cecil Moore wrote:
> Jim Kelley wrote:
>
>> I have the same recollection as Tom.
>
> If you do, it was from many years ago when I was young
> and foolish. :-)

Evidently some things never change. :-)

ac6xg

2398. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 20:12:34 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <2stuu4hstjmq2co3fasu32874vlvnl9q03@4ax.com>
Source record: 16222

On Wed, 22 Apr 2009 18:43:16 GMT, "JB" <nospam@goofball.net> wrote:

> Creation Science is only scientific in it's view and interpretation of the
>problems with macro evolution interpretation. It deals with review of
>existing science that has been found lacking. It is not concerned
>specifically with productivity nor in generating fraudulent science for the
>purpose of satisfying grant requirements.

Science is only religious in its view and interpretation of the
problems with claims of divine representatives. Science deals with
the review of existing religion that has been found lacking. Science
is not concerned specifically with Adam's DNA, nor in generating faith
based testimonials for the purpose of satisfying collections.

73's
Richard Clark, KB7QHC

2399. Re: 10 Meter Vertical

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 20:46:02 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <ucLHl.33580$19.27947@bignews2.bellsouth.net>
Source record: 16223

Yep, I changed my callsign again. Decided to go with the spirit of living in 4-land. I'm working my way back to NM2K, if you know what I mean?

Ed, AJ4JP

<nm5k@wt.net> wrote in message news:4d90d070-c6f6-446a-a61e-259766aa438a@x29g2000prf.googlegroups.com...
On Apr 22, 2:29 am, "Ed Cregger" <ecreg...@bellsouff.net> wrote:

>
> Ed, AJ4PJ

Did you change calls yet again? I'm confused.. :/

2400. Is brass a good antenna material?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 22:11:01 UTC
From: Steven KO6G <Steven.KO6G.4354be6@radiobanter.com>
Message-ID: <Steven.KO6G.4354be6@radiobanter.com>
Source record: 16224

I just figured out how to weld brass, so I'm building a VHF 1/4 wave vertical with some 1/8" brass rod bought at the hardware store.

I made a circle big enough for one of those VHF connectors with the threaded body, and welded 4 pieces to it act as the radials. I then filed down the end of a brass rod small enough to solder to the center conductor of the SO-239. I'm going to cover it in epoxy for strength and to keep the water out.

My question is: Will this be durable mounted outdoors? Is there a reason why brass isn't used much for antennas? What about epoxy? Am I asking for trouble here?

--
Steven KO6G

2401. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 22:45:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%5NHl.8703$im1.1729@nlpi061.nbdc.sbc.com>
Source record: 16225

Jim Kelley wrote:
> Evidently some things never change. :-)

The thing that never changes is that you always
remember to dredge up the worst about someone
even if it happened 10 years ago. Have you
always been perfect?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2402. Re: Is brass a good antenna material?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-22 23:00:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <5lj4c6-l4g.ln1@mail.specsol.com>
Source record: 16226

Steven KO6G <Steven.KO6G.4354be6@radiobanter.com> wrote:
>
> I just figured out how to weld brass, so I'm building a VHF 1/4 wave
> vertical with some 1/8" brass rod bought at the hardware store.
>
> I made a circle big enough for one of those VHF connectors with the
> threaded body, and welded 4 pieces to it act as the radials. I then
> filed down the end of a brass rod small enough to solder to the center
> conductor of the SO-239. I'm going to cover it in epoxy for strength
> and to keep the water out.
>
> My question is: Will this be durable mounted outdoors? Is there a
> reason why brass isn't used much for antennas? What about epoxy? Am I
> asking for trouble here?

Brass is heavier and more expensive than aluminum in general, so isn't
much used below UHF.

It is easier to solder to and make physical connection to than aluminum.

I've made a number of UHF antennas out of brass brazing rod and never
had a problem.

FYI, it is easier to make adapters from hobby store brass tubing than
it is to file things down.

Tubing also makes a nice extension to the rod to fine tune the length.

--
Jim Pennino

Remove .spam.sux to reply.

2403. Re: Is brass a good antenna material?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 00:52:06 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <7UOHl.32328$v8.23178@bignews3.bellsouth.net>
Source record: 16227

<jimp@specsol.spam.sux.com> wrote in message
news:5lj4c6-l4g.ln1@mail.specsol.com...
> Steven KO6G <Steven.KO6G.4354be6@radiobanter.com> wrote:
>>
>> I just figured out how to weld brass, so I'm building a VHF 1/4 wave
>> vertical with some 1/8" brass rod bought at the hardware store.
>>
>> I made a circle big enough for one of those VHF connectors with the
>> threaded body, and welded 4 pieces to it act as the radials. I then
>> filed down the end of a brass rod small enough to solder to the center
>> conductor of the SO-239. I'm going to cover it in epoxy for strength
>> and to keep the water out.
>>
>> My question is: Will this be durable mounted outdoors? Is there a
>> reason why brass isn't used much for antennas? What about epoxy? Am I
>> asking for trouble here?
>
> Brass is heavier and more expensive than aluminum in general, so isn't
> much used below UHF.
>
> It is easier to solder to and make physical connection to than aluminum.
>
> I've made a number of UHF antennas out of brass brazing rod and never
> had a problem.
>
> FYI, it is easier to make adapters from hobby store brass tubing than
> it is to file things down.
>
> Tubing also makes a nice extension to the rod to fine tune the length.
>
> --
> Jim Pennino
>
> Remove .spam.sux to reply.

After your brass/copper/bronze antenna has been tuned, etc., clean it up
well, let it dry and then spray it with Krylon clear paint. The Krylon will
prevent a patina from forming any time soon and will keep your metal shiny,
if it was shiny to begin with.

Ed, AJ4PJ

2404. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 00:56:14 UTC
From: JB <nospam@goofball.net>
Message-ID: <O0PHl.93$fy.28@nwrddc01.gnilink.net>
Source record: 16228

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:2stuu4hstjmq2co3fasu32874vlvnl9q03@4ax.com...
> On Wed, 22 Apr 2009 18:43:16 GMT, "JB" <nospam@goofball.net> wrote:
>
> > Creation Science is only scientific in it's view and interpretation of
the
> >problems with macro evolution interpretation. It deals with review of
> >existing science that has been found lacking. It is not concerned
> >specifically with productivity nor in generating fraudulent science for
the
> >purpose of satisfying grant requirements.
>
> Science is only religious in its view and interpretation of the
> problems with claims of divine representatives. Science deals with
> the review of existing religion that has been found lacking. Science
> is not concerned specifically with Adam's DNA, nor in generating faith
> based testimonials for the purpose of satisfying collections.
>
> 73's
> Richard Clark, KB7QHC

Wherever men see themselves as the authority, there is potential for
corruption in any institution. My beef is not specifically with science,
but with the arrogant who seek to re-engineer everything in the world to
their own ideal, including American society and world climate, heedless of
the damage. Is Christianity such a threat that hysterical administrators
should throw people out of school for praying, or to utter the name of
Jesus?

Oh to have the insight of Joseph or Daniel.

Let us take "Global Warming" for an example. The environmental storm
troopers are all set to institute great changes and restrictions on the way
we do business in an attempt to "correct" climate change. This might be a
good thing if it can be done without harming the economy. Why? If you will
notice, the major environmental damage around the world exists in
impoverished nations where the population lives for the day at the expense
of the future. It is a good thing to be wary for the environment if you can
afford the luxury of it. Climate change might be a good thing if we were
completely aware of all of the causes and results of it. But all
indications are, if the human race can't even reduce wasteful and hazardous
use of resources, any idea of intervention beyond that could only risk
overcorrecting since anything that can actually be set into motion seems to
have to progress to near disaster before we change course.

The Bible is a great study of the folly of man, and the only Hope for salvation.

2405. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 00:57:32 UTC
From: Brian Oakley <brian.oakley@charter.net>
Message-ID: <A1PHl.61179$_R4.59487@newsfe11.iad>
Source record: 16229

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:9ujHl.5863$Lr6.2481@flpi143.ffdc.sbc.com...
> Brian Oakley wrote:
>> Evolution does speak to origin, in the sense that it contradicts the
>> Biblical account.
>
> Sorry, but that is false. If each "day" during the
> creation is about 1.5 billion years long, there
> is no disagreement between The Bible and evolution
> engineered by God.
>
> Genesis 1:1; In the beginning, God created the
> Big Bang.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

If you look at the word "day" as it is used in the Hebrew language in the
OT, it means in almost every instance, a literal day. So why would we want
to imagine that it would mean anything else when the Bible is pretty clear.
B

2406. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 01:46:45 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49efc869$0$18867$8046368a@newsreader.iphouse.net>
Source record: 16230

Art Unwin wrote:
>
> The helix is four foot long and a foot diameter. The base of the
> reflector is 1.5 feet
<snip>
> Art

A 1 foot diameter helix would be a design for the 1 meter band, not 160.
You need to scale it up just a bit.

The diameter should be about 50 meters. The reflector should be maybe
150 meters in diameter. This is not going to fit in your back yard.

tom
K0TAR

2407. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 01:48:48 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ulgvu4peorhpdrvdg48p0i3ddug7je8302@4ax.com>
Source record: 16231

On Thu, 23 Apr 2009 00:56:14 GMT, "JB" <nospam@goofball.net> wrote:

>Wherever men see themselves as the authority, there is potential for
>corruption in any institution. My beef is not specifically with science,
>but with the arrogant who seek to re-engineer everything in the world to
>their own ideal, including American society and world climate, heedless of
>the damage. Is Christianity such a threat that hysterical administrators
>should throw people out of school for praying, or to utter the name of
>Jesus?

My beef is not specifically with religion, but with the arrogant who
seek to re-faith everything in the world to their own dogma. I won't
expand on "including" American society and world climate because that
is already explicit in "everything in the world" unless, of course,
there is some divine perspective that combines American society and
the world climate that is unshared with "everything in the world." Is
science such a threat that hysterical pulpit pounders should
excommunicate people for embracing an irrational Pi, or because
Einstein was a Jew just as much as Jesus was?

>Oh to have the insight of Joseph or Daniel.

Or any number of others....

>Let us take "Global Warming" for an example. The environmental storm
>troopers

Less than subtle holocaust framing.

>are all set to institute great changes and restrictions on the way
>we do business in an attempt to "correct" climate change. This might be a
>good thing

In light of the frame built around this picture, I doubt the sincerity
of what this "might be."

>if it can be done without harming the economy.

The only indestructible economy ran behind the iron curtain for 70
years. In the same span of time the western economy suffered many
plunges that wrecked it and the Commies smiled in their infinite
wisdom. So much for shedding tears over harming an economy.

>Why? If you will
>notice, the major environmental damage around the world exists in
>impoverished nations where the population lives for the day at the expense
>of the future.

The glorification of consumption and celebration of decadence in the
enriched nations has easily eclipsed their plight.

>It is a good thing to be wary for the environment if you can
>afford the luxury of it.

Doing nothing is vastly more expensive. The luxury card is
narcissistic.

>Climate change might be a good thing if we were
>completely aware of all of the causes and results of it.

Another limp sincerity in that "might be."

>But all
>indications are, if the human race can't even reduce wasteful and hazardous
>use of resources, any idea of intervention beyond that could only risk
>overcorrecting since anything that can actually be set into motion seems to
>have to progress to near disaster before we change course.
>
>The Bible is a great study of the folly of man, and the only Hope for
>salvation.

If the Qur'an has no hope then the gospels have been discarded in that
statement. The Torah, likewise. The Bhagavad Gita possibly
end-arounds these dismissals - but easily speaks to the issues.

73's
Richard Clark, KB7QHC

2408. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 02:42:46 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6ded1e6c-1e37-4a13-90d2-79c5336521f2@c12g2000yqc.googlegroups.com>
Source record: 16232

On Apr 22, 8:46 pm, Tom Ring <news0...@taring.org> wrote:
> Art Unwin wrote:
>
> > The helix is four foot long and a foot diameter. The base of the
> > reflector is 1.5 feet
> <snip>
> > Art
>
> A 1 foot diameter helix would be a design for the 1 meter band, not 160.
>   You need to scale it up just a bit.
>
> The diameter should be about 50 meters. The reflector should be maybe
> 150 meters in diameter. This is not going to fit in your back yard.
>
> tom
> K0TAR

Tom
What you say it should be is guided by conventional teachings and my
designs are not conventional. Per conventional teachings it would be
very large indeed which is why my design has to be different Actually
I want to see if I can lower the conventional take of angle with the
use of tipping mechanism plus the rotator addition.
With CP I may lose a bit of S meter readings but if I can lower the
TOA with the antenna on the ground that will be a big step forward.
Any way the antenna doesn't know that it should not work and despite
your comments it works OK, but as yet I have not been able to
establish the radiation patterns. So I have a antenna at around 30
feet and the other on the ground with a tipping device so the up
coming tests should be interesting.
Both antennas will cover top band and of course will have gain, but at
the moment it is TOA that I am concentrating on, after that it is
patterns
It is the journey not the destination.
Regards
Art

2409. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 02:52:02 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49efd7b5$0$18863$8046368a@newsreader.iphouse.net>
Source record: 16233

Art Unwin wrote:
> On Apr 22, 8:46 pm, Tom Ring <news0...@taring.org> wrote:
>> Art Unwin wrote:
>>
>>> The helix is four foot long and a foot diameter. The base of the
>>> reflector is 1.5 feet
>> <snip>
>>> Art
>> A 1 foot diameter helix would be a design for the 1 meter band, not 160.
>> You need to scale it up just a bit.
>>
>> The diameter should be about 50 meters. The reflector should be maybe
>> 150 meters in diameter. This is not going to fit in your back yard.
>>
>> tom
>> K0TAR
>
> Tom
> What you say it should be is guided by conventional teachings and my
> designs are not conventional. Per conventional teachings it would be
<snip>
> Art

Ok. So what have you changed from a standard helical design that makes
it "not conventional" ?

Your original description sounded pretty much like a stock 1m band
helical, so if you've done something to pull it down 160:1 in frequency,
I'd love to hear what it is. It must be simple and obvious, because you
didn't mention it in your post.

tom
K0TAR

2410. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 02:59:04 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49efd95b$0$18863$8046368a@newsreader.iphouse.net>
Source record: 16234

Tom Ring wrote:<snip>
>> Tom
>> What you say it should be is guided by conventional teachings and my
>> designs are not conventional. Per conventional teachings it would be
> <snip>
>> Art
>
> Ok. So what have you changed from a standard helical design that makes
> it "not conventional" ?
>
> Your original description sounded pretty much like a stock 1m band
> helical, so if you've done something to pull it down 160:1 in frequency,
> I'd love to hear what it is. It must be simple and obvious, because you
> didn't mention it in your post.
>
> tom
> K0TAR

Oh, I forgot.

Art, you need to google for "axial mode".

tom
K0TAR

2411. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 03:25:26 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <9ad47e33-bd66-48e2-b077-bbe71be98474@a7g2000yqk.googlegroups.com>
Source record: 16235

On Apr 22, 10:59 pm, Tom Ring <news0...@taring.org> wrote:
> Tom Ring wrote:<snip>
> >> Tom
> >> What you say it should be is guided by conventional teachings and my
> >> designs are not conventional. Per conventional teachings it would be
> > <snip>
> >> Art
>
> > Ok. So what have you changed from a standard helical design that makes
> > it "not conventional" ?
>
> > Your original description sounded pretty much like a stock 1m band
> > helical, so if you've done something to pull it down 160:1 in frequency,
> > I'd love to hear what it is. It must be simple and obvious, because you
> > didn't mention it in your post.
>
> > tom
> > K0TAR
>
> Oh, I forgot.
>
> Art, you need to google for "axial mode".
>
> tom
> K0TAR- Hide quoted text -
>
> - Show quoted text -

I tried to tell Art this but he just told me Krauus was wrong.

Jimmie

2412. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 03:33:39 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <034f15dc-eb5d-4490-b751-ca0487fbfb0f@q9g2000yqc.googlegroups.com>
Source record: 16236

On Apr 22, 9:59 pm, Tom Ring <news0...@taring.org> wrote:
> Tom Ring wrote:<snip>
> >> Tom
> >> What you say it should be is guided by conventional teachings and my
> >> designs are not conventional. Per conventional teachings it would be
> > > <snip>
> >> Art
> >
> > > Ok. So what have you changed from a standard helical design that makes
> > > it "not conventional" ?
> >
> > > Your original description sounded pretty much like a stock 1m band
> > > helical, so if you've done something to pull it down 160:1 in frequency,
> > > I'd love to hear what it is. It must be simple and obvious, because you
> > > didn't mention it in your post.
> >
> > > tom
> > > K0TAR
> >
> Oh, I forgot.
>
> Art, you need to google for "axial mode".
>
> tom
> K0TAR

Tom
I tried to share and I started with Gauss's law of statics. I never
really got into it hard because of the reaction to the first step.
Without an understanding of that first step it becomes impossible to
move further. Yes, I have made comments beyond that point but I also
left out certain factors because my work is not complete. The bottom
line is that the new antennas have been made and meet my expectations
up to this point but I have more to do. This group is not for antenna
debate it is for gottchas
by those who perceive themselves as experts and beyond the point of
debate.
Now I accept the group for what they are while enjoying my
achievements on the side.
As for you telling me what I need to do with respect to axial mode, I
know my own needs better than you.I think you will be better off
listening instead of posting starting with what Cecil has to say and
the difficulties that you are having in digesting.
Regards

Art

2413. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 05:30:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <n4a5c6-hps.ln1@mail.specsol.com>
Source record: 16237

```
Art Unwin <ArthurUnwin@gmail.com> wrote:
> On Apr 22, 8:46 pm, Tom Ring <news0...@taring.org> wrote:
>> Art Unwin wrote:
>>
>> > The helix is four foot long and a foot diameter. The base  of the
>> > reflector is 1.5 feet
>> <snip>
>> > Art
>>
>> A 1 foot diameter helix would be a design for the 1 meter band, not 160.
>>   You need to scale it up just a bit.
>>
>> The diameter should be about 50 meters.  The reflector should be maybe
>> 150 meters in diameter.  This is not going to fit in your back yard.
>>
>> tom
>> K0TAR
>
> Tom
> What you say it should be is guided by conventional teachings and my
> designs are not conventional.

To say the least...

--
Jim Pennino

Remove .spam.sux to reply.
```

2414. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 11:01:32 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <YQXHl.5960$Lr6.2997@flpi143.ffdc.sbc.com>
Source record: 16238

Brian Oakley wrote:
> If you look at the word "day" as it is used in the Hebrew language in
> the OT, it means in almost every instance, a literal day. So why would
> we want to imagine that it would mean anything else when the Bible is
> pretty clear.

How could a "literal day" possibly exist before God
created the Sun on the 4th "day"???
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2415. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 12:06:46 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <sRYHl.30731$ZP4.17372@nlpi067.nbdc.sbc.com>
Source record: 16239

Roy Lewallen wrote:
> If you look at the transmission line
> properties of a vertical, you see that the two conductors (the antenna
> and ground plane) get farther and farther apart as the distance from the
> feedpoint increases. This behaves like a transmission line whose
> impedance increases with distance from the feedpoint and, in fact, a TDR
> response shows just this characteristic. It's open circuited at the end,
> so it behaves pretty much like an open circuited transmission line,
> resulting in the same reflections and resulting standing waves you see
> on a real antenna.

The Z0 characteristic impedance that matters is the
one that exists at the coil-stinger junction which
can be estimated from the single-wire transmission
line Z0 equation. It's usually in the neighborhood
of a few hundred ohms. For instance, a #14 horizontal
wire at 30 feet has a Z0 very close to 600 ohms
according to the formula.

> One difficulty is accounting for the radiation, which
> adds resistance to the feedpoint. I've never seen an attempt at
> simulating it with distributed resistance, which I don't think would
> work except over a narrow frequency range.

I have simulated such using EZNEC's wire resistivity
option. The resistance wire simulates the radiation
"loss" from the antenna. But for a standing wave
antenna, the "loss" to radiation is only about 20%
of the total energy stored on the standing wave
antenna. Therefore, a qualitative conceptual analysis
can be done assuming lossless conditions just as it
can be done with transmission lines.

> But one
> shortcoming of many antenna transmission line analogies is the attempt
> to assign a single "average" or "effective" characteristic impedance to
> the antenna, rather than the actual varying value. This is where a lot
> of care has to be taken to assure that the model is valid in the regime
> where it's being used.

Seems EZNEC automatically compensates for the varying Z0
so all we need to estimate is the single effective Z0 at
the coil to stinger impedance discontinuity.

> There's no reason you can't also include a loading coil in the
> transmission line model, and Boyer devotes much of the second part of

> his article to doing just that. A solenoidal coil raises the
> characteristic impedance of the length of "line" it occupies, because of
> the increase in L/C ratio in that section. The traveling wave delay in
> that section of the transmission line also increases due to the
> increased LC product.

Are you saying the physics of the delay through a loading
coil changes between a traveling wave and a standing wave???
The standing wave is composed of a forward traveling wave
and a reflected traveling wave. They would experience the
same delay that you are talking about above.

So why didn't you use a traveling wave to measure the delay
through a loading coil??? Exactly how can the following
antenna current (from EZNEC) be used to calculate delay? The
current changes phase by 2.71 degrees in 90 degrees of
antenna. If the antenna was lossless, i.e. no radiation,
that current would not change phase at all.

EZNEC+ ver. 4.0
thin-wire 1/4WL vertical 4/23/2009 6:52:13 AM
--------------- CURRENT DATA ---------------
Frequency = 7.29 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97651 -0.42
3 .93005 -0.83
4 .86159 -1.19
5 .77258 -1.50
6 .66485 -1.78
7 .54059 -2.04
8 .40213 -2.28
9 .25161 -2.50
10 Open .08883 -2.71

--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2416. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 13:59:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <39cb221c-d3fa-4761-8112-b14a643ec641@37g2000yqp.googlegroups.com>
Source record: 16240

On Apr 23, 7:06 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Roy Lewallen wrote:
> > If you look at the transmission line
> > properties of a vertical, you see that the two conductors (the antenna
> > and ground plane) get farther and farther apart as the distance from the
> > feedpoint increases. This behaves like a transmission line whose
> > impedance increases with distance from the feedpoint and, in fact, a TDR
> > response shows just this characteristic. It's open circuited at the end,
> > so it behaves pretty much like an open circuited transmission line,
> > resulting in the same reflections and resulting standing waves you see
> > on a real antenna.
>
> The Z0 characteristic impedance that matters is the
> one that exists at the coil-stinger junction which
> can be estimated from the single-wire transmission
> line Z0 equation. It's usually in the neighborhood
> of a few hundred ohms. For instance, a #14 horizontal
> wire at 30 feet has a Z0 very close to 600 ohms
> according to the formula.
>
> > One difficulty is accounting for the radiation, which
> > adds resistance to the feedpoint. I've never seen an attempt at
> > simulating it with distributed resistance, which I don't think would
> > work except over a narrow frequency range.
>
> I have simulated such using EZNEC's wire resistivity
> option. The resistance wire simulates the radiation
> "loss" from the antenna. But for a standing wave
> antenna, the "loss" to radiation is only about 20%
> of the total energy stored on the standing wave
> antenna. Therefore, a qualitative conceptual analysis
> can be done assuming lossless conditions just as it
> can be done with transmission lines.
>
> > But one
> > shortcoming of many antenna transmission line analogies is the attempt
> > to assign a single "average" or "effective" characteristic impedance to
> > the antenna, rather than the actual varying value. This is where a lot
> > of care has to be taken to assure that the model is valid in the regime
> > where it's being used.
>
> Seems EZNEC automatically compensates for the varying Z0
> so all we need to estimate is the single effective Z0 at
> the coil to stinger impedance discontinuity.

>
> > There's no reason you can't also include a loading coil in the
> > transmission line model, and Boyer devotes much of the second part of
> > his article to doing just that. A solenoidal coil raises the
> > characteristic impedance of the length of "line" it occupies, because of
> > the increase in L/C ratio in that section. The traveling wave delay in
> > that section of the transmission line also increases due to the
> > increased LC product.
>
> Are you saying the physics of the delay through a loading
> coil changes between a traveling wave and a standing wave???
> The standing wave is composed of a forward traveling wave
> and a reflected traveling wave. They would experience the
> same delay that you are talking about above.
>
> So why didn't you use a traveling wave to measure the delay
> through a loading coil??? Exactly how can the following
> antenna current (from EZNEC) be used to calculate delay? The
> current changes phase by 2.71 degrees in 90 degrees of
> antenna. If the antenna was lossless, i.e. no radiation,
> that current would not change phase at all.
>
>   EZNEC+ ver. 4.0
> thin-wire 1/4WL vertical   4/23/2009   6:52:13 AM
>   --------------- CURRENT DATA ---------------
> Frequency = 7.29 MHz
> Wire No. 1:
> Segment Conn   Magnitude (A.) Phase (Deg.)
> 1   Ground   1   0.00
> 2   .97651   -0.42
> 3   .93005   -0.83
> 4   .86159   -1.19
> 5   .77258   -1.50
> 6   .66485   -1.78
> 7   .54059   -2.04
> 8   .40213   -2.28
> 9   .25161   -2.50
> 10   Open   .08883   -2.71
>
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil
The problem in this debate is that others are concentrating on
resonance
where as you are thinking in terms of anti resonance which portends to
a higher impedance and also the condition of equilibrium. When
considering the boundary law
one must recognise that momentum increases and decreases twice per
period. Thus when considering the boundary laws the negative area of

the sine wave must be placed underneath the positive area such that momentum is taken account of.
When the diagram provided by Best on this thread was shown what it described was the period was extended by the containment within the boundary and where that containment extended the period which is now longer than the period of non containment.In one case you have accelleration and deaccelleration which is depicted
as the emmission of energy or flux. Consevation of energy laws demands that for balance we must take into account the energy or flux that enters the boundary to maintain equilibrium which is depicted by the negative area of the sine wave period
such that this area is placed directly under the positive area while still remaining within the arbritrary boundary. Thus we have effectively changed the period when looking at a coil where the slow wave is now half of the original wave as is theresonant point is half of the anti resonant point which in terms of Newton and Maxwell represents the point of equilibrium. When using the resonant point in terms of relativity ie Maxwell you are seeing movement of a charge from "a" to "b" which when repeated is repetitive movement in a single direction. When using the anti resonant point the charge returns to the starting point and if time is regarded as /dt
then the charge only moves in the vertical direction. Thus in terms of Earth mass consists of energy movement in the ":z" plan and with respect to the Universe the energy movement is solely in the "x" or "y": direction until this action is equated with an action from the opposite direction as per the law of Newton. Thus like Einstein viewing the same action of Newton this thread is viewing the same problem where one is static and one is relative but never the less the same problem but relatively different. Pure physics my dear Watson viewed fron different vantage points., one takes equilibrium into account where as the other doesn't.
Not "babble"' David just an explanation per classical physics which is the sole and only root of both mechanical and electrical engineering
Best regards
Art Unwin KB9MZ xg(uk)

2417. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 14:21:57 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <bQ_Hl.25253$Ws1.11787@nlpi064.nbdc.sbc.com>
Source record: 16241

Art Unwin wrote:
> The problem in this debate is that others are concentrating on
> resonance
> where as you are thinking in terms of anti resonance which portends to
> a higher impedance and also the condition of equilibrium.

I apologize if I gave you that idea, Art. I am talking
about a physically short (38 degrees), electrically 1/4WL
(90 degrees) *resonant* antenna over mininec ground. The
feedpoint impedance is low and resistive.

In the example given, the stinger supplies 19 degrees
of phase shift, the base-loading coil supplies 19 degrees
of phase shift, and the impedance discontinuity between
the coil and the stinger provides a point phase shift that
makes up the difference between 38 degrees and 90 degrees.

As I hammer away at this concept, I am wondering if a
loaded mobile antenna can be optimized if only the correct
model is adopted. Is a high-Q loading-coil always better
than a loading-coil with a lower Q? Are fat/short loading-
coils always better than skinny/long loading-coils? Some
field measurements have cast doubt on some long-held
concepts.

But obviously the question cannot be answered as long as
some people insist on using the lumped circuit model for
the loading coil, e.g. virtually zero delay through the
coil.

I have measured the delay through a 75m bugcatcher coil.
It was approximately 25 nS, a magnitude greater than
w8ji's "measurements". It doesn't matter if my measurements
were off by 20%. The magnitude difference between my
measurements and w8ji's "measurements" is too significant
to be ignored.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2418. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 14:32:16 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <e634e1cc-7282-49d9-8e4d-cb9d92df9c78@j12g2000vbl.googlegroups.com>
Source record: 16242

Roy Lewallen wrote:

> A single conductor doesn't have a characteristic impedance -- it's the
> impedance between the two conductors of a transmission line. You can
> measure a characteristic impedance between, say, a coil and ground, but
> its value depends on the spacing between the two. If the coil is tilted
> with respect to the ground, the impedance of this two-conductor system
> will change with the position along the coil.

Roy: I understand what you are saying. But the derivation of
Characteristic Impedance in the Corum Bros. paper depends only on the
coil dimensions and number of turns; it is independent of any
relationship to other conductors or groundplanes. I also note that
ON4AA's inductance calculator predicts the "Characteristic impedance
of n=0 sheath helix waveguide mode at design frequency" based purely
on the coil geometry. The maths is a bit beyond me (trying to solve
Maxwell's equations for a solenoidal helix), but seems to bear analogy
to the derivation of the characteristic impedance of a waveguide.

I'm inclined to try to understand it better, because it's this derived
Characteristic Impedance, along with the axial Velocity Factor, that
generates the reactance values which seem such a good match to
experimental and modelled results.

Regards,
Steve G3TXQ

2419. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 15:07:58 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <kv%Hl.25254$Ws1.15260@nlpi064.nbdc.sbc.com>
Source record: 16243

steveeh131047 wrote:
> I'm inclined to try to understand it better, because it's this derived
> Characteristic Impedance, along with the axial Velocity Factor, that
> generates the reactance values which seem such a good match to
> experimental and modeled results.

Steve, you will find some old-fashioned concepts here
based on the lumped-circuit model rather than the
distributed network EM wave reflection model. One can
easily disprove the assertion that a single wire
in free space doesn't have a characteristic impedance
by asking the question: Does a single electromagnetic
wave traveling through free space (without a wire)
encounter a characteristic impedance? If so, why doesn't
a single wave traveling through a wire in free space
encounter a characteristic impedance? Of course, the
ratio of the electric field to the magnetic field,
whatever that turns out to be, is the characteristic
impedance of a single wire in free space. It, like
the characteristic impedance of free space, seems
to be a few hundred ohms.

There are lots of old wives tales asserted by the gurus
on this newsgroup. One must be careful what one accepts
as technical fact.

"A single conductor doesn't have a characteristic impedance."
is a preposterous assertion. If free space itself has a
characteristic impedance, what are the chances that a
single wire in free space would not have a characteristic
impedance??? Zero, at best??? :-)

Some will say: "Where is the return path for the current?"
I will respond: Where is the return path for the "current"
arriving from the Sun that can be captured by a solar
panel? Good Grief!
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2420. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 15:15:14 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <20670bae-f815-43b7-8dce-64bb6388094e@j12g2000vbl.googlegroups.com>
Source record: 16244

On Apr 23, 3:21 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> I have measured the delay through a 75m bugcatcher coil.
> It was approximately 25 nS, a magnitude greater than
> w8ji's "measurements". It doesn't matter if my measurements
> were off by 20%. The magnitude difference between my
> measurements and w8ji's "measurements" is too significant
> to be ignored.

Cecil: that's a VERY significant result. If I feed the dimensions of W8JI's coil into Equation 32 in the Corum Bros paper it predicts an axial Velocity Factor of 0.033. That would equate to a time delay of 24.7nS across the 10" long coil !!!!

Regards,
Steve G3TXQ

2421. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 15:25:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <uL%Hl.25255$Ws1.3314@nlpi064.nbdc.sbc.com>
Source record: 16245

steveeh131047 wrote:
> On Apr 23, 3:21 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>> I have measured the delay through a 75m bugcatcher coil.
>> It was approximately 25 nS, a magnitude greater than
>> w8ji's "measurements". It doesn't matter if my measurements
>> were off by 20%. The magnitude difference between my
>> measurements and w8ji's "measurements" is too significant
>> to be ignored.
>
> Cecil: that's a very significant result. If I feed the dimensions of
> W8JI's coil into Equation 32 in the Corum Bros. paper it predicts an
> axial Velocity Factor of 0.33. That would equate to a delay across the
> 10" long coil of 24.7nS !!!!!

Of course, you mean *0.033* for the VF of w8ji's coil which
was 10tpi, 100turn, 2" dia.

10"/12/0.033 = 25 feet equivalent to straight wire.

The VF of my Texas Bugcatcher coil is 0.02. It has 4tpi,
26turn, 6" dia.

6"/12/0.02 = 25 feet equivalent to straight wire.

These two coils have essentially equal delays at 4 MHz.
They are each very close to 0.1WL, i.e. 36 degrees.

The delay for one wavelength at 4 MHz is 250.5 nS so
each coil would have a delay of 1/10 that value or
25 nS. Everything fits the model.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2422. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 15:29:30 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <wP%HI.25258$Ws1.583@nlpi064.nbdc.sbc.com>
Source record: 16246

steveeh131047 wrote:
> Cecil: that's a VERY significant result. If I feed the dimensions of
> W8JI's coil into Equation 32 in the Corum Bros paper it predicts an
> axial Velocity Factor of 0.033. That would equate to a time delay of
> 24.7nS across the 10" long coil !!!!

One of the problems with this newsgroup is that one cannot
edit one's posting like one can over on QRZ.com. I see you
have corrected your earlier typo.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2423. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 15:42:41 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsq29g$96r$1@news.service.uci.edu>
Source record: 16248

steveeh131047 wrote:
> I've read
> various web pages and postings which argue qualitatively that things
> like "distributed capacitance" might explain some of the observations,
> but as yet I've seen no quantitative analysis which attempts to
> predict the numbers.

Hi Steve,

For a more quantitative illustration of how distributed reactance in
transmission lines causes delay see
http://www.rhombus-ind.com/dlcat/app1_pas.pdf

73, ac6xg

2424. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 15:49:07 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b15cf071-8626-451f-8311-b6a715f838dc@g1g2000yqh.googlegroups.com>
Source record: 16247

On Apr 23, 9:21 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > The problem in this debate is that others are concentrating on
> > resonance
> > where as you are thinking in terms of anti resonance which portends to
> > a higher impedance and also the condition of equilibrium.
>
> I apologize if I gave you that idea, Art. I am talking
> about a physically short (38 degrees), electrically 1/4WL
> (90 degrees) *resonant* antenna over mininec ground. The
> feedpoint impedance is low and resistive.
>
> In the example given, the stinger supplies 19 degrees
> of phase shift, the base-loading coil supplies 19 degrees
> of phase shift, and the impedance discontinuity between
> the coil and the stinger provides a point phase shift that
> makes up the difference between 38 degrees and 90 degrees.
>
> As I hammer away at this concept, I am wondering if a
> loaded mobile antenna can be optimized if only the correct
> model is adopted. Is a high-Q loading-coil always better
> than a loading-coil with a lower Q? Are fat/short loading-
> coils always better than skinny/long loading-coils? Some
> field measurements have cast doubt on some long-held
> concepts.
>
> But obviously the question cannot be answered as long as
> some people insist on using the lumped circuit model for
> the loading coil, e.g. virtually zero delay through the
> coil.
>
> I have measured the delay through a 75m bugcatcher coil.
> It was approximately 25 nS, a magnitude greater than
> w8ji's "measurements". It doesn't matter if my measurements
> were off by 20%. The magnitude difference between my
> measurements and w8ji's "measurements" is too significant
> to be ignored.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Exactly. !/4WL is not in equilibrium,a full wave length is and that is
where you are argueing past each other. Radiation is the accelleration
of a charge or a particle of energy. A half wave accelerates a charge
and the second half replaces the static particle that created the

facilities for the next radiation or application of charge.
If you only use a portion of the period then you are messing with the speed of light.
The speed of light is the time it takes for a magnetic field to be produced and the time
it takes for a magnetic field to decay which also equals the time that it takes for an electric field to be formed and decay the sum time of both being a period or the speed of time. Thus a WL is equal to equilibrium and less than that is not. Maxwells laws are valid ONLY when equilibrium is present, thus the quarrelling between the two parties.
Embroiled in the middle of that is the misconception of standing waves.
A charged particle changes direction and then returns to the starting point to constitute
a full period. If you have a 1/4 wave the charge continues its direction until half a period has passed and only then can particles be collected for sunsequent acceleration and radiation. So for half the time or 1/4 of the time for a 1/4 WL is the radiating at an angle i.e the addition of two vectors,forward and displacement current,
the rest of the time the remaining charge is the accelleration of the charge continuing
off of the end of the radiator (not bouncing back) where the energy is seen as a spark
or straight line radiation. So Cecil the debate in fact is over a series of misconceptions resulting from the omission of equilibrium which makes both sides of the debate invalid.
Regards
Art

2425. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 16:10:43 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsq3u2$9qq$1@news.service.uci.edu>
Source record: 16250

steveeh131047 wrote:

> Cecil: that's a VERY significant result. If I feed the dimensions of
> W8JI's coil into Equation 32 in the Corum Bros paper it predicts an
> axial Velocity Factor of 0.033. That would equate to a time delay of
> 24.7nS across the 10" long coil !!!!
>
> Regards,
> Steve G3TXQ

Hi Steve,

You're right. The numbers are amazingly close - almost as if his
'experimental apparatus' had calculated the result rather than measure it.

73, ac6xg

2426. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 16:16:37 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7d70123d-ae22-4423-9e38-54066b1a9b44@x3g2000yqa.googlegroups.com>
Source record: 16249

On Apr 23, 10:07 am, Cecil Moore <nos...@w5dxp.com> wrote:
> steveeh131047 wrote:
> > I'm inclined to try to understand it better, because it's this derived
> > Characteristic Impedance, along with the axial Velocity Factor, that
> > generates the reactance values which seem such a good match to
> > experimental and modeled results.
>
> Steve, you will find some old-fashioned concepts here
> based on the lumped-circuit model rather than the
> distributed network EM wave reflection model. One can
> easily disprove the assertion that a single wire
> in free space doesn't have a characteristic impedance
> by asking the question: Does a single electromagnetic
> wave traveling through free space (without a wire)
> encounter a characteristic impedance? If so, why doesn't
> a single wave traveling through a wire in free space
> encounter a characteristic impedance? Of course, the
> ratio of the electric field to the magnetic field,
> whatever that turns out to be, is the characteristic
> impedance of a single wire in free space. It, like
> the characteristic impedance of free space, seems
> to be a few hundred ohms.
>
> There are lots of old wives tales asserted by the gurus
> on this newsgroup. One must be careful what one accepts
> as technical fact.
>
> "A single conductor doesn't have a characteristic impedance."
> is a preposterous assertion. If free space itself has a
> characteristic impedance, what are the chances that a
> single wire in free space would not have a characteristic
> impedance??? Zero, at best??? :-)
>
> Some will say: "Where is the return path for the current?"
> I will respond: Where is the return path for the "current"
> arriving from the Sun that can be captured by a solar
> panel? Good Grief!
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil, reference you comment that a straight wire does NOT have a
characteristic impedance, this is one place where you misunderstanding
things. A charge rests on the surface and when it is radiating it
instantly is removed from the surface by the displacement current in

coordination with the applied current. If the radiator is not a full wave length there is no surface for a displacement current to exist thus the direction of charge is not elevated away from the surface but continuing the parallel to the surface direction which is the observed as "end effect"
If the concept of a bounce back of charge was maintained then the amount of charge
must also change as time revolves around a full period where eventually the charge
totally reaches the scource when the bouncing around coincided with a period.
Thus if the charge is in "standing wave" form the impedance changes during every circuit of the charge back to the source and that can never be. Characteristic impedance is that seen only with a closed anti resonant point or in other words at the point of equilibrium which is represented by a period.
Looking at things from a different angle, when the time varying field becomes a constant which is then the application of DC then you have a tesla coil where the spark or energy and thus radiation is parallel to the conductor and where the period covered by over shoot, a one time event, where radio radiation is shown by the area of the curve during the time of that event.
Best regards
Art

2427. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 16:26:10 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <2303002a-55a8-466e-a196-1d7b7f7ad979@m24g2000vbp.googlegroups.com>
Source record: 16101

On Apr 23, 4:42 pm, Jim Kelley <jwkel...@uci.edu> wrote:
>
> For a more quantitative illustration of how distributed reactance in
> transmission lines causes delay seehttp://www.rhombus-ind.com/dlcat/app1_pas.pdf
>
> 73, ac6xg

Jim, thanks for the reference.

Perhaps I should have expressed myself more clearly. What I've not seen, for example, is a lumped-element analysis which takes just the coil dimensions as input, and predicts theoretically - without a lot of empirical "tweaking" - the reactance at a particular frequency; particularly a frequency close to self-resonance. There may be one out there, but I've not yet found it!

In contrast, the ON4AA calculator - based on Corums' transmission-line analysis - does just that, and produces results which seem to match well the EZNEC modelling results.

Regards,
Steve G3TXQ

2428. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 16:29:23 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsq514$882a$1@tr22n12.aset.psu.edu>
Source record: 16102

Brian Oakley wrote:

AS I wrote JB This is becoming tit for tat, and we're not likely to accomplish much here, so I'll address one thing, and let you have the last word, then I bow out. Unless you want to talk the research, there isn't much point.

> "The article is titled "The Origin of Biological Information and the
> Higher Taxonomic Categories." The conclusion of the article, in brief,
> is that design explains things that natural selection cannot.
> Proceedings is a peer-reviewed publication. According to the
> then-editor, the three reviewers were all faculty members of respected
> universities and research institutions. The editor also stated that,
> while the reviewers did not agree with the conclusions, they found
> nothing scientifically invalid in the reasoning."
> http://www.allaboutscience.org/intelligent-design-peer-reviewed-faq.htm

I'm not sure who the peers are who did the review, but the main thrust of the paper is that the Cambrian period, in which differing life forms proliferated, did not have much in the way of transitional fossils before it happened. The life forms were too complex.

An explosion of new life forms after the Cryogenian is not terribly surprising, given that the earth was largely in a deep freeze during the Cryogenian.

The Ediacarian, which happened before the Cambrian, was in fact the time when many of the basic body plans that exist today came about. It recieved a bit of short shrift in the paper.

But what is interesting is the conclusion. There are some questions and interesting things about the Cambrian. We don't know everything for sure. He concludes the answer is that it must be designed. I look at it and say thanks for the idea for new research projects.

>> Here's a good idea. Instead of taking peoples money and trying to get
>> ID insertd into schools curriculum, take that money and do good research!
>
> Well, the research is out there. It seems to me that the darwinists
> dont want to even allow their science to be scrutinized.

No conspiracy needed. Let's take another and similar issue, that of Cold Fusion. When FLeischmann and Pons announced their discovery, a lot of researchers flocked to reproduce thier results. They couldn't, and cold fusion (at least at that time, was relegated to the back pages. The internet is a haven for people who say that researchers were stymied or discriminated against if they showed any evidence suggesting cold fusion

was real. And yet research goes on, if quietly. If someone comes up with cold fusion, they will be a part of history.

IF I were a biologist, and IF I thought there was any chance that Evolution wasn't real, you can bet your life I would be doing research to find out the truth. The person who discovers that will completely Rcck the entire scientific world to it's very core. And there are plenty of people out there would be willing to do the research.

But the problem is that basic research that disproves evolution is just not there. And looking at a lot of different papers and drawing a conclusion is only step one. Now that your author has made his conclusion - actually a hypothesis - synthesized from a number of other papers, he has to act on it.

The main conclusion is that the complexity of Cambrian life forms is beyond what is possible without purposful design. I would disagree, given what happened in the ediacaran age, but disagreement is how science moves forward.

Now they have to prove that

1. There are no transitional fossils

2. Come up with an adequate explanation of the lack of modern species in the fossil record.

3. A "killer" would be to find anatomically identical animals along with extinct of the same species in some provable ancient strata.

Now there is a danger in field research of item number one. Over the years, the number of transitional fossils has grown quite a bit. The Ediacaran and early Cambrian is a buzzing field at present, and there may be more transitional animals to be found.

-73 de Mike N3LI -

2429. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 17:22:52 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2ab8abad-8587-46ac-8e96-ef7b38baaa9c@j18g2000yql.googlegroups.com>
Source record: 16103

On Apr 23, 11:16 am, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 23, 10:07 am, Cecil Moore <nos...@w5dxp.com> wrote:
>
>
>
> > steveeh131047 wrote:
> > > I'm inclined to try to understand it better, because it's this derived
> > > Characteristic Impedance, along with the axial Velocity Factor, that
> > > generates the reactance values which seem such a good match to
> > > experimental and modeled results.
>
> > Steve, you will find some old-fashioned concepts here
> > based on the lumped-circuit model rather than the
> > distributed network EM wave reflection model. One can
> > easily disprove the assertion that a single wire
> > in free space doesn't have a characteristic impedance
> > by asking the question: Does a single electromagnetic
> > wave traveling through free space (without a wire)
> > encounter a characteristic impedance? If so, why doesn't
> > a single wave traveling through a wire in free space
> > encounter a characteristic impedance? Of course, the
> > ratio of the electric field to the magnetic field,
> > whatever that turns out to be, is the characteristic
> > impedance of a single wire in free space. It, like
> > the characteristic impedance of free space, seems
> > to be a few hundred ohms.
>
> > There are lots of old wives tales asserted by the gurus
> > on this newsgroup. One must be careful what one accepts
> > as technical fact.
>
> > "A single conductor doesn't have a characteristic impedance."
> > is a preposterous assertion. If free space itself has a
> > characteristic impedance, what are the chances that a
> > single wire in free space would not have a characteristic
> > impedance??? Zero, at best??? :-)
>
> > Some will say: "Where is the return path for the current?"
> > I will respond: Where is the return path for the "current"
> > arriving from the Sun that can be captured by a solar
> > panel? Good Grief!
> > --
> > 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>

> Cecil, reference you comment that a straight wire does NOT have a
> characteristic impedance, this is one place where you misunderstanding
> things. A charge rests on the surface and when it is radiating it
> instantly is removed from the surface by the displacement current in
> coordination with the applied current. If the radiator is not a full
> wave length there is no surface for a displacement current to exist
> thus the direction of charge is not elevated away from the surface but
> continuing the parallel to the surface direction which is the observed
> as "end effect"
> If the concept of a bounce back of charge was maintained then the
> amount of charge
> must also change as time revolves around a full period where
> eventually the charge
> totally reaches the scource when the bouncing around coincided with a
> period.
> Thus if the charge is in "standing wave" form the impedance changes
> during every circuit of the charge back to the source and that can
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> anti resonant point or in other words at the point of equilibrium
> which is represented by a period.
> Looking at things from a different angle, when the time varying field
> becomes a constant which is then the application of DC then you have a
> tesla coil where the spark or energy and thus radiation is parallel to
> the conductor and where the period covered by over shoot, a one time
> event, where radio radiation is shown by the area of the curve during
> the time of that event.
> Best regards
> Art

Cecil,
You based your proof of a magnetic wave in a vacuum but it is an
accelerating charge
which obviously must have mass, that is radiation ala the particle.
If you have a Tesla set up in a vacuum the speed of the particle/spark/
light is the approximation of the speed of light.(I say approximation
since I am using the metric
of Earth's vacuum and not that of the Universe) The velocity factor is
the true ratio of the mismatch with the travel of a electric current
on Earth with all its relavent factors and comparing it to the speed
of light in the average metric of vacuum of the Universe.
Bottom line is particles are part of radiation as is light, "waves"
are not involved other than a bevy of particles separated by a
fraction of a period.
Art

2430. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 17:49:25 UTC
From: JB <nospam@goofball.net>
Message-ID: <FS1Il.193$fy.89@nwrddc01.gnilink.net>
Source record: 16104

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gsq514$882a$1@tr22n12.aset.psu.edu...
> Brian Oakley wrote:
>
> AS I wrote JB This is becoming tit for tat, and we're not likely to
> accomplish much here, so I'll address one thing, and let you have the
> last word, then I bow out. Unless you want to talk the research, there
> isn't much point.
>
>
> > "The article is titled "The Origin of Biological Information and the
> > Higher Taxonomic Categories." The conclusion of the article, in brief,
> > is that design explains things that natural selection cannot.
> > Proceedings is a peer-reviewed publication. According to the
> > then-editor, the three reviewers were all faculty members of respected
> > universities and research institutions. The editor also stated that,
> > while the reviewers did not agree with the conclusions, they found
> > nothing scientifically invalid in the reasoning."
> > http://www.allaboutscience.org/intelligent-design-peer-reviewed-faq.htm
>
> I'm not sure who the peers are who did the review, but the main thrust
> of the paper is that the Cambrian period, in which differing life forms
> proliferated, did not have much in the way of transitional fossils
> before it happened. The life forms were too complex.
>
> An explosion of new life forms after the Cryogenian is not terribly
> surprising, given that the earth was largely in a deep freeze during the
> Cryogenian.
>
> The Ediacarian, which happened before the Cambrian, was in fact the time
> when many of the basic body plans that exist today came about. It
> recieved a bit of short shrift in the paper.
>
> But what is interesting is the conclusion. There are some questions and
> interesting things about the Cambrian. We don't know everything for
> sure. He concludes the answer is that it must be designed. I look at it
> and say thanks for the idea for new research projects.
>
>
> >> Here's a good idea. Instead of taking peoples money and trying to get
> >> ID insertd into schools curriculum, take that money and do good
research!
> >
> > Well, the research is out there. It seems to me that the darwinists

> > dont want to even allow their science to be scrutinized.
>
> No conspiracy needed. Let's take another and similar issue, that of Cold
> Fusion. When FLeischmann and Pons announced their discovery, a lot of
> researchers flocked to reproduce thier results. They couldn't, and cold
> fusion (at least at that time, was relegated to the back pages. The
> internet is a haven for people who say that researchers were stymied or
> discriminated against if they showed any evidence suggesting cold fusion
> was real. And yet research goes on, if quietly. If someone comes up with
> cold fusion, they will be a part of history.
>
> IF I were a biologist, and IF I thought there was any chance that
> Evolution wasn't real, you can bet your life I would be doing research
> to find out the truth. The person who discovers that will completely
> Rcck the entire scientific world to it's very core. And there are plenty
> of people out there would be willing to do the research.
>
> But the problem is that basic research that disproves evolution is just
> not there. And looking at a lot of different papers and drawing a
> conclusion is only step one. Now that your author has made his
> conclusion - actually a hypothesis - synthesized from a number of other
> papers, he has to act on it.
>
> The main conclusion is that the complexity of Cambrian life forms is
> beyond what is possible without purposful design. I would disagree,
> given what happened in the ediacaran age, but disagreement is how
> science moves forward.
>
> Now they have to prove that
>
> 1. There are no transitional fossils
>
> 2. Come up with an adequate explanation of the lack of modern species in
> the fossil record.
>
> 3. A "killer" would be to find anatomically identical animals along with
> extinct of the same species in some provable ancient strata.
>
>
> Now there is a danger in field research of item number one. Over the
> years, the number of transitional fossils has grown quite a bit. The
> Ediacaran and early Cambrian is a buzzing field at present, and there
> may be more transitional animals to be found.
>
> -73 de Mike N3LI -
>
Of course if the research is repeatable, we should have rebuilt the dinos
because we would be able to create life, recreate life, and transition it as
well. We have lots of conclusion upon conclusion upon conclusion. As with
many theoretical belief systems, we construct intricate theories upon

preconceived notions.

We don't know what gravity is but we take note of it's existence. So we construct intricate theories, but don't really know if some breakthrough will suddenly make it all clear.

We have evidence of miracles, although they are often not repeatable nor observable to a peer group. We have C14 dating that is corroborated by Geological Strata theory, but Geological Strata theory is not reliable because we assume that the Earth has been re-arranged significantly in ways we can't always explain.

I prefer to leave some things unresolved and let others devote their lives to their pursuits, but I take issue with God hating mad scientists seeking to rule the world, or enabling evil. There are those who have decided that there is no right or wrong, heaven or hell, no evil or morality and that it would be just as well if a whole lot of other people could just be food or step off the planet to leave more for the animals.

I leave it in God's hands though. He does what he wants.

2431. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 17:49:37 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <53b3c5f3-7f7d-4896-b9fa-4e0c8f4b6d22@z19g2000yqe.googlegroups.com>
Source record: 16105

On Apr 23, 11:26 am, steveeh131047 <st...@karinya.net> wrote:
> On Apr 23, 4:42 pm, Jim Kelley <jwkel...@uci.edu> wrote:
>
>
>
> > For a more quantitative illustration of how distributed reactance in
> > transmission lines causes delay seehttp://www.rhombus-ind.com/dlcat/app1_pas.pdf
>
> > 73, ac6xg
>
> Jim, thanks for the reference.
>
> Perhaps I should have expressed myself more clearly. What I've not
> seen, for example, is a lumped-element analysis which takes just the
> coil dimensions as input, and predicts theoretically - without a lot
> of empirical "tweaking" - the reactance at a particular frequency;
> particularly a frequency close to self-resonance. There may be one out
> there, but I've not yet found it!
>
> In contrast, the ON4AA calculator - based on Corums' transmission-line
> analysis - does just that, and produces results which seem to match
> well the EZNEC modelling results.
>
> Regards,
> Steve G3TXQ

That is because the transmission line is considered to be within a
arbitrary boundary
where all applicable forces equals zero, ie in equilibrium. Eznec is
also based on the condition of equilibrium as applied by Maxwell in
concert with Newton.
This group is using the conditions accounted on this Earth where as
scientific laws are based upon a Universe within a boundary and not
just the Earth. TRhat is equivalent to saying weight is the same
metric as mass !
Art

2432. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 18:34:41 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <gx2Il.15196$%54.4310@nlpi070.nbdc.sbc.com>
Source record: 16106

steveeh131047 wrote:
> On Apr 23, 4:42 pm, Jim Kelley <jwkel...@uci.edu> wrote:
>> For a more quantitative illustration of how distributed reactance in
>> transmission lines causes delay seehttp://www.rhombus-ind.com/dlcat/app1_pas.pdf
>>
>> 73, ac6xg
>
> Jim, thanks for the reference.
>
> Perhaps I should have expressed myself more clearly. What I've not
> seen, for example, is a lumped-element analysis which takes just the
> coil dimensions as input, and predicts theoretically - without a lot
> of empirical "tweaking" - the reactance at a particular frequency;
> particularly a frequency close to self-resonance. There may be one out
> there, but I've not yet found it!
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> In contrast, the ON4AA calculator - based on Corums' transmission-line
> analysis - does just that, and produces results which seem to match
> well the EZNEC modelling results.
>
> Regards,
> Steve G3TXQ
>

EZNEC is a mathematical model just as the transmission line model is
a model. EZNEC doesn't use a transmission line
analog in order to reach its conclusions. If you're really interested
in this subject, you have to read Schelkunoff and others who did the
research on this years ago. A big, honking loading coil doesn't
act much like a lumped component. It makes a pretty shabby transmission
line, too. If you want to understand it, you have to study
electromagnetics and approach it from that standpoint, which may not
be easy. Finally, a modest question: if you have EZNEC, why would you
be wasting time with something inferior? The gold standard is the gold
standard. Or are you on some philosophical quest, like Cecil?
73,
Tom Donaly, KA6RUH

2433. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 18:38:21 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a7607735-562f-4c14-8d93-f30789a092bd@d14g2000yql.googlegroups.com>
Source record: 16107

On Apr 23, 12:22 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 23, 11:16 am, Art Unwin <ArthurUn...@gmail.com> wrote:
>
>
>
> > On Apr 23, 10:07 am, Cecil Moore <nos...@w5dxp.com> wrote:
>
> > > steveeh131047 wrote:
> > > > I'm inclined to try to understand it better, because it's this derived
> > > > Characteristic Impedance, along with the axial Velocity Factor, that
> > > > generates the reactance values which seem such a good match to
> > > > experimental and modeled results.
>
> > > Steve, you will find some old-fashioned concepts here
> > > based on the lumped-circuit model rather than the
> > > distributed network EM wave reflection model. One can
> > > easily disprove the assertion that a single wire
> > > in free space doesn't have a characteristic impedance
> > > by asking the question: Does a single electromagnetic
> > > wave traveling through free space (without a wire)
> > > encounter a characteristic impedance? If so, why doesn't
> > > a single wave traveling through a wire in free space
> > > encounter a characteristic impedance? Of course, the
> > > ratio of the electric field to the magnetic field,
> > > whatever that turns out to be, is the characteristic
> > > impedance of a single wire in free space. It, like
> > > the characteristic impedance of free space, seems
> > > to be a few hundred ohms.
>
> > > There are lots of old wives tales asserted by the gurus
> > > on this newsgroup. One must be careful what one accepts
> > > as technical fact.
>
> > > "A single conductor doesn't have a characteristic impedance."
> > > is a preposterous assertion. If free space itself has a
> > > characteristic impedance, what are the chances that a
> > > single wire in free space would not have a characteristic
> > > impedance??? Zero, at best??? :-)
>
> > > Some will say: "Where is the return path for the current?"
> > > I will respond: Where is the return path for the "current"
> > > arriving from the Sun that can be captured by a solar
> > > panel? Good Grief!
> > > --

> > > 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> > Cecil, reference you comment that a straight wire does NOT have a
> > characteristic impedance, this is one place where you misunderstanding
> > things. A charge rests on the surface and when it is radiating it
> > instantly is removed from the surface by the displacement current in
> > coordination with the applied current. If the radiator is not a full
> > wave length there is no surface for a displacement current to exist
> > thus the direction of charge is not elevated away from the surface but
> > continuing the parallel to the surface direction which is the observed
> > as "end effect"
> > If the concept of a bounce back of charge was maintained then the
> > amount of charge
> > must also change as time revolves around a full period where
> > eventually the charge
> > totally reaches the scource when the bouncing around coincided with a
> > period.
> > Thus if the charge is in "standing wave" form the impedance changes
> > during every circuit of the charge back to the source and that can
> > never be. Characteristic impedance is that seen only with a closed
> > anti resonant point or in other words at the point of equilibrium
> > which is represented by a period.
> > Looking at things from a different angle, when the time varying field
> > becomes a constant which is then the application of DC then you have a
> > tesla coil where the spark or energy and thus radiation is parallel to
> > the conductor and where the period covered by over shoot, a one time
> > event, where radio radiation is shown by the area of the curve during
> > the time of that event.
> > Best regards
> > Art
>
> Cecil,
> You based your proof of a magnetic wave in a vacuum but it is an
> accelerating charge
> which obviously must have mass, that is radiation ala the particle.
> If you have a Tesla set up in a vacuum the speed of the particle/spark/
> light is the approximation of the speed of light.(I say approximation
> since I am using the metric
> of Earth's vacuum and not that of the Universe) The velocity factor is
> the true ratio of the mismatch with the travel of a electric current
> on Earth with all its relavent factors and comparing it to the speed
> of light in the average metric of vacuum of the Universe.
> Bottom line is particles are part of radiation as is light, "waves"
> are not involved other than a bevy of particles separated by a
> fraction of a period.
> Art

When students perform an experiment to proove the laws of Nature it
really does belittle seeing is believing. To change the statistics of
what we are seeing which is the situation on Earth, this alludes

the"relative" term of Einstein, then to bring what we deduced by seeing by the conversion of weight to mass. This correction thus brings in to focus what Einstein meant by relativity because it depends on the gravitational pull relative to what part of the Universe the experiment was performed. What we term as Classical physics is the behavior of the Universe and the laws that govern it. Thus mass is the carrier of potential energy where decay is synonamous with the break off of a particle which contains a portion of the potential energy where the brake off is the decelleration of the partical when it enters a different gravitational field
and thus turns to kinetic energy and where this change is seen as light i.e Kinetic energy that is transformed to heat which also governs light. Thus when considering
a perfect conductor ie zero resistance which is also a measure of the datum level of zero movement of electrons within mass there is zero movement within mass to affect the passage of current and thus the current travels at the speed of light. When temperature in not at the datum level it is the movement of electron within mass that provides the resistance to current flow and thus we have what is known as the "velocity factor", and it is the circular movement of displacement current which is also a movement of current flow that applies what we know as displacement current.
Thus there is a Universal law of nature because all things revolve about the relative movement of particles compared to that of a static particle which if the change is instantaneous we have what Hawkings calls the BIG BANG.
All of the above emphasises where all the participants of this thread are argueing about the same problem but from different relative positions within the Universe

Lesson.
All scientific debate is correlated to the whole of the Universe and not the metric datum of vacuum as represented by the size of a arbitrary fieldwithin the Universe
This is what is meant by CLASSICAL PHYSICS.
Enuff said.
Art Unwin

2434. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 19:23:55 UTC
From: JB <nospam@goofball.net>
Message-ID: <ff3ll.2433$b11.910@nwrddc02.gnilink.net>
Source record: 16108

I doubt the sincerity
> of what this "might be."
You got that right. Just exercising a line of thought.

If the Soviet economy was indestructible then it's only because people weren't. You have made my point about mad scientists, and now philosophers and other intellectuals too, considering the world holocaust that way overshadows the Nazi atrocities. It is interesting that it is always so fashionable to beat Hitler, the Monster, over and over while Stalin, Uncle Joe, and many others of his kind keeps getting a free pass.

What makes you think you wouldn't be so easily expendable as well. There would be no need for those who demoralize and destabilize after the crisis unless to maintain the crisis away from home. KGB made that policy. Notice that the "Labor Union" was the Government, Employer, Management and owned all the money, food, housing too. Call it State Capitalism or Imperialism.

If the US and the Whole World economies and environment are destroyed, it will be because of everyone trying to get something for nothing. Not a good thing for anyone to get something for nothing, nor to be envious.

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:ulgvu4peorhpdrvdg48p0i3ddug7je8302@4ax.com...
> On Thu, 23 Apr 2009 00:56:14 GMT, "JB" <nospam@goofball.net> wrote:
>
> >Wherever men see themselves as the authority, there is potential for
> >corruption in any institution. My beef is not specifically with science,
> >but with the arrogant who seek to re-engineer everything in the world to
> >their own ideal, including American society and world climate, heedless
of
> >the damage. Is Christianity such a threat that hysterical administrators
> >should throw people out of school for praying, or to utter the name of
> >Jesus?
>
> My beef is not specifically with religion, but with the arrogant who
> seek to re-faith everything in the world to their own dogma. I won't
> expand on "including" American society and world climate because that
> is already explicit in "everything in the world" unless, of course,
> there is some divine perspective that combines American society and
> the world climate that is unshared with "everything in the world." Is
> science such a threat that hysterical pulpit pounders should
> excommunicate people for embracing an irrational Pi, or because
> Einstein was a Jew just as much as Jesus was?
>
> >Oh to have the insight of Joseph or Daniel.

>
> Or any number of others....
>
> >Let us take "Global Warming" for an example. The environmental storm
> >troopers
>
> Less than subtle holocaust framing.
>
> >are all set to institute great changes and restrictions on the way
> >we do business in an attempt to "correct" climate change. This might be
a
> >good thing
>
> In light of the frame built around this picture, I doubt the sincerity
> of what this "might be."
>
> >if it can be done without harming the economy.
>
> The only indestructible economy ran behind the iron curtain for 70
> years. In the same span of time the western economy suffered many
> plunges that wrecked it and the Commies smiled in their infinite
> wisdom. So much for shedding tears over harming an economy.
>
> >Why? If you will
> >notice, the major environmental damage around the world exists in
> >impoverished nations where the population lives for the day at the
expense
> >of the future.
>
> The glorification of consumption and celebration of decadence in the
> enriched nations has easily eclipsed their plight.
>
> >It is a good thing to be wary for the environment if you can
> >afford the luxury of it.
>
> Doing nothing is vastly more expensive. The luxury card is
> narcissistic.
>
> >Climate change might be a good thing if we were
> >completely aware of all of the causes and results of it.
>
> Another limp sincerity in that "might be."
>
> >But all
> >indications are, if the human race can't even reduce wasteful and
hazardous
> >use of resources, any idea of intervention beyond that could only risk
> >overcorrecting since anything that can actually be set into motion seems
to
> >have to progress to near disaster before we change course.

> >
> >The Bible is a great study of the folly of man, and the only Hope for
> >salvation.
>
> If the Qur'an has no hope then the gospels have been discarded in that
> statement. The Torah, likewise. The Bhagavad Gita possibly
> end-arounds these dismissals - but easily speaks to the issues.
>
> 73's
> Richard Clark, KB7QHC

2435. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 19:29:39 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <f4qdnTex5486XG3UnZ2dnUVZ_s6dnZ2d@posted.easystreetonline>
Source record: 16109

steveeh131047 wrote:

> Cecil: that's a VERY significant result. If I feed the dimensions of
> W8JI's coil into Equation 32 in the Corum Bros paper it predicts an
> axial Velocity Factor of 0.033. That would equate to a time delay of
> 24.7nS across the 10" long coil !!!!
>
> Regards,
> Steve G3TXQ

Let's see how well the principles involved are understood.

What is the delay through a physically very small toroidal coil with the same inductance as the solenoidal coil? Why?

Roy Lewallen, W7EL

2436. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 19:43:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <lx3Il.12682$jZ1.12493@flpi144.ffdc.sbc.com>
Source record: 16110

Jim Kelley wrote:
> steveeh131047 wrote:
>> Cecil: that's a VERY significant result. If I feed the dimensions of
>> W8JI's coil into Equation 32 in the Corum Bros paper it predicts an
>> axial Velocity Factor of 0.033. That would equate to a time delay of
>> 24.7nS across the 10" long coil !!!!
>
> You're right. The numbers are amazingly close - almost as if his
> 'experimental apparatus' had calculated the result rather than measure it.

Why do you say "approximately 25 nS" and 24.7 nS are
amazingly close? "Approximately 25 nS" might include
an unknown measurement inaccuracy.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2437. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 19:46:06 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <6kg1v419c5q8iele8r14nvrbhk87qkh2l8@4ax.com>
Source record: 16112

On Thu, 23 Apr 2009 19:23:55 GMT, "JB" <nospam@goofball.net> wrote:

>I doubt the sincerity
>> of what this "might be."
>You got that right. Just exercising a line of thought.

I will skip the rest of the fluff.

73's
Richard Clark, KB7QHC

2438. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 19:46:57 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <UA3II.12683$jZ1.11132@flpi144.ffdc.sbc.com>
Source record: 16111

Art Unwin wrote:
> Cecil, reference you comment that a straight wire does NOT have a
> characteristic impedance, this is one place where you misunderstanding
> things.

That quote was not mine, Art, it was Roy's. My argument
is that since free space itself has a characteristic
impedance then a wire in free space must also have
a characteristic impedance and act as a waveguide
of sorts.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2439. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 19:53:21 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <0b38258e-b447-414d-8e40-5961ff718b54@s20g2000yqh.googlegroups.com>
Source record: 16113

On Apr 23, 1:34 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> steveeh131047 wrote:
> > On Apr 23, 4:42 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> >> For a more quantitative illustration of how distributed reactance in
> >> transmission lines causes delay seehttp://www.rhombus-ind.com/dlcat/app1_pas.pdf
>
> >> 73, ac6xg
>
> > Jim, thanks for the reference.
>
> > Perhaps I should have expressed myself more clearly. What I've not
> > seen, for example, is a lumped-element analysis which takes just the
> > coil dimensions as input, and predicts theoretically - without a lot
> > of empirical "tweaking" - the reactance at a particular frequency;
> > particularly a frequency close to self-resonance. There may be one out
> > there, but I've not yet found it!
>
> > In contrast, the ON4AA calculator - based on Corums' transmission-line
> > analysis - does just that, and produces results which seem to match
> > well the EZNEC modelling results.
>
> > Regards,
> > Steve G3TXQ
>
> EZNEC is a mathematical model just as the transmission line model is
> a model. EZNEC doesn't use a transmission line
> analog in order to reach its conclusions. If you're really interested
> in this subject, you have to read Schelkunoff and others who did the
> research on this years ago. A big, honking loading coil doesn't
> act much like a lumped component. It makes a pretty shabby transmission
> line, too. If you want to understand it, you have to study
> electromagnetics and approach it from that standpoint, which may not
> be easy. Finally, a modest question: if you have EZNEC, why would you
> be wasting time with something inferior? The gold standard is the gold
> standard. Or are you on some philosophical quest, like Cecil?
> 73,
> Tom Donaly, KA6RUH

Tom,TomTom.
Eznec DOES use the transmission line analogy because like Gauss it
uses an abitrary border where the contents are in equilibriumn or in a
state of balance where all forces are accounted for when a time
varying field is applied. The same goes for a transmission line where
the radiation factor is also accounted for.

The radiation force losses are accounted for by the depreciating impedance with time
which is also shown by the deprecating amplitude of occilation where each period loss of amplitude represents radiation energy. If the amplitude showed no change then you have a tank circuit without friction or other losses. No losses means perpetual motion and vica versa. If on Earth friction is always there which is also equal to the energy for an acceleration of a particle. On the reverse side, a deccelerating force on a particle represents kinetic energy as opposed to the potential energy supplied for radiation where the product is seen as light. As with a light bulb radiant heat is what we know as light. Just classical physics no less
Art

2440. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:04:02 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gsqhjj$bo6m$1@tr22n12.aset.psu.edu>
Source record: 16114

Richard Clark wrote:
> On Thu, 23 Apr 2009 19:23:55 GMT, "JB" <nospam@goofball.net> wrote:
>
>> I doubt the sincerity
>>> of what this "might be."
>> You got that right. Just exercising a line of thought.
>
> I will skip the rest of the fluff.

Just when it was getting good! We were close to hearing how the Somalian pirates believe in evolution, and I was hoping to get a Jeffrey Dahmer/evolution connection.

- 73 de Mike N3LI -

2441. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:06:35 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <eaab66fa-bdc3-423c-9f89-a53cb8149b13@c9g2000yqm.googlegroups.com>
Source record: 16115

On Apr 23, 7:34 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> Finally, a modest question: if you have EZNEC, why would you
> be wasting time with something inferior? The gold standard is the gold
> standard. Or are you on some philosophical quest, like Cecil?

Tom,

Yes I have EZNEC and recognise what a great tool it is. Its
predictions were the benchmark against which I tested the various coil
models I read about, and no-one has yet suggested that it can't be
trusted for modelling a helix.

I'm not on some "philosophical quest" - I'm just an old, retired, guy
who still likes learning and wants to understand more about how things
work; I hope that never leaves me! I stumbled on this discussion quite
by chance and tried to understand the various "positions" being taken.
Perhaps I'm over-simplifying, but it seemed to me there was a group
who favoured the transmission-line model and a group against it. I've
tried dispassionately to understand the various arguments and to form
my own conclusions.

Now here's my problem:

* The results I get using a model based on transmission-line analysis
are very close to my EZNEC predictions - not perfect, but way better
than any lumped-element analysis results
* I don't see quantitative, non-empirical, arguments being put forward
to support lumped-element analysis
* I see numeric arguments being put forward by Cecil to support a
transmission-line approach - they look convincing to me and, although
I see a lot of unpleasant personal attacks on him, I don't see any
scientific challenge to his figures
* On the other hand I see folk whose work I rate highly, seemingly
willfully to misunderstand some of the points which Cecil puts forward

Please don't think I'm trying to defend Cecil - I wouldn't be so
presumptuous, and anyway he's old enough to look after himself! I'm
just trying to understand why, what seems to me to be such a
persuasive argument, generates such opposition. Either there's some
glaring technical error here which I haven't yet spotted, or perhaps
there's a long "history" between various "personalities" of which I'm
ignorant?

Still confused,

Steve G3TXQ

2442. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:11:03 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <uX3ll.30761$ZP4.19036@nlpi067.nbdc.sbc.com>
Source record: 16116

steveeh131047 wrote:
> In contrast, the ON4AA calculator - based on Corums' transmission-line
> analysis - does just that, and produces results which seem to match
> well the EZNEC modelling results.

I don't see where that calculator gives the Z0 and VF
of the loading coil so I have generated an EXCEL file
that gives those two parameters based on the formulas
in Dr. Corum's IEEE paper. Note that 75m loading coils
are slow-wave devices with a VF in the neighborhood
of 0.02 for a Texas Bugcatcher coil or 0.033 for w8ji's
skinny 10 TPI, 2" diameter coil.

http://www.w5dxp.com/CoilZ0VF.xls
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2443. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:11:52 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsqi28erv1@news.service.uci.edu>
Source record: 16118

Cecil Moore wrote:
> Jim Kelley wrote:
>> steveeh131047 wrote:
>>> Cecil: that's a VERY significant result. If I feed the dimensions of
>>> W8JI's coil into Equation 32 in the Corum Bros paper it predicts an
>>> axial Velocity Factor of 0.033. That would equate to a time delay of
>>> 24.7nS across the 10" long coil !!!!
>>
>> You're right. The numbers are amazingly close - almost as if his
>> 'experimental apparatus' had calculated the result rather than measure
>> it.
>
> Why do you say "approximately 25 nS" and 24.7 nS are
> amazingly close?

I was being facetious.

> "Approximately 25 nS" might include
> an unknown measurement inaccuracy.

There's that, and as any good dry labber knows, it's a dead giveaway to
report a precision greater than one can actually measure. :-)

73, ac6xg

2444. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:16:04 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gsqia3$3ot$1@news.jpl.nasa.gov>
Source record: 16121

Tom Donaly wrote:
> Finally, a modest question: if you have EZNEC, why would you
> be wasting time with something inferior? The gold standard is the gold
> standard.
Perhaps more the silver or electrum standard.
EZNEC doesn't do dielectric loading, for instance. (unless you get the
Nec4 engine from Roy)
And, it's a MoM code, so things not well represented by collections of
wires aren't necessarily modeled well.

2445. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:17:39 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <1c1f2e39-70b8-45cd-9281-6089a2f2bc28@g37g2000yqn.googlegroups.com>
Source record: 16117

On Apr 23, 2:29 pm, Roy Lewallen <w...@eznec.com> wrote:
> steveeh131047 wrote:
> > Cecil: that's a VERY significant result. If I feed the dimensions of
> > W8JI's coil into Equation 32 in the Corum Bros paper it predicts an
> > axial Velocity Factor of 0.033. That would equate to a time delay of
> > 24.7nS across the 10" long coil !!!!
>
> > Regards,
> > Steve G3TXQ
>
> Let's see how well the principles involved are understood.
>
> What is the delay through a physically very small toroidal coil with the
> same inductance as the solenoidal coil? Why?
>
> Roy Lewallen, W7EL

A toroidal coil retains magnetism via hysteresis versus zero
hysteresis for a coil made of a diamagnetic material. A coil is in
equilibrium because all forces are accounted for
over one or more periods. A toroidal coil is not in equilibrium
because the energy that provides the hysterisis happens only once per
unit of time where as for equilibrium that same energy is provided for
every period and cancelled by same.
If a unit of energy is supplied to a radiator in equilibrium then the
unit of energy must be added to or increased to represent the
hysteresis lossesof the toroid The ratio of the original unit of
energy will represent the difference in time or delay required to
represent balance between the two. The above is based on a coil in the
medium of air and not magnetic core as the term "solenoid" suggests.
Roy doesn't see my posts either so somebody else has to pass this on.
Art

2446. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:17:54 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gsqidi$3ot$2@news.jpl.nasa.gov>
Source record: 16122

Roy Lewallen wrote:
> steveeh131047 wrote:
>
>> Cecil: that's a VERY significant result. If I feed the dimensions of
>> W8JI's coil into Equation 32 in the Corum Bros paper it predicts an
>> axial Velocity Factor of 0.033. That would equate to a time delay of
>> 24.7nS across the 10" long coil !!!!
>>
>> Regards,
>> Steve G3TXQ
>
> Let's see how well the principles involved are understood.
>
> What is the delay through a physically very small toroidal coil with the
> same inductance as the solenoidal coil? Why?
As in a coil wound on a toroidal magnetic core? or a air cored solenoid
bent in a circle?

2447. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:22:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <y64Il.30763$ZP4.3802@nlpi067.nbdc.sbc.com>
Source record: 16119

Art Unwin wrote:
> You based your proof of a magnetic wave in a vacuum but it is an
> accelerating charge
> which obviously must have mass, that is radiation ala the particle.

The accelerating charges are slow-moving electrons.
The RF current moves at the speed of light in the
(conductive) medium. Therefore, the RF current is
associated with photons emitted by the electrons.
Photons have zero rest mass and zero electric charge.
Photons are the particles associated with RF waves.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2448. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 20:55:08 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <49f0d5ab$0$1115$4fafbaef@reader3.news.tin.it>
Source record: 16120

Hi Owen

I would like to put a question regarding a previous discussion.

Not having your e-mail address, I have to catch you on another thread.

I report below what you wrote at that time:

QUOTE
From TLLC, the matched line loss in dB of LMR400 (a foam coax of similar OD to RG213) is
3.941e-6*f^0.5
+1.031e-11*f
The first term is due to R and the second due to G.

At 144MHz, the percentage of power lost per meter due to R is (1-10^-(3.941e-6*f^0.5)/10)*100 is 1.08%. If you do similar for G, the loss is 0.034%, so loss in R is more than 30 times loss in G
UNQUOTE

I put those formulas on a spreadsheet, but I only obtain the 0.034% figure if I change the second formula into +1.031e-5*f (instead of +1.031e-11*f)

Any comment?

Thanks and 73

Tony I0JX
Rome-Italy

2449. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:01:54 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <bH4Il.19536$as4.2640@nlpi069.nbdc.sbc.com>
Source record: 16123

Roy Lewallen wrote:
> What is the delay through a physically very small toroidal coil with the
> same inductance as the solenoidal coil? Why?

A toroidal coil cannot be modeled using the Dr. Corum
formulas. But I will take a stab at the answer.

In a physically very small toroidal coil, all the
turns are tightly coupled, i.e. the flux caused by
one coil links all of the other windings so the
delay should be quite small. In any case, one
cannot use a current with unchanging phase (referenced
to the source phase) to calculate the delay through
anything. The only phase information left in a
standing wave is in the magnitude. If the current
magnitude at the bottom of the coil is 1.0, the phase
shift is the ARCCOSine of the current magnitude at
the top of the coil for a base-loaded resonant
antenna. Actual phase measurements on the current
in standing-wave antennas is meaningless. We already
know it hardly changes at all with length. EZNEC
confirms that statement.

In an air-core solenoidal coil, like the one w8ji
used, the flux linkage tends to be associated with
adjacent turns so all the flux does not link all
the coils. Tom's coil was 100 turns, 10 TPI, 2"
diameter. The first turn was 10 inches away from
the last turn. The delay through that coil calculates
out to be about 25 nS.

If we setup a 2" transmit coil and a 2" receive
coil 10 inches away in air, the energy transfer
efficiency would be very small. I don't have a
formula for such but I assume one (or more) exists.

Bottom line: There are now formulas for calculating
the Z0 and VF of large air-core loading coils which
are known to be in the family of *slow-wave* devices.

I doubt that a toroidal coil is in the family of
slow-wave devices.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2450. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:09:30 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <IO4Il.25292$c45.14289@nlpi065.nbdc.sbc.com>
Source record: 16124

steveeh131047 wrote:

>
> Tom,
>
> Yes I have EZNEC and recognise what a great tool it is. Its
> predictions were the benchmark against which I tested the various coil
> models I read about, and no-one has yet suggested that it can't be
> trusted for modelling a helix.
>
> I'm not on some "philosophical quest" - I'm just an old, retired, guy
> who still likes learning and wants to understand more about how things
> work; I hope that never leaves me! I stumbled on this discussion quite
> by chance and tried to understand the various "positions" being taken.
> Perhaps I'm over-simplifying, but it seemed to me there was a group
> who favoured the transmission-line model and a group against it. I've
> tried dispassionately to understand the various arguments and to form
> my own conclusions.
>
> Now here's my problem:
>
> * The results I get using a model based on transmission-line analysis
> are very close to my EZNEC predictions - not perfect, but way better
> than any lumped-element analysis results
> * I don't see quantitative, non-empirical, arguments being put forward
> to support lumped-element analysis
> * I see numeric arguments being put forward by Cecil to support a
> transmission-line approach - they look convincing to me and, although
> I see a lot of unpleasant personal attacks on him, I don't see any
> scientific challenge to his figures
> * On the other hand I see folk whose work I rate highly, seemingly
> willfully to misunderstand some of the points which Cecil puts forward
>
> Please don't think I'm trying to defend Cecil - I wouldn't be so
> presumptuous, and anyway he's old enough to look after himself! I'm
> just trying to understand why, what seems to me to be such a
> persuasive argument, generates such opposition. Either there's some
> glaring technical error here which I haven't yet spotted, or perhaps
> there's a long "history" between various "personalities" of which I'm
> ignorant?
>
> Still confused,
>
> Steve G3TXQ

There aren't many people who would support a lumped-element analysis on this newsgroup. Most people know the limitations of using network theory in these circumstances. The technical arguments against Cecil's approach were offered a long time ago. This latest is just a flareup that will soon die down. You shouldn't be confused. The transmission line model of antennas is well accepted and hoary with age, particularly for bi-conical antennas (see Schelkunoff). There are a couple of other types of models with equal validity. If you really want to know the physical score, though, you have to get an electromagnetics text that discusses the integral equations that govern antenna behavior. Pay particular attention to the parts that explain why numerical methods like EZNEC have to be used for solutions rather than the symbolic math most people would expect and want.

73,
Tom Donaly, KA6RUH

2451. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:10:29 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <xb-dnTjFB8XURG3UnZ2dnUVZ_sqdnZ2d@posted.easystreetonline>
Source record: 16125

steveeh131047 wrote:
> . . .
> Now here's my problem:
>
> * The results I get using a model based on transmission-line analysis
> are very close to my EZNEC predictions - not perfect, but way better
> than any lumped-element analysis results
> * I don't see quantitative, non-empirical, arguments being put forward
> to support lumped-element analysis
> * I see numeric arguments being put forward by Cecil to support a
> transmission-line approach - they look convincing to me and, although
> I see a lot of unpleasant personal attacks on him, I don't see any
> scientific challenge to his figures
> * On the other hand I see folk whose work I rate highly, seemingly
> willfully to misunderstand some of the points which Cecil puts forward
>
> Please don't think I'm trying to defend Cecil - I wouldn't be so
> presumptuous, and anyway he's old enough to look after himself! I'm
> just trying to understand why, what seems to me to be such a
> persuasive argument, generates such opposition. Either there's some
> glaring technical error here which I haven't yet spotted, or perhaps
> there's a long "history" between various "personalities" of which I'm
> ignorant?
>
> Still confused,
>
> Steve G3TXQ

Some of your questions can be answered by doing a google groups search of this newsgroup for the topic "Current in antenna coils controversy" in 2003. There are several other lengthy threads at later dates, such as "Current across the loading coil - from scratch", "Loading coils; was : Vincent antenna", "Standing-Wave Current vs Traveling-Wave Current", and a number of threads prior to 2003.

Roy Lewallen, W7EL

2452. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:10:58 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <EP4Il.15099$hc1.2191@flpi150.ffdc.sbc.com>
Source record: 16126

Jim Kelley wrote:
> ... and as any good dry labber knows, it's a dead giveaway to
> report a precision greater than one can actually measure. :-)

I have reported no precision - my 100 MHz scope has
not been calibrated since I retired.

It doesn't take much precision to know that there's
something wrong when two measurements are a magnitude
apart or when someone asserts a 3 nS delay through
a 10 inch long slow-wave solenoid coil with a VF of
0.033. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2453. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:22:21 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <UvWdnXiFmoSNQW3UnZ2dnUVZ_vqdnZ2d@posted.easystreetonline>
Source record: 16127

Tom Donaly wrote:
>
> There aren't many people who would support a lumped-element analysis on
> this newsgroup. Most people know the limitations of using network theory
> in these circumstances. The technical arguments against Cecil's approach
> were offered a long time ago. This latest is just a flareup that will
> soon die down. You shouldn't be confused. The transmission line model of
> antennas is well accepted and hoary with age, particularly for
> bi-conical antennas (see Schelkunoff). There are a couple of other types
> of models with equal validity. If you really want to know the physical
> score, though, you have to get an electromagnetics text that discusses
> the integral equations that govern antenna behavior. Pay particular
> attention to the parts that explain why numerical methods like EZNEC
> have to be used for solutions rather than the symbolic math most people
> would expect and want.
>
> 73,
> Tom Donaly, KA6RUH

I did and do support lumped element analysis for a very small toroidal loading inductor, and extensively posted the reasons why in this newsgroup about six years ago ("Current in antenna coils controversy", 2003). Cecil and Yuri were arguing that the coil would replace some number of "degrees of antenna" and its current therefore would have a substantial phase difference between input and output ends. I made and posted careful measurements to support my statement, after which Cecil invented his "standing wave current" and went off in various directions.

Roy Lewallen, W7EL

2454. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:28:57 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BF74C1DCF643nonenowhere@61.9.191.5>
Source record: 16128

"Antonio Vernucci" <vernucci@tin.it> wrote in
news:49f0d5ab$0$1115$4fafbaef@reader3.news.tin.it:

> Hi Owen
>
> I would like to put a question regarding a previous discussion.
>
> Not having your e-mail address, I have to catch you on another thread.
>
> I report below what you wrote at that time:
>
> QUOTE
> From TLLC, the matched line loss in dB of LMR400 (a foam coax of
> similar OD to RG213) is
> 3.941e-6*f^0.5
> +1.031e-11*f
> The first term is due to R and the second due to G.
>
> At 144MHz, the percentage of power lost per meter due to R is
> (1-10^-(3.941e-6*f^0.5)/10)*100 is 1.08%. If you do similar for G, the
> loss is 0.034%, so loss in R is more than 30 times loss in G
> UNQUOTE
>
> I put those formulas on a spreadsheet, but I only obtain the 0.034%
> figure if I change the second formula into +1.031e-5*f (instead of
> +1.031e-11*f)
>
> Any comment?
>
> Thanks and 73
>
> Tony I0JX
> Rome-Italy
>
>

Ok, firstly, there was a mistake in my formula... it is missing a pair of parentheses, and should be (1-10^(-(3.941e-6*f^0.5)/10))*100.

That correctly finds 1.08%/m for R loss.

From my spreadsheet check, =(1-10^(-(0.00000000001031*f)/10))*100 correctly calculates 0.034%/m. Note the exponent of f is 1 in the G case.

Apologies for the parenthesis omission. I wrote down what I 'did' on an RPN calculator rather than copying an expression that evaluated properly.

Does this answer your question?

Owen

2455. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:30:33 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <4cqdnbG-jsFgQG3UnZ2dnUVZ_uudnZ2d@posted.easystreetonline>
Source record: 16129

Jim Lux wrote:
> Tom Donaly wrote:
>> Finally, a modest question: if you have EZNEC, why would you
>> be wasting time with something inferior? The gold standard is the gold
>> standard.
> Perhaps more the silver or electrum standard.
> EZNEC doesn't do dielectric loading, for instance. (unless you get the
> Nec4 engine from Roy)

All program types, including the demo, of EZNEC v. 4.0 and later do dielectric loading similar to NEC-4. (The method came from sources other than NEC-4.) Like the NEC-4 implementation, it's of limited accuracy and usefulness -- it's really good only for thin wire insulation of moderate permittivity.

> And, it's a MoM code, so things not well represented by collections of
> wires aren't necessarily modeled well.

Absolutely true. And it can't handle things like patch antennas or antennas printed on a PCB.

Roy Lewallen, W7EL

2456. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:32:53 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <4cqdnbC-jsEVQ23UnZ2dnUVZ_uudnZ2d@posted.easystreetonline>
Source record: 16130

Jim Lux wrote:
> Roy Lewallen wrote:
>>
>> Let's see how well the principles involved are understood.
>>
>> What is the delay through a physically very small toroidal coil with
>> the same inductance as the solenoidal coil? Why?
> As in a coil wound on a toroidal magnetic core? or a air cored solenoid
> bent in a circle?

I'll say one wound on a magnetic core, simply to keep the size small, the coupling tight, and the field confined. I don't, however, care how long a piece of wire it's wound with.

Roy Lewallen, W7EL

2457. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:36:57 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <1bc0d293-03f4-4c8f-acfd-fe43ed662397@g37g2000yqn.googlegroups.com>
Source record: 16131

On Apr 23, 10:10 pm, Roy Lewallen <w...@eznec.com> wrote:
>
> Some of your questions can be answered by doing a google groups search
> of this newsgroup for the topic "Current in antenna coils controversy"
> in 2003.

Roy, I've glanced at some of those references and it looks like
there's years of "catch-up" reading for me :)

It seems like the starting point for one of the earliest discussions
was whether or not there is a variation in current amplitude along the
length of a loading coil, with some pretty strong opinion saying that
there isn't. I don't want to go over old ground, but perhaps you can
give me a simple answer to this one question:

When I use EZNEC to model a 6ft whip above a loading coil (40T, 6"
diameter, 12" long), and look at the current distribution across the
coil at the resonant frequency of the antenna (3.79 MHz), I see 1A at
the base of the coil increasing to 1.07A at the centre of the coil and
then dropping to 0.69A at the top of the coil. My question is: "Can I
believe that I would see a similar current variation in the 'real
world', or is this some failing of EZNEC to model the antenna
properly?"

Regards,
Steve G3TXQ

2458. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:44:09 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <OqydndBwsKuwfG3UnZ2dnUVZ_rqdnZ2d@posted.easystreetonline>
Source record: 16132

steveeh131047 wrote:
>
> Roy, I've glanced at some of those references and it looks like
> there's years of "catch-up" reading for me :)
>
> It seems like the starting point for one of the earliest discussions
> was whether or not there is a variation in current amplitude along the
> length of a loading coil, with some pretty strong opinion saying that
> there isn't. I don't want to go over old ground, but perhaps you can
> give me a simple answer to this one question:
>
> When I use EZNEC to model a 6ft whip above a loading coil (40T, 6"
> diameter, 12" long), and look at the current distribution across the
> coil at the resonant frequency of the antenna (3.79 MHz), I see 1A at
> the base of the coil increasing to 1.07A at the centre of the coil and
> then dropping to 0.69A at the top of the coil. My question is: "Can I
> believe that I would see a similar current variation in the 'real
> world', or is this some failing of EZNEC to model the antenna
> properly?"
>
> Regards,
> Steve G3TXQ

Yes, you would see this in the real world. EZNEC does a very good job of modeling a wire antenna with a loading coil, provided that you model the coil as a wire helix rather than lumped "load", and you can trust the results. As I've implied, a lumped load is quite a good model for a physically small, essentially non-radiating loading coil like a toroid on a magnetic core.

Roy Lewallen, W7EL

2459. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 21:57:13 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <08fc2da5-ea09-414e-82e2-dba40449067b@f20g2000vbf.googlegroups.com>
Source record: 16133

On Apr 23, 10:44 pm, Roy Lewallen <w...@eznec.com> wrote:

> Yes, you would see this in the real world. EZNEC does a very good job of
> modeling a wire antenna with a loading coil, provided that you model the
> coil as a wire helix rather than lumped "load", and you can trust the
> results. As I've implied, a lumped load is quite a good model for a
> physically small, essentially non-radiating loading coil like a toroid
> on a magnetic core.

Roy: thanks for the unequivocal and clear answer.

Steve G3TXQ

2460. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 22:10:09 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <299eb97e-7377-4d00-a9bc-7a7dba9f70b1@j12g2000vbl.googlegroups.com>
Source record: 16134

On Apr 23, 3:22 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > You based your proof of a magnetic wave in a vacuum but it is an
> > accelerating charge
> > which obviously must have mass, that is radiation ala the particle.
>
> The accelerating charges are slow-moving electrons.
> The RF current moves at the speed of light in the
> (conductive) medium. Therefore, the RF current is
> associated with photons emitted by the electrons.
> Photons have zero rest mass and zero electric charge.
> Photons are the particles associated with RF waves.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil there you go again with the idea that zero mass and zero energy
is something that can exist which some have termed as "photons"
Point to the laws of nature that support that notion. At one time it
was the same
as a particle without mass. Presence science now state that particular
particle does have mass which is why the World spent millions for the
CERN project. Your technical expertise is built on the state of
science 50 years ago and you are now building a castle on sand or
excuses to justify your unwillingness to embrace change. It took 7
days to build the Universe by the initial expenditure of kinetic
energy which embraces the laws of nature and the concept of a cycle or
equilibrium. Remember the words" let there be light" which aligns with
energy expenditure upon mass ie everything starts with the expenditure
of energy upon or from mass it is not a chicken or egg analogy.
And it is expenditure of energy upon mass that makes it a particle
unconnected to all
mass around it such that the particle is unbound and cannot be
absorbed by another state. Lets face it, Adam and Eve knew nothing
regarding equilibrium and the notion of frequency or period. All the
work had been completed way belong that came upon the scene,, which is
why religeon exists as the sole explanation of who and what was and is
in charge with respect to the laws of nature. Again it is impossible
for something to exist without mass.
Art

2461. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 22:11:09 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BF75345870D5nonenowhere@61.9.191.5>
Source record: 16135

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote in
news:gx2Il.15196$%54.4310@nlpi070.nbdc.sbc.com:

...
> not be easy. Finally, a modest question: if you have EZNEC, why would
> you be wasting time with something inferior? The gold standard is the
> gold standard.

NEC (in whatever form) might give a good estimate of the inductance of some helices, although many practical inductors require smaller segment lengths that would normally be advised for NEC models, but it does not provide a good loss estimate in many interesting cases.

My post news:Xns9BE2B7AD962CBnonenowhere@61.9.191.5 entitled was about that topic, and apart from Jim's suggestion of a sensitivity analysis, there was no solution to evaluating the effective resistance of an inductor of closely spaced turns (so proximity effect is signficant) made from a braided round conductor and with a thin dielectric jacket. All three of these factors are, as I understand it, not modelled in NEC-2.

Owen

2462. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 22:25:28 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <12c75f76-ee9b-48d5-bca3-5682004cfbbd@r33g2000yqn.googlegroups.com>
Source record: 16136

On Apr 23, 4:10 pm, Roy Lewallen <w...@eznec.com> wrote:
> steveeh131047 wrote:
> > . . .
> > Now here's my problem:
>
> > * The results I get using a model based on transmission-line analysis
> > are very close to my EZNEC predictions - not perfect, but way better
> > than any lumped-element analysis results
> > * I don't see quantitative, non-empirical, arguments being put forward
> > to support lumped-element analysis
> > * I see numeric arguments being put forward by Cecil to support a
> > transmission-line approach - they look convincing to me and, although
> > I see a lot of unpleasant personal attacks on him, I don't see any
> > scientific challenge to his figures
> > * On the other hand I see folk whose work I rate highly, seemingly
> > willfully to misunderstand some of the points which Cecil puts forward
>
> > Please don't think I'm trying to defend Cecil - I wouldn't be so
> > presumptuous, and anyway he's old enough to look after himself! I'm
> > just trying to understand why, what seems to me to be such a
> > persuasive argument, generates such opposition. Either there's some
> > glaring technical error here which I haven't yet spotted, or perhaps
> > there's a long "history" between various "personalities" of which I'm
> > ignorant?
>
> > Still confused,
>
> > Steve G3TXQ
>
> Some of your questions can be answered by doing a google groups search
> of this newsgroup for the topic "Current in antenna coils controversy"
> in 2003. There are several other lengthy threads at later dates, such as
> "Current across the loading coil - from scratch", "Loading coils; was :
> Vincent antenna", "Standing-Wave Current vs Traveling-Wave Current", and
> a number of threads prior to 2003.
>
> Roy Lewallen, W7EL

This is so wrong. The term "wave" is an adjective and a "particle" is
a noun. An adjective is the enunciation of a function that describes a
noun.
Art

2463. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 22:29:04 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsqq3fhmq1@news.service.uci.edu>
Source record: 16137

Cecil Moore wrote:
> Jim Kelley wrote:
>> ... and as any good dry labber knows, it's a dead giveaway to report a
>> precision greater than one can actually measure. :-)
>
> I have reported no precision - my 100 MHz scope has
> not been calibrated since I retired.

Precision is the number of sig figs. You "might" have calculated three,
rounded up, and reported two.

ac6xg

2464. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 22:39:44 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <T66Il.28306$YU2.1118@nlpi066.nbdc.sbc.com>
Source record: 16138

Roy Lewallen wrote:
> I did and do support lumped element analysis for a very small toroidal
> loading inductor, and extensively posted the reasons why in this
> newsgroup about six years ago ("Current in antenna coils controversy",
> 2003). Cecil and Yuri were arguing that the coil would replace some
> number of "degrees of antenna" and its current therefore would have a
> substantial phase difference between input and output ends. I made and
> posted careful measurements to support my statement, after which Cecil
> invented his "standing wave current" and went off in various directions.

I didn't invent "standing wave current". Standing wave
current is what EZNEC displays for standing wave antennas.
Standing wave current is what Kraus describes graphically
on page 464, Figure 14-2, of "Antennas ...", 3rd edition.
Standing wave current is what Ramo and Whinnery describe
mathematically in "Fields and Waves ...".

It has been at least 5 years since I explained why
the phase of the current on a standing wave antenna cannot
be used to determine the delay in a wire or in a coil.
EZNEC, Kraus, Balanis, and Ramo and Whinnery all agree
with me and disagree with you. I explained, 5 years ago,
how the magnitude of the current can be used to calculate
the delay through a coil. All my explanations fell on
deaf ears and you called them gobblygook, or some such.

Once again, most of the current in a standing wave antenna
is of the form,

I = Imax*cos(kx)*cos(wt)

For any given time = t1, the phase of the current all up
and down the antenna does not change with x. The phase
is the same at the feedpoint, at the bottom of the coil,
at the top of the coil, and at the top of the stinger.
The phase of that current cannot be used to calculate
delay in a wire or through a coil.

You once said you were quick to admit a mistake. It has
been 5+ years since you made that conceptual mistake
and you have not admitted it yet.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2465. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 22:51:23 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Nh6Il.12695$jZ1.12225@flpi144.ffdc.sbc.com>
Source record: 16139

steveeh131047 wrote:
> I see 1A at
> the base of the coil increasing to 1.07A at the centre of the coil and
> then dropping to 0.69A at the top of the coil.

FYI Steve, five years ago I showed Roy how to estimate
the phase shift through the coil using ARCSIN(0.69) =
~46 degrees. To this day, he refuses to acknowledge
what EZNEC is telling him about current on a standing
wave antenna which is: A current phase measurement
on a standing wave antenna is meaningless. Here's a
couple of graphic that illustrate what I am saying:

http://www.w5dxp.com/coil.gif

http://www.w5dxp.com/phasor.gif

These graphs are very close to your measurements
above.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2466. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 22:54:29 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Hk6ll.12698$jZ1.6165@flpi144.ffdc.sbc.com>
Source record: 16140

Art Unwin wrote:
> Cecil there you go again with the idea that zero mass and zero energy
> is something that can exist which some have termed as "photons"
> Point to the laws of nature that support that notion.

It's part of the standard model, Art, with which I am
not about to disagree.

http://en.wikipedia.org/wiki/Standard_Model
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2467. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 23:31:16 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3b3ca49e-3f78-428e-ab28-86b35648a6a1@j18g2000yql.googlegroups.com>
Source record: 16141

On Apr 23, 4:36 pm, steveeh131047 <st...@karinya.net> wrote:
> On Apr 23, 10:10 pm, Roy Lewallen <w...@eznec.com> wrote:
>
>
>
> > Some of your questions can be answered by doing a google groups search
> > of this newsgroup for the topic "Current in antenna coils controversy"
> > in 2003.
>
> Roy, I've glanced at some of those references and it looks like
> there's years of "catch-up" reading for me :)
>
> It seems like the starting point for one of the earliest discussions
> was whether or not there is a variation in current amplitude along the
> length of a loading coil, with some pretty strong opinion saying that
> there isn't. I don't want to go over old ground, but perhaps you can
> give me a simple answer to this one question:
>
> When I use EZNEC to model a 6ft whip above a loading coil (40T, 6"
> diameter, 12" long), and look at the current distribution across the
> coil at the resonant frequency of the antenna (3.79 MHz), I see 1A at
> the base of the coil increasing to 1.07A at the centre of the coil and
> then dropping to 0.69A at the top of the coil. My question is: "Can I
> believe that I would see a similar current variation in the 'real
> world', or is this some failing of EZNEC to model the antenna
> properly?"
>
> Regards,
> Steve G3TXQ

Steve.
To determine the accuracy of Eznec first requires the use of a program
with the ability to change input so that it relates to the
requirements of Maxwell' radiation laws This means a program with an
optimiser function which adheres strictly with Maxwells laws and its
applicability produced which means all forces are accounted for. You
have then established a datum line for a radiator where all forces
are accounted for per Maxwell. When that final configuration per
Maxwell' laws emerges one should be able to insert this same
configuration into Eznec to check to see if all relative factors are
the same as that provided by the program with optimizer abilities. Any
differences that come about is a measurement of deviation from
Maxwell's laws and thus its applicability. There are other programs
that are available that are useable only for

predetermined planar forms such as the Yagi where all forces are not
accounted for
such as the Corriollis effect i.e. that force is ignored thus Maxwells
laws are not applicable.
Regards
Art
Art

2468. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 23:32:07 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <aU6Il.28308$YU2.23166@nlpi066.nbdc.sbc.com>
Source record: 16142

Jim Lux wrote:
> Tom Donaly wrote:
>> Finally, a modest question: if you have EZNEC, why would you
>> be wasting time with something inferior? The gold standard is the gold
>> standard.
> Perhaps more the silver or electrum standard.
> EZNEC doesn't do dielectric loading, for instance. (unless you get the
> Nec4 engine from Roy)
> And, it's a MoM code, so things not well represented by collections of
> wires aren't necessarily modeled well.

Nothing is perfect, but which is better, EZNEC or the Cecil-Corum method
of modeling antennas?
73,
Tom Donaly, KA6RUH

2469. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 23:44:20 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <507Il.6003$Lr6.2442@flpi143.ffdc.sbc.com>
Source record: 16144

Roy Lewallen wrote:
> Tom Donaly wrote:
>>
>> There aren't many people who would support a lumped-element analysis on
>> this newsgroup. Most people know the limitations of using network theory
>> in these circumstances. The technical arguments against Cecil's approach
>> were offered a long time ago. This latest is just a flareup that will
>> soon die down. You shouldn't be confused. The transmission line model of
>> antennas is well accepted and hoary with age, particularly for
>> bi-conical antennas (see Schelkunoff). There are a couple of other
>> types of models with equal validity. If you really want to know the
>> physical
>> score, though, you have to get an electromagnetics text that discusses
>> the integral equations that govern antenna behavior. Pay particular
>> attention to the parts that explain why numerical methods like EZNEC
>> have to be used for solutions rather than the symbolic math most
>> people would expect and want.
>>
>> 73,
>> Tom Donaly, KA6RUH
>
> I did and do support lumped element analysis for a very small toroidal
> loading inductor, and extensively posted the reasons why in this
> newsgroup about six years ago ("Current in antenna coils controversy",
> 2003). Cecil and Yuri were arguing that the coil would replace some
> number of "degrees of antenna" and its current therefore would have a
> substantial phase difference between input and output ends. I made and
> posted careful measurements to support my statement, after which Cecil
> invented his "standing wave current" and went off in various directions.
>
> Roy Lewallen, W7EL

I should have specified a large, solenoidal loading coil such as Cecil
is so fond of using. Cecil has since eschewed his "degrees of antenna"
position, but, for some reason, he keeps claiming your tests on the
small solenoid were wrong.
73,
Tom Donaly, KA6RUH

2470. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 23:54:05 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <Bc7Il.15221$%54.2303@nlpi070.nbdc.sbc.com>
Source record: 16145

Owen Duffy wrote:
> "Tom Donaly" <dtdonaly@sbcglobal.net> wrote in
> news:gx2Il.15196$%54.4310@nlpi070.nbdc.sbc.com:
>
> ...
>> not be easy. Finally, a modest question: if you have EZNEC, why would
>> you be wasting time with something inferior? The gold standard is the
>> gold standard.
>
> NEC (in whatever form) might give a good estimate of the inductance of some
> helices, although many practical inductors require smaller segment lengths
> that would normally be advised for NEC models, but it does not provide a
> good loss estimate in many interesting cases.
>
> My post news:Xns9BE2B7AD962CBnonenowhere@61.9.191.5 entitled was about that
> topic, and apart from Jim's suggestion of a sensitivity analysis, there was
> no solution to evaluating the effective resistance of an inductor of
> closely spaced turns (so proximity effect is signficant) made from a
> braided round conductor and with a thin dielectric jacket. All three of
> these factors are, as I understand it, not modelled in NEC-2.
>
> Owen

So, what does model all the factors you mentioned, and how well does the
Cecil-Corum method do in this regard?
73,
Tom Donaly, KA6RUH

2471. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-23 23:59:44 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <e4c1245c-c9f0-4712-97c6-0f963a92fc52@x31g2000prc.googlegroups.com>
Source record: 16146

On Apr 23, 2:32 pm, Roy Lewallen <w...@eznec.com> wrote:
> Jim Lux wrote:
> > Roy Lewallen wrote:
>
> >> Let's see how well the principles involved are understood.
>
> >> What is the delay through a physically very small toroidal coil with
> >> the same inductance as the solenoidal coil? Why?
> > As in a coil wound on a toroidal magnetic core? or a air cored solenoid
> > bent in a circle?
>
> I'll say one wound on a magnetic core, simply to keep the size small,
> the coupling tight, and the field confined. I don't, however, care how
> long a piece of wire it's wound with.
>
> Roy Lewallen, W7EL

There are some other configurations that I personally think are interesting to ponder. You might never actually build one this way, but you'll probably gain some insights considering it: an antenna, say a nominally 1/4 wave vertical for 40 meters made from 4" diameter aluminum tube (irrigation pipe) twenty feet long, resonated with a loading coil placed inside the tube across a gap of two or three inches in the pipe. Capacitance from the coil is almost entirely to the pipe in this case, not to the world outside the pipe, so the effect is capacitance in parallel with the coil, not as in a transmission line where the capacitance is to ground. That's a different situation than one where a coil with a diameter much larger than the antenna conductor is used, where the coil has significant capacitance to the outside world (e.g. to ground).

It's also worth considering that the charge distribution on an antenna is dynamic, so it's probably not a good idea to try to analyze the antenna as if there was the same capacitance to ground from the coil as there would be if the charge distribution on the antenna wire were static (that is, the DC case, or at a frequency that's a tiny fraction of the lowest natural resonance of the antenna system).

Analyzing exactly how even a simple wire antenna works in detail is far from trivial, and when you add in a coil that has significant physical size, it further complicates things. If you use a simplified model, it can be useful to gain insights into what's going on, but don't expect the details to be correct. Be wary about gaining insights that aren't actually true.

Cheers,
Tom

2472. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 00:00:12 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <af9e7fc4-46dc-4f7f-88d0-f68b0db70b8d@p11g2000yqe.googlegroups.com>
Source record: 16147

On Apr 23, 3:22 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > You based your proof of a magnetic wave in a vacuum but it is an
> > accelerating charge
> > which obviously must have mass, that is radiation ala the particle.
>
> The accelerating charges are slow-moving electrons.
> The RF current moves at the speed of light in the
> (conductive) medium. Therefore, the RF current is
> associated with photons emitted by the electrons.
> Photons have zero rest mass and zero electric charge.
> Photons are the particles associated with RF waves.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

You are quoting the aproach of the bookswhere it is acknowledged that
radiationn cannot fully be explained
For me I am quoting an alternative that does provide the explanation.
If current moves at the speed of light within the Universe (the
speed of light relative to Earth is slower which creates delay
compared to the former. Insertion of Plank's constant I believe is
a metric that represents the ratio of that delay)
it imparts the same speed to a static particle when impacted, where
the acceleration is determined by Newton's law u.t +f.t sq/2. Since
the particle is static the "u.t" portion equals zero and f.t.sq/2 is
the acceleration from zero to that of the speed of current of the
particle, which is a measure of the expended kinetic energy that
creates the initial format of radiation. I state again without mass
there can be no acceleration.Period
Regards
Art

2473. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 00:39:45 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BF6A97E1D923greederxprtnet@194.177.98.144>
Source record: 16143

Cecil Moore <nospam@w5dxp.com> wrote in news:YQXHl.5960$Lr6.2997
@flpi143.ffdc.sbc.com:

> Brian Oakley wrote:
>> If you look at the word "day" as it is used in the Hebrew language in
>> the OT, it means in almost every instance, a literal day. So why would
>> we want to imagine that it would mean anything else when the Bible is
>> pretty clear.
>
> How could a "literal day" possibly exist before God
> created the Sun on the 4th "day"???

He created light on the first day.

2474. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 00:40:34 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gsr1q3$u7i$1@news.jpl.nasa.gov>
Source record: 16151

Roy Lewallen wrote:

>>
>> Regards,
>> Steve G3TXQ
>
> Yes, you would see this in the real world. EZNEC does a very good job of
> modeling a wire antenna with a loading coil, provided that you model the
> coil as a wire helix rather than lumped "load", and you can trust the
> results. As I've implied, a lumped load is quite a good model for a
> physically small, essentially non-radiating loading coil like a toroid
> on a magnetic core.
>
> Roy Lewallen, W7EL

which makes perfect sense...
NEC is a MoM code and is ideally suited to calculating the current
induced in one wire by the currents in other wires. I should think it
would do an excellent job modeling a air core solenoid, especially if
the wire diameter is small compared to the spacing between turns,etc,
assuming that you don't get into numerical precision problems.

2475. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 00:42:21 UTC
From: Dave <noone@nowhere.com>
Message-ID: <NV7Il.2520$b11.776@nwrddc02.gnilink.net>
Source record: 16148

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:af9e7fc4-46dc-4f7f-88d0-f68b0db70b8d@p11g2000yqe.googlegroups.com...
>I state again

and again, and again, adding bafflegab and gobbledygook with every
iteration... I love it art, how much deeper can you go with this?

2476. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 00:43:59 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gsr20f$u7i$2@news.jpl.nasa.gov>
Source record: 16150

Roy Lewallen wrote:
> Jim Lux wrote:
>> Tom Donaly wrote:
>>> Finally, a modest question: if you have EZNEC, why would you
>>> be wasting time with something inferior? The gold standard is the gold
>>> standard.
>> Perhaps more the silver or electrum standard.
>> EZNEC doesn't do dielectric loading, for instance. (unless you get the
>> Nec4 engine from Roy)
>
> All program types, including the demo, of EZNEC v. 4.0 and later do
> dielectric loading similar to NEC-4. (The method came from sources other
> than NEC-4.) Like the NEC-4 implementation, it's of limited accuracy and
> usefulness -- it's really good only for thin wire insulation of moderate
> permittivity.

I stand corrected. Thanks.

>
>> And, it's a MoM code, so things not well represented by collections of
>> wires aren't necessarily modeled well.
>
> Absolutely true. And it can't handle things like patch antennas or
> antennas printed on a PCB.

NEC does OK at microstrip patches with air dielectric (or foam with very low permittivity). I've used it to model an array of 9 patches and the port to port coupling calculated by NEC and measured by a VNA were pretty close (within measurement uncertainty).

It's pretty darn slow at this, though (lots and lots of wires in each patch), I used lumped loads for the matching network model (capacitive probe feed)

2477. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 00:49:02 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gsr29u$6g5$1@news.jpl.nasa.gov>
Source record: 16149

Tom Donaly wrote:
> Jim Lux wrote:
>> Tom Donaly wrote:
>>> Finally, a modest question: if you have EZNEC, why would you
>>> be wasting time with something inferior? The gold standard is the gold
>>> standard.
>> Perhaps more the silver or electrum standard.
>> EZNEC doesn't do dielectric loading, for instance. (unless you get the
>> Nec4 engine from Roy)
>> And, it's a MoM code, so things not well represented by collections of
>> wires aren't necessarily modeled well.
>
> Nothing is perfect, but which is better, EZNEC or the Cecil-Corum method
> of modeling antennas?

Depends on what your modeling needs are. NEC and it's ilk are more generalized, but take more computational effort. The Corums have an analytical approximation that is reasonably good for a certain class of configurations, although I have to say that for the original Corum application of Tesla Coils, a lumped approximation gets you almost as close, at much less work, considering the usual construction tolerances in a tesla coil. Modern Tesla Coil modeling is typically done with either a lumped model or a FEM code that assumes it's axially symmetric and often an assumed voltage distribution. The assumed distribution the result of a combination of more detailed analytical modeling and some experimental measurements on real coils, and speeds up the computation drastically, while not adversely affecting the accuracy of the results (that is, the changes are less than a few percent, comparable to construction tolerances on these things).

> 73,
> Tom Donaly, KA6RUH

2478. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:04:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ye8Il.8791$im1.3124@nlpi061.nbdc.sbc.com>
Source record: 16152

Tom Donaly wrote:
> Nothing is perfect, but which is better, EZNEC or the Cecil-Corum method
> of modeling antennas?

EZNEC and the Cecil-Corum method are in agreement.
How would you measure the delay through a wire
or through a coil using the following current
reported by EZNEC through a 90 degree monopole?

EZNEC+ ver. 4.0
thin-wire 1/4WL vertical 4/23/2009 8:01:44 PM
--------------- CURRENT DATA ---------------
Frequency = 7.29 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97651 -0.42
3 .93005 -0.83
4 .86159 -1.19
5 .77258 -1.50
6 .66485 -1.78
7 .54059 -2.04
8 .40213 -2.28
9 .25161 -2.50
10 Open .08883 -2.71

Exactly how does one use a current that changes phase
by 2.71 degrees in 90 degrees of antenna to obtain
the delay through anything?

Your silence on this subject speaks volumes.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2479. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:11:21 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Gh8Il.6006$Lr6.3221@flpi143.ffdc.sbc.com>
Source record: 16153

Tom Donaly wrote:
> I should have specified a large, solenoidal loading coil such as Cecil
> is so fond of using. Cecil has since eschewed his "degrees of antenna"
> position, but, for some reason, he keeps claiming your tests on the
> small solenoid were wrong.

Yes, I have fine-tuned my concepts over the past 5 years.
What rational person would not adjust their concepts to
match the technical evidence? (It's a rhetorical question.
We all know who refuses to do that.)

Roy's tests were wrong in the sense that they were meaningless
no matter how accurate the readings. Quoting my web page:

"All of the reported conclusions based on loading coil
measurements using the current on standing-wave antennas
are conceptually flawed."
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2480. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:15:58 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsr3se$l44$1@news.service.uci.edu>
Source record: 16154

Gordon wrote:
> Cecil Moore <nospam@w5dxp.com> wrote in news:YQXHl.5960$Lr6.2997
> @flpi143.ffdc.sbc.com:
>
>> Brian Oakley wrote:
>>> If you look at the word "day" as it is used in the Hebrew language in
>>> the OT, it means in almost every instance, a literal day. So why would
>>> we want to imagine that it would mean anything else when the Bible is
>>> pretty clear.
>> How could a "literal day" possibly exist before God
>> created the Sun on the 4th "day"???
>
> He created light on the first day.

Well, consistent with that, records seem to indicate there was a big flash of it at one point. And if that was Him, then He is also responsible for all the stars and planets which subsequently coalesced. At which point there began an enormous and complex organic chemistry project which, given the amount of time He's allowed it to work, has now provided almost an infinite variety of results, including the inhabiting of at least (and perhaps only) one of the planets with intelligent life.

There are of course a variety of simplified, abridged, and age (or epoch) appropriate versions of this history, the actual scale of which is only slowing revealing itself to us. So it's apparent that if a creator created all of what is, then He is responsible for a far more intelligent design than the history books give Him the credit for; far too intelligent perhaps for us to comprehend. Or maybe He is the simple minded guy with anger management issues they wrote about hundreds of years prior to sanitation. I don't claim to know.

ac6xg

2481. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:23:36 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Kw8Il.8793$im1.6807@nlpi061.nbdc.sbc.com>
Source record: 16155

Gordon wrote:
> Cecil Moore <nospam@w5dxp.com> wrote in news:YQXHl.5960$Lr6.2997
>> How could a "literal day" possibly exist before God
>> created the Sun on the 4th "day"???
>
> He created light on the first day.

That may be, but a 24 hour day, i.e. sunrise to
sunrise, was impossible without the sun which was
created on the 4th day.

Actually, The Bible says that 1000 years in the
life of man is like one day to God. So why can't
2 billion years just as easily be like one day to
God?

The sun was indeed created about 8 billion years
after the Big Bang. 8 billion years divided by
"4 days" is indeed 2 billion years.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2482. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:34:06 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <419e03c9-03ae-428e-bbb9-a1016f67be06@f19g2000yqo.googlegroups.com>
Source record: 16156

On Apr 23, 6:59 pm, K7ITM <k7...@msn.com> wrote:
> On Apr 23, 2:32 pm, Roy Lewallen <w...@eznec.com> wrote:
>
> > Jim Lux wrote:
> > > Roy Lewallen wrote:
>
> > >> Let's see how well the principles involved are understood.
>
> > >> What is the delay through a physically very small toroidal coil with
> > >> the same inductance as the solenoidal coil? Why?
> > > As in a coil wound on a toroidal magnetic core? or a air cored solenoid
> > > bent in a circle?
>
> > I'll say one wound on a magnetic core, simply to keep the size small,
> > the coupling tight, and the field confined. I don't, however, care how
> > long a piece of wire it's wound with.
>
> > Roy Lewallen, W7EL
>
> There are some other configurations that I personally think are
> interesting to ponder. You might never actually build one this way,
> but you'll probably gain some insights considering it: an antenna,
> say a nominally 1/4 wave vertical for 40 meters made from 4" diameter
> aluminum tube (irrigation pipe) twenty feet long, resonated with a
> loading coil placed inside the tube across a gap of two or three
> inches in the pipe. Capacitance from the coil is almost entirely to
> the pipe in this case, not to the world outside the pipe, so the
> effect is capacitance in parallel with the coil, not as in a
> transmission line where the capacitance is to ground. That's a
> different situation than one where a coil with a diameter much larger
> than the antenna conductor is used, where the coil has significant
> capacitance to the outside world (e.g. to ground).
>
> It's also worth considering that the charge distribution on an antenna
> is dynamic, so it's probably not a good idea to try to analyze the
> antenna as if there was the same capacitance to ground from the coil
> as there would be if the charge distribution on the antenna wire were
> static (that is, the DC case, or at a frequency that's a tiny fraction
> of the lowest natural resonance of the antenna system).
>
> Analyzing exactly how even a simple wire antenna works in detail is
> far from trivial, and when you add in a coil that has significant
> physical size, it further complicates things. If you use a simplified
> model, it can be useful to gain insights into what's going on, but

> don't expect the details to be correct. Be wary about gaining
> insights that aren't actually true.
>
> Cheers,
> Tom

Tom you are correct in not making a descision on the basis of one observation but consideration of all the observable facts. The analogy of this is only with the use of alln segtments of a jigsaw puzzle can there be confidance of the ensuing picture.
Roy stated that his conclusion was only based on one observable and where his statement said he did not care beyond that single observable which matched a predetermined picture. An accurate production of the ensuing picture comes about only with a matching relationship between all the parts of the jigsaw and certainly not based on the visual of one. Your last sentence speaks volumes regarding Roy;'s responce
Regards
Art

2483. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:43:49 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <GsGdndFnKPbFhGzUnZ2dnUVZ_gidnZ2d@posted.easystreetonline>
Source record: 16157

Jim Lux wrote:
> Roy Lewallen wrote:
>>
>> Absolutely true. And it can't handle things like patch antennas or
>> antennas printed on a PCB.
>
> NEC does OK at microstrip patches with air dielectric (or foam with very
> low permittivity). I've used it to model an array of 9 patches and the
> port to port coupling calculated by NEC and measured by a VNA were
> pretty close (within measurement uncertainty).

Yes, I meant patch antennas with common dielectrics, which are far more common. It's of course the dielectric that NEC can't account for. I've designed quite a few antennas on PCB material, but use a fudge factor based on comparison between measured and EZNEC results of a simple antenna near the same frequency. This gets me pretty close, but even this approach wouldn't be adequate if field coupling through the dielectric is significant.

> It's pretty darn slow at this, though (lots and lots of wires in each
> patch), I used lumped loads for the matching network model (capacitive
> probe feed)

For large models, calculation time goes up as the cube of the number of segments, so big models can get slow all right. However, EZNEC has undergone a pretty dramatic speed improvement over time as various code substitutions and updated compilers have been used, and it's much, much faster than older NEC compilations. And some versions of NEC have been similarly updated, so people using different NEC compilations can experience pretty different calculation speeds.

Roy Lewallen, W7EL

2484. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:45:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7d37f439-f15d-43d7-9206-eb81f2aac96f@f19g2000yqo.googlegroups.com>
Source record: 16158

On Apr 23, 7:42 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:af9e7fc4-46dc-4f7f-88d0-f68b0db70b8d@p11g2000yqe.googlegroups.com...
>
> >I state again
>
> and again, and again, adding bafflegab and gobbledygook with every
> iteration... I love it art, how much deeper can you go with this?

Well I am following the laws of physics. Since you were asleep during
part of the lecture When the examination comes along you can only
rely on baffle gab rather than ALLthe facts given during the lecture.
Fortunately, one can graduate by providing some incorrect answers up
to a limit where as total attention is the only route to a 100 percent
score. You would be wise to accept that your knowledge on physics is
not totally without error because of the baffle gab that you provided
instead
Regards
Art

2485. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:51:41 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <505778f2-70d9-4f11-beec-dfbd39dfb0ad@z14g2000yqa.googlegroups.com>
Source record: 16159

On Apr 23, 7:49 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> Tom Donaly wrote:
> > Jim Lux wrote:
> >> Tom Donaly wrote:
> >>> Finally, a modest question: if you have EZNEC, why would you
> >>> be wasting time with something inferior? The gold standard is the gold
> >>> standard.
> >> Perhaps more the silver or electrum standard.
> >> EZNEC doesn't do dielectric loading, for instance. (unless you get the
> >> Nec4 engine from Roy)
> >> And, it's a MoM code, so things not well represented by collections of
> >> wires aren't necessarily modeled well.
>
> > Nothing is perfect, but which is better, EZNEC or the Cecil-Corum method
> > of modeling antennas?
>
> Depends on what your modeling needs are. NEC and it's ilk are more
> generalized, but take more computational effort. The Corums have an
> analytical approximation that is reasonably good for a certain class of
> configurations, although I have to say that for the original Corum
> application of Tesla Coils, a lumped approximation gets you almost as
> close, at much less work, considering the usual construction tolerances
> in a tesla coil. Modern Tesla Coil modeling is typically done with
> either a lumped model or a FEM code that assumes it's axially symmetric
> and often an assumed voltage distribution. The assumed distribution the
> result of a combination of more detailed analytical modeling and some
> experimental measurements on real coils, and speeds up the computation
> drastically, while not adversely affecting the accuracy of the results
> (that is, the changes are less than a few percent, comparable to
> construction tolerances on these things).
>
> > 73,
> > Tom Donaly, KA6RUH

You are correct in pointing out that a Tesla coil is a lumped
inductance. A "preponderance" of a lumped load disqualifies the use of
Maxwell's statements
The only metrics he supplied to justify the presence of equilibrium
were distributed loads and no more.
Regards
Art

2486. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 01:57:08 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <36a64538-6c0b-4496-89f5-b12e20f9b66a@m19g2000yqk.googlegroups.com>
Source record: 16160

On Apr 23, 7:40 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> Roy Lewallen wrote:
>
> >> Regards,
> >> Steve G3TXQ
>
> > > Yes, you would see this in the real world. EZNEC does a very good job of
> > > modeling a wire antenna with a loading coil, provided that you model the
> > > coil as a wire helix rather than lumped "load", and you can trust the
> > > results. As I've implied, a lumped load is quite a good model for a
> > > physically small, essentially non-radiating loading coil like a toroid
> > > on a magnetic core.
>
> > > Roy Lewallen, W7EL
>
> which makes perfect sense...
> NEC is a MoM code and is ideally suited to calculating the current
> induced in one wire by the currents in other wires. I should think it
> would do an excellent job modeling a air core solenoid, especially if
> the wire diameter is small compared to the spacing between turns,etc,
> assuming that you don't get into numerical precision problems.

If eznec does not take into account dielectric loading then the
application is not in equilibrium and thus Maxwells laws are not
applicable. Maxwells laws are based solely on the presence of
equilibrium or accountability of all loads applied which when all are
added equals zero per Newtons laws.
Regards
Art

2487. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 02:05:16 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e9ff82ed-8891-4f02-87e5-99c0c1f6f815@f19g2000yqh.googlegroups.com>
Source record: 16161

On Apr 23, 8:43 pm, Roy Lewallen <w...@eznec.com> wrote:
> Jim Lux wrote:
> > Roy Lewallen wrote:
>
> >> Absolutely true. And it can't handle things like patch antennas or
> >> antennas printed on a PCB.
>
> > NEC does OK at microstrip patches with air dielectric (or foam with very
> > low permittivity). I've used it to model an array of 9 patches and the
> > port to port coupling calculated by NEC and measured by a VNA were
> > pretty close (within measurement uncertainty).
>
> Yes, I meant patch antennas with common dielectrics, which are far more
> common. It's of course the dielectric that NEC can't account for. I've
> designed quite a few antennas on PCB material, but use a fudge factor
> based on comparison between measured and EZNEC results of a simple
> antenna near the same frequency. This gets me pretty close, but even
> this approach wouldn't be adequate if field coupling through the
> dielectric is significant.
Exactly. Maxwells law application is solely on the condition of all
forces be accounted for such that the summation is equal zero.
Omission of consideration of a force that is present prevents the
summation from equaling zero which means the creation of an error.
Very simple my dear Watson. This is tantamount to creating an abitrary
border where one omits recording the full amount of flux created.
Regards
Art
>
> > It's pretty darn slow at this, though (lots and lots of wires in each
> > patch), I used lumped loads for the matching network model (capacitive
> > probe feed)
>
> For large models, calculation time goes up as the cube of the number of
> segments, so big models can get slow all right. However, EZNEC has
> undergone a pretty dramatic speed improvement over time as various code
> substitutions and updated compilers have been used, and it's much, much
> faster than older NEC compilations. And some versions of NEC have been
> similarly updated, so people using different NEC compilations can
> experience pretty different calculation speeds.
>
> Roy Lewallen, W7EL

2488. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 02:21:43 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <8n9ll.15228$%54.13782@nlpi070.nbdc.sbc.com>
Source record: 16162

K7ITM wrote:
> On Apr 23, 2:32 pm, Roy Lewallen <w...@eznec.com> wrote:
>> Jim Lux wrote:
>>> Roy Lewallen wrote:
>>>> Let's see how well the principles involved are understood.
>>>> What is the delay through a physically very small toroidal coil with
>>>> the same inductance as the solenoidal coil? Why?
>>> As in a coil wound on a toroidal magnetic core? or a air cored solenoid
>>> bent in a circle?
>> I'll say one wound on a magnetic core, simply to keep the size small,
>> the coupling tight, and the field confined. I don't, however, care how
>> long a piece of wire it's wound with.
>>
>> Roy Lewallen, W7EL
>
> There are some other configurations that I personally think are
> interesting to ponder. You might never actually build one this way,
> but you'll probably gain some insights considering it: an antenna,
> say a nominally 1/4 wave vertical for 40 meters made from 4" diameter
> aluminum tube (irrigation pipe) twenty feet long, resonated with a
> loading coil placed inside the tube across a gap of two or three
> inches in the pipe. Capacitance from the coil is almost entirely to
> the pipe in this case, not to the world outside the pipe, so the
> effect is capacitance in parallel with the coil, not as in a
> transmission line where the capacitance is to ground. That's a
> different situation than one where a coil with a diameter much larger
> than the antenna conductor is used, where the coil has significant
> capacitance to the outside world (e.g. to ground).
>
> It's also worth considering that the charge distribution on an antenna
> is dynamic, so it's probably not a good idea to try to analyze the
> antenna as if there was the same capacitance to ground from the coil
> as there would be if the charge distribution on the antenna wire were
> static (that is, the DC case, or at a frequency that's a tiny fraction
> of the lowest natural resonance of the antenna system).
>
> Analyzing exactly how even a simple wire antenna works in detail is
> far from trivial, and when you add in a coil that has significant
> physical size, it further complicates things. If you use a simplified
> model, it can be useful to gain insights into what's going on, but
> don't expect the details to be correct. Be wary about gaining
> insights that aren't actually true.
>
> Cheers,

> Tom

I didn't do exactly as you say, Tom, but I did take a homemade coil
(140mm long, 155mm in diameter) and wrapped it with a sheet of .005 inch
copper foil separated by a couple of strips of double sided foam tape.
It acted more like a transmission line than the bare coil, but it had
some peculiarities that made its behavior puzzling to say the least.
73,
Tom Donaly, KA6RUH

2489. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 02:24:43 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <Mp9II.15229$%54.5972@nlpi070.nbdc.sbc.com>
Source record: 16163

Jim Kelley wrote:
> Gordon wrote:
...

> Well, consistent with that, records seem to indicate there was a big
> flash of it at one point. And if that was Him, then He is also
> responsible for all the stars and planets which subsequently coalesced.
> At which point there began an enormous and complex organic chemistry
> project which, given the amount of time He's allowed it to work, has now
> provided almost an infinite variety of results, including the inhabiting
> of at least (and perhaps only) one of the planets with intelligent life.
> ....
>
> ac6xg

Which planet was that?
73,
Tom Donaly, KA6RUH

2490. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 03:21:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8ea7a595-7075-4ac7-9105-0cf4086363b5@z5g2000yqn.googlegroups.com>
Source record: 16164

On Apr 5, 6:50 pm, Owen Duffy <n...@no.where> wrote:
> xra...@earthlink.net wrote in news:a706ece1-d519-47d0-8ffe-8e76cf03ff66
> @z16g2000prd.googlegroups.com:
>
> > I always assumed having more 1/2 elements in a collinear was best,
> > because that obviously raises gain and lowers angle. So from that
> > point of view, I was thinking that it would actually be better to use
> > a low VF coax, since that would give you shorter length elements, thus
> > being able to fit more elements in a shorter space. But I've also read
> > that having the element lengths closer to actual 1/2 length (longer)
> > is actually more efficient than having more elements at a shorter (low
> > VF) length. Just wondering what people's opinion is on this... So lets
> > say you have a choice between using the insulated center conductor of
> > a VF 78 coax through brass tube outer elements and having room for a
> > few extra elements in a given length, verses using just an insulated
> > wire that has a 99 VF through brass tube outer elements, thereby
> > allowing slightly less elements because they're longer, but the
> > elements you do have are closer to actual 1/2 length. Which would be
> > best? And this is basically various UHF bands we're talking about.
>
> Dave,
>
> The popular explanation for these things constructed with reversing coax
> sections is that the currents all along the vertical are (exactly) in
> phase.
>
> That explanation doesn't seem consistent with the nominal half wave
> elements being in fact a halfwave at VF=0.67, ie about two thirds the
> length. Nor does it deal with the fact that the element ends are
> connected to each other, ie no charge difference permitted.
>
> I have been playing with an NEC model of eight half wave
> elements using RG213. The currents are certainly not exactly in phase,
> not nearly, and the gain in freespace at 6dBi is less than I see claimed
> for this antenna. People seem to justify a claim of dB gain as 3dB for 2
> elements, 6dB for 4 elements, 9dB for 8 elements... in which case they
> must mean gain to be wrt a dipole, and therefore gain of 8 half waves
> would be 11.2dBi... very sus, too simplistic.
>
> You asked specifically about efficiency. The efficiency in my NEC model
> (which includes internal loss in the RG213) is very good, >99%.
>
> Confusing part is that some of the designs have a half wave sticking out
> the top, and others a quarter wave, similarly different treatments at the

> bottom, and they aren't consistent about whether the coax breaks at or
> near voltage maxima or minima.
>
> I am still working on this, I suspect the antenna doesn't quite work as
> often explained, and not nearly as good as claimed.
>
> Owen

Owen you make a very good point by alluding that the zero cross over
point is not 50% of a the time for a full period but 0.67 % of a
period.Thus if a tank circuit is inclusive of a radiation period this
represent a difference in speed or time with respect to charging and
discharging of lumped loads both of which must be included
to achieve equilibrium in the absence of friction (perpetual motion)
Thus the peak
amplitude of the resulting occillation at a particular frequency
determines the characteristic impedance when resonance occurs at that
frequency. In the real world on Earth occillation without friction is
impossible thus frequency losses are in parabolic or additive form
with the change in the number of periods which equates to frequency.
Thus the 0.67 cross over point represents the difference of time
between kinetic and potential energy accomodation which produces a
curve that deviates from a true sinosoidal curve. Since NEC is formed
on the condition that the exchange time between potential and kinetic
exchange are equal i.e sinosoidal then the results obtained have an
inherrent error ie assumtion is different from the factual. ie not
truelly sinosoidal.
Regards
Art

2491. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 04:21:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <960a524d-1b03-4538-a42b-971284250d86@a7g2000yqk.googlegroups.com>
Source record: 16165

On Apr 23, 8:04 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Tom Donaly wrote:
> > Nothing is perfect, but which is better, EZNEC or the Cecil-Corum method
> > of modeling antennas?
>
> EZNEC and the Cecil-Corum method are in agreement.
Correct but the solution is in error as equilibrium demands that the
radiator is in equilibrium ie equal to a period or multiples there of.
Both of the above determined that resonance alone without reference
to the period was a reflection of equilibrium.
This may account for Krauss's error in determiming gain via Maxwells
law by determining a half wave was in equilibrium and thus determined
gain was approx
3db more than that was actually attainable. Later measurements mad by
others show that Kraus over estimated the gain by 100 % the equivalent
of 3db or the doubling of gain or energy expenditure.This error is
actually a reflection of pitch of windings which is a fraction of the
possible generated electric field for maximum efficiency.

Lesson
One must account for all actual vectors used within a boundary for
equilibrium
where the addition of all vectors finish at the starting point of the
period. The idea that a coil does not radiate is fallacious since the
charge is still accelerating but to a lesser extent than when current
moves along a straight wire. The total velocity factor is the average
velocity of that of a slow wave plus the velocity without the addition
of lumped loads ie straight radiator addition.This being equal to the
total length of wire
required with tha absence of lumped loading ie straight.
Regards
Art

> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2492. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 04:29:07 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <nebll.82305$TD1.30664@newsfe18.iad>
Source record: 16166

"Jim Kelley" <jwkelley@uci.edu> wrote in message
news:gsq29g$96r$1@news.service.uci.edu...

> For a more quantitative illustration of how distributed reactance in
> transmission lines causes delay see
> http://www.rhombus-ind.com/dlcat/app1_pas.pdf
>
> 73, ac6xg

In graduate school, more years ago than I care to admit, I scrapped a surplus computer for parts. The computer had been custom built for the Savannah River nuclear facility. In addition to the many hundreds of 2N404A germanium transistors, I found the core memory made of ferrite cores about 0.1 inches in diameter and about 30 mils thick. But the most unusual thing, at least to me, was a flexible coaxial cable about six feet long made of a ferrite-loaded rubber core wound with 40 gauge enameled wire, wrapped in a thin cellulose acetate film (Scotch tape?), covered with a braid shield with a vinyl covering. Of course, it was a distributed delay line. I never measured its impedance and delay properties accurately, but the cable had a significant delay that could easily be seen on a 5 MHz bandwidth scope. Even with an approximate termination, the cable's losses were quite high.

This was obviously a commercial cable, but in all of the years since, I have never seen anything like it.

By the way, after dismantling one panel covered with terminal strips, I found a typed note inside that said, "Built by pigmies in darkest Africa."

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

2493. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 04:54:50 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <h2h2v4p02rc0oadcsi75t0ah21umij22pd@4ax.com>
Source record: 16168

On Thu, 23 Apr 2009 16:04:02 -0400, Michael Coslo <mjc5@psu.edu>
wrote:

>Richard Clark wrote:
>> On Thu, 23 Apr 2009 19:23:55 GMT, "JB" <nospam@goofball.net> wrote:
>>
>>>> I doubt the sincerity
>>>> of what this "might be."
>>> You got that right. Just exercising a line of thought.
>>
>> I will skip the rest of the fluff.
>
>Just when it was getting good! We were close to hearing how the Somalian
>pirates believe in evolution, and I was hoping to get a Jeffrey
>Dahmer/evolution connection.

Hi Mike,

I don't know what dots you are trying to connect, especially from a
argument that lifts its rhetoric from the CIA playbook of the late 40s
[gad, that rusty polemic of Stalin getting a free ride reeks of
Nixon's first stump speech].

73's
Richard Clark, KB7QHC

2494. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 05:47:44 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <v9i2v4lusmoa4bf7glrsp2usn2otr9ja8i@4ax.com>
Source record: 16171

On Thu, 23 Apr 2009 15:29:04 -0700, Jim Kelley <jwkelley@uci.edu>
wrote:

>Cecil Moore wrote:
>> Jim Kelley wrote:
>>> ... and as any good dry labber knows, it's a dead giveaway to report a
>>> precision greater than one can actually measure. :-)
>>
>> I have reported no precision - my 100 MHz scope has
>> not been calibrated since I retired.
>
>Precision is the number of sig figs. You "might" have calculated three,
>rounded up, and reported two.

Precision is NOT accuracy. Resolution is NOT precision. Accuracy is
defined with precision to a resolution.

You can state a value with great precision and be 100% in error.

100 V is quite precise; "about" 100 V is less precise.

100 V has three places of resolution.

If the true value is actually 201.45 V then 100 V is precise, somewhat
resolved, but inaccurate. On the other hand, 201.45 V is very
precise, highly resolved, and accurate to within 0.005 V (if we are to
trust it as a reference) or 25 parts per million.

I can anticipate the objection (to confound my statement above) that
100 V has both resolution and precision. True, but that objection
would miss the point. Some standards are nominal (or cardinal) values
such as an 1 MHz URQ-23 frequency standard: 1 place of resolution, but
highly precise with an accuracy of (from my experience) of 6 parts per
trillion (after calibration against a cesium beam standard).

I can anticipate the fine objection that the nominal value of 1 is
actually 1.00000000000. Again, true, but in a world where you own an
URQ-23 (and no one has access to HP 5071 cesium clocks), then you get
to snub that objection and demand: "It IS exactly 1!"

73's
Richard Clark, KB7QHC

2495. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 05:49:45 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BF7A105DE933nonenowhere@61.9.191.5>
Source record: 16170

"Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> wrote in
news:nebIl.82305$TD1.30664@newsfe18.iad:

> "Jim Kelley" <jwkelley@uci.edu> wrote in message
> news:gsq29g$96r$1@news.service.uci.edu...
>
>> For a more quantitative illustration of how distributed reactance in
>> transmission lines causes delay see
>> http://www.rhombus-ind.com/dlcat/app1_pas.pdf
>>
>> 73, ac6xg
>
> In graduate school, more years ago than I care to admit, I scrapped a
> surplus computer for parts. The computer had been custom built for
> the Savannah River nuclear facility. In addition to the many hundreds
> of 2N404A germanium transistors, I found the core memory made of
> ferrite cores about 0.1 inches in diameter and about 30 mils thick.
> But the most unusual thing, at least to me, was a flexible coaxial
> cable about six feet long made of a ferrite-loaded rubber core wound
> with 40 gauge enameled wire, wrapped in a thin cellulose acetate film
> (Scotch tape?), covered with a braid shield with a vinyl covering. Of
> course, it was a distributed delay line. I never measured its
> impedance and delay properties accurately, but the cable had a
> significant delay that could easily be seen on a 5 MHz bandwidth
> scope. Even with an approximate termination, the cable's losses were
> quite high.

Do you think this might have been a Distortionless Line?

Owen

2496. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 05:50:48 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BF6DE38B92F2greederxprtnet@194.177.98.144>
Source record: 16167

Jim Kelley <jwkelley@uci.edu> wrote in
news:gsr3se$l44$1@news.service.uci.edu:

> Gordon wrote:
>> Cecil Moore <nospam@w5dxp.com> wrote in news:YQXHl.5960$Lr6.2997
>> @flpi143.ffdc.sbc.com:
>>
>>> Brian Oakley wrote:
>>>> If you look at the word "day" as it is used in the Hebrew language
>>>> in the OT, it means in almost every instance, a literal day. So
>>>> why would we want to imagine that it would mean anything else when
>>>> the Bible is pretty clear.
>>> How could a "literal day" possibly exist before God
>>> created the Sun on the 4th "day"???
>>
>> He created light on the first day.
>
> Well, consistent with that, records seem to indicate there was a big
> flash of it at one point. And if that was Him, then He is also
> responsible for all the stars and planets which subsequently
> coalesced.
> At which point there began an enormous and complex organic chemistry
> project which, given the amount of time He's allowed it to work, has
> now provided almost an infinite variety of results, including the
> inhabiting of at least (and perhaps only) one of the planets with
> intelligent life.
>
> There are of course a variety of simplified, abridged, and age (or
> epoch) appropriate versions of this history, the actual scale of which
> is only slowing revealing itself to us. So it's apparent that if a
> creator created all of what is, then He is responsible for a far more
> intelligent design than the history books give Him the credit for; far
> too intelligent perhaps for us to comprehend. Or maybe He is the
> simple minded guy with anger management issues they wrote about
> hundreds of years prior to sanitation. I don't claim to know.
>
> ac6xg

Sure, why not? Works for me.

2497. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 06:08:18 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BF6E12FEA2D7greederxprtnet@194.177.98.144>
Source record: 16169

OK, so this is getting way OT.
But, since you brought it up...
(skip down a bit)

Cecil Moore <nospam@w5dxp.com> wrote in news:Kw8Il.8793$im1.6807
@nlpi061.nbdc.sbc.com:

> Gordon wrote:
>> Cecil Moore <nospam@w5dxp.com> wrote in news:YQXHl.5960$Lr6.2997
>>> How could a "literal day" possibly exist before God
>>> created the Sun on the 4th "day"???
>>
>> He created light on the first day.
>
> That may be, but a 24 hour day, i.e. sunrise to
> sunrise, was impossible without the sun which was
> created on the 4th day.

Let's review:
Gen 1:1 In the beginning God created the heaven and the earth.
Gen 1:2 And the earth was without form, and void; and darkness
[was] upon the face of the deep. And the Spirit of God moved
upon the face of the waters.
Gen 1:3 And God said, Let there be light: and there was light.
Gen 1:4 And God saw the light, that [it was] good: and God
divided the light from the darkness.
Gen 1:5 And God called the light Day, and the darkness he called
Night. And the evening and the morning were the first day.

Notice in Gen 1:4 that God divided the light from the darkness?
Thus the first day. Without the sun. Don't ask me how.
But, the sun is not the only thing in the universe that creates
light. Nor does it create the only type of light. Fireflys
for instance create a bioluminecense (sp?) type of light.
So the sun is not needed to create light. Nor is the first day
defined in terms of the motion of the sun.

>
> Actually, The Bible says that 1000 years in the
> life of man is like one day to God. So why can't
> 2 billion years just as easily be like one day to
> God?
>
> The sun was indeed created about 8 billion years
> after the Big Bang. 8 billion years divided by
> "4 days" is indeed 2 billion years.

OK, that's a reasonable theory.
We could ask Him when we get the chance.

Now: When God said "Let there be Light", What type
of antenna was he using?

2498. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 11:33:17 UTC
From: Dave <noone@nowhere.com>
Message-ID: <1shIl.304$fy.81@nwrddc01.gnilink.net>
Source record: 16172

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:960a524d-1b03-4538-a42b-971284250d86@a7g2000yqk.googlegroups.com...
>> EZNEC and the Cecil-Corum method are in agreement.
>Correct

if you had stopped there i would have commended you on another correct
response... but you just couldn't, could you???

>but the solution is in error as equilibrium demands that the
>radiator is in equilibrium ie equal to a period or multiples there of.

you never have defined equilibrium or shown where it is a requirement on
maxwell's equations. i have stated that maxwell's equations rely on NOT
being in equilibrium since they describe fields and waves that can vary in
time, hence they are not in equilibrium with anything. keep going art,
always fun reading!

2499. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 11:33:47 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <AshII.8802$im1.67@nlpi061.nbdc.sbc.com>
Source record: 16173

Gordon wrote:
> Gen 1:1 In the beginning God created the heaven and the earth.

The Bible needs to be re-translated in "light" of
the most recent facts.

Gen 1:1 In the beginning God created the Big Bang
which contained the future ingredients of the sun,
the earth, the moon, and everything else that
exists in the universe today.

> Gen 1:3 And God said, Let there be light: and there was light.

And God said, Let the universe expand and cool so that
space becomes transparent and photons can move freely
at the speed of light.

> Now: When God said "Let there be Light", What type
> of antenna was he using?

For the first ~400,000 years after the Big Bang, the
universe was opaque. When the universe became transparent
thus allowing light to propagate freely, it would
be another ~7-8 billion years before the sun and the
earth coalesced from the primal material.

http://map.gsfc.nasa.gov/universe/bb_tests_cmb.html

Have you ever read Mark Twain's "Letters From Earth"?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2500. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 12:48:02 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <0a1502e6-a20a-48b3-aa13-ea1c90a1817c@s20g2000yqh.googlegroups.com>
Source record: 16174

On Apr 24, 6:33 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:960a524d-1b03-4538-a42b-971284250d86@a7g2000yqk.googlegroups.com...
>
> >> EZNEC and the Cecil-Corum method are in agreement.
> >Correct
>
> if you had stopped there i would have commended you on another correct
> response... but you just couldn't, could you???
>
> >but the solution is in error as equilibrium demands that the
> >radiator is in equilibrium ie equal to a period or multiples there of.
>
> you never have defined equilibrium or shown where it is a requirement on
> maxwell's equations. i have stated that maxwell's equations rely on NOT
> being in equilibrium since they describe fields and waves that can vary in
> time, hence they are not in equilibrium with anything. keep going art,
> always fun reading!

Boundary laws are a part of nature as is mathematics.Every time you
have an equation which uses the equal sign is the mathematical use of
physics.
It allows the movement of all metrics to one side of the equation such
that all metrics used in summation must equal with zero. Maxwell used
this very same fact in determining his laws when he found what he had
derived was NOT equal zero which thus showed it was missing the
metrics of displacement current (deduction) such that all metrics
cancelled out.Again an example of Newtons laws where every action has
a equal and opposite reaction To determine that tha Maxwell is not
using the term Waves is to note that all metrics are nouns in
equations and the term "wave" is an adjective. All elermentary.
Art

2501. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 13:22:24 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e550dad0-2e5c-4ff7-99a4-a0a803210dd8@z19g2000yqe.googlegroups.com>
Source record: 16175

On Apr 24, 7:48 am, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 24, 6:33 am, "Dave" <no...@nowhere.com> wrote:
>
>
>
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> >news:960a524d-1b03-4538-a42b-971284250d86@a7g2000yqk.googlegroups.com...
>
> > > >> EZNEC and the Cecil-Corum method are in agreement.
> > > >Correct
>
> > > if you had stopped there i would have commended you on another correct
> > > response... but you just couldn't, could you???
>
> > > >but the solution is in error as equilibrium demands that the
> > > >radiator is in equilibrium ie equal to a period or multiples there of.
>
> > > you never have defined equilibrium or shown where it is a requirement on
> > > maxwell's equations. i have stated that maxwell's equations rely on NOT
> > > being in equilibrium since they describe fields and waves that can vary in
> > > time, hence they are not in equilibrium with anything. keep going art,
> > > always fun reading!
>
> Boundary laws are a part of nature as is mathematics.Every time you
> have an equation which uses the equal sign is the mathematical use of
> physics.
> It allows the movement of all metrics to one side of the equation such
> that all metrics used in summation must equal with zero. Maxwell used
> this very same fact in determining his laws when he found what he had
> derived was NOT equal zero which thus showed it was missing the
> metrics of displacement current (deduction) such that all metrics
> cancelled out.Again an example of Newtons laws where every action has
> a equal and opposite reaction To determine that tha Maxwell is not
> using the term Waves is to note that all metrics are nouns in
> equations and the term "wave" is an adjective. All elermentary.
> Art

Please allow me to correct myself on the above
Equations comprising of nouns only in a static field. A dynamic field
has both
adjectives and nouns via the metric of time However the sum of the
metrics must still
equal zero.

Sorry about that
Regards
Art

2502. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 13:41:05 UTC
From: "Kevin, WB5RUE" <wb5rue@yahoo.com>
Message-ID: <49f1c23d$0$10278$7836cce5@newsrazor.net>
Source record: 16176

In the beginning was nothing. Then God created light. There was still
nothing but you could see better.

Kevin, WB5RUE

"Gordon" <gonzo@alltomyself.com> wrote in message
news:Xns9BF6E12FEA2D7greederxprtnet@194.177.98.144...
> OK, so this is getting way OT.
> But, since you brought it up...
> (skip down a bit)
>
> Cecil Moore <nospam@w5dxp.com> wrote in news:Kw8Il.8793$im1.6807
> @nlpi061.nbdc.sbc.com:
>
>> Gordon wrote:
>>> Cecil Moore <nospam@w5dxp.com> wrote in news:YQXHl.5960$Lr6.2997
>>>> How could a "literal day" possibly exist before God
>>>> created the Sun on the 4th "day"???
>>>
>>> He created light on the first day.
>>
>> That may be, but a 24 hour day, i.e. sunrise to
>> sunrise, was impossible without the sun which was
>> created on the 4th day.
>
> Let's review:
> Gen 1:1 In the beginning God created the heaven and the earth.
> Gen 1:2 And the earth was without form, and void; and darkness
> [was] upon the face of the deep. And the Spirit of God moved
> upon the face of the waters.
> Gen 1:3 And God said, Let there be light: and there was light.
> Gen 1:4 And God saw the light, that [it was] good: and God
> divided the light from the darkness.
> Gen 1:5 And God called the light Day, and the darkness he called
> Night. And the evening and the morning were the first day.
>
> Notice in Gen 1:4 that God divided the light from the darkness?
> Thus the first day. Without the sun. Don't ask me how.
> But, the sun is not the only thing in the universe that creates
> light. Nor does it create the only type of light. Fireflys
> for instance create a bioluminecense (sp?) type of light.
> So the sun is not needed to create light. Nor is the first day
> defined in terms of the motion of the sun.
>
>>

>> Actually, The Bible says that 1000 years in the
>> life of man is like one day to God. So why can't
>> 2 billion years just as easily be like one day to
>> God?
>>
>> The sun was indeed created about 8 billion years
>> after the Big Bang. 8 billion years divided by
>> "4 days" is indeed 2 billion years.
>
> OK, that's a reasonable theory.
> We could ask Him when we get the chance.
>
> Now: When God said "Let there be Light", What type
> of antenna was he using?
>

2503. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 13:41:48 UTC
From: JB <nospam@goofball.net>
Message-ID: <wkjll.2611$b11.803@nwrddc02.gnilink.net>
Source record: 16177

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:AshIl.8802$im1.67@nlpi061.nbdc.sbc.com...
> Gordon wrote:
> > Gen 1:1 In the beginning God created the heaven and the earth.
>
> The Bible needs to be re-translated in "light" of
> the most recent facts.
>
> Gen 1:1 In the beginning God created the Big Bang
> which contained the future ingredients of the sun,
> the earth, the moon, and everything else that
> exists in the universe today.
>
> > Gen 1:3 And God said, Let there be light: and there was light.
>
> And God said, Let the universe expand and cool so that
> space becomes transparent and photons can move freely
> at the speed of light.
>
> > Now: When God said "Let there be Light", What type
> > of antenna was he using?
>
> For the first ~400,000 years after the Big Bang, the
> universe was opaque. When the universe became transparent
> thus allowing light to propagate freely, it would
> be another ~7-8 billion years before the sun and the
> earth coalesced from the primal material.
>
> http://map.gsfc.nasa.gov/universe/bb_tests_cmb.html
>
> Have you ever read Mark Twain's "Letters From Earth"?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Here is where we always go wrong. Re-interpreting things based on our own
understanding. This is how the flat-earth people got started. If it don't
make sense, just leave it there as a curiosity until it should make sense
when all is revealed. Lean not on your own understanding.

2504. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 14:12:59 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <NNjIl.15246$%54.8263@nlpi070.nbdc.sbc.com>
Source record: 16178

JB wrote:
> Here is where we always go wrong. Re-interpreting things based on our own
> understanding.

Are you saying The Bible was originally
written in English? Can you actually
read ancient Hebrew?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2505. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 15:07:13 UTC
From: JB <nospam@goofball.net>
Message-ID: <BAkIl.328$fy.42@nwrddc01.gnilink.net>
Source record: 16179

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:h2h2v4p02rc0oadcsi75t0ah21umij22pd@4ax.com...
> On Thu, 23 Apr 2009 16:04:02 -0400, Michael Coslo <mjc5@psu.edu>
> wrote:
>
> >Richard Clark wrote:
> >> On Thu, 23 Apr 2009 19:23:55 GMT, "JB" <nospam@goofball.net> wrote:
> >>
> >>>> I doubt the sincerity
> >>>> of what this "might be."
> >>> You got that right. Just exercising a line of thought.
> >>
> >> I will skip the rest of the fluff.
> >
> >Just when it was getting good! We were close to hearing how the Somalian
> >pirates believe in evolution, and I was hoping to get a Jeffrey
> >Dahmer/evolution connection.

Ask the Somalian pirates what they think.
Maybe Jeff thought eating his lovers would be a form of evolution. It is a
form of "CHANGE".
Evolution also implies that a species get's better over time. This is
highly debatable.

>
>
> I don't know what dots you are trying to connect, especially from a
> argument that lifts its rhetoric from the CIA playbook of the late 40s
> [gad, that rusty polemic of Stalin getting a free ride reeks of
> Nixon's first stump speech].

CIA playbook? Wasn't that a comic book showing kids how to clog toilets?

>
> 73's
> Richard Clark, KB7QHC

Screw rhetoric and polemic. We don't even need to put labels on it.
Government power can be divided into that which is moderated by the consent
of the governed, and Government power that isn't. When a Government doesn't
have to worry about getting beheaded or losing an election, it is free to
govern at it's own pleasure.

Just look at the result of it. And no fair re-spinning history. McCarthy
thought it wasn't a very good idea to have Soviet spys in the Army crypto
room after WW2 so he started asking about it and why they shouldn't just

find another job. So rather than denying it, Dems got Hysterically Dramatical and haven't stopped since. Most of them just went on the talk show circuit and got honorary chairs at the universities, so it isn't like they were walking the streets living out of dumpsters. The Venona project finally revealed that most of them were in fact either foreign agents, handlers or helpers of a hostile power.

Tell me you hadn't noticed that the bright future promised to the world by scolding magpies, doesn't exist anywhere they have achieved totalitarian control. When you control by fear, you don't really need the hearts and minds of the people anyway. All they have to do is look and act that way, or else.

As for those who think this is off-topic, then change the subject line to something about antennas.

2506. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 15:47:56 UTC
From: Dave <noone@nowhere.com>
Message-ID: <MaIII.332$fy.127@nwrddc01.gnilink.net>
Source record: 16180

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:e550dad0-2e5c-4ff7-99a4-a0a803210dd8@z19g2000yqe.googlegroups.com...
On Apr 24, 7:48 am, Art Unwin <ArthurUn...@gmail.com> wrote:

>Please allow me to correct myself on the above

you never did answer my question, but thats ok, you never have before
either... now you try parsing the language and think that provides
insight... just write the equation, what is equilibrium in your mind? i
know this is tough, you are so far out of balance anyway, but try to amuse
me a bit and write a concise definition of 'equilibrium'.

2507. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 16:25:12 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <090162a8-85c6-4f7e-a973-2f4d71b4d0bd@f19g2000yqo.googlegroups.com>
Source record: 16181

On Apr 24, 10:47 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:e550dad0-2e5c-4ff7-99a4-a0a803210dd8@z19g2000yqe.googlegroups.com...
> On Apr 24, 7:48 am, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> >Please allow me to correct myself on the above
>
> you never did answer my question, but thats ok, you never have before
> either... now you try parsing the language and think that provides
> insight... just write the equation, what is equilibrium in your mind? i
> know this is tough, you are so far out of balance anyway, but try to amuse
> me a bit and write a concise definition of 'equilibrium'.

I will be happy to David
It is balance as referred to by the mathematical equal (=) term where
all metrics can be placed to one side and summed to the value of
zero. In physics it represents the physical laws of Newton and other
where "every action has an equal and opposite reaction" as used in the
time worn uses when establishing a arbitrary border as per Gauss's law
of Statics or Maxwell when determining the absence of metrics deduced
the missing levitational force(displacement current) in his law's or
calculations. All of which were established by observations thru the
years of the Universe with respect to Earth in relative form . (See
Einstein's law of relativity) This can be seen as motivation of the
Grand Universal Theory which Einstein gave up on because of his
failure to identify what is known as the "weak force" which is part of
the standard model of physics. It was Foucault that much, much later
that found or discovered the displacement current which is what I
determine to be the "weak force" and also the required metrics that
Maxwell added to his equations to represent the measure of
equilibrium.
The above explanation is probably longer than what is usually found in
terms of words but I tried to relate to the evolution of physics with
respect to that same word to provide better understanding rather than
describing it in niche terms of mechanical and electrical terms of the
physical Universe
I thought you were getting bored with physics!
Regards
Art Unwin KB9MZ..xg

2508. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 17:18:16 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <rvr3v4h66gbkguro18pn9mjjhf9bs4bebr@4ax.com>
Source record: 16183

On Fri, 24 Apr 2009 15:07:13 GMT, "JB" <nospam@goofball.net> wrote:
>Screw rhetoric and polemic.

That would have been enough to write, but it was only the prelude to
the paleo-polemic of John Birch (aka screwed) rhetoric I've snipped.

73's
Richard Clark, KB7QHC

2509. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 17:19:35 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <f72f8c93-522a-45f7-94c1-a61bd8a50a3d@c12g2000yqc.googlegroups.com>
Source record: 16182

On Apr 24, 11:25 am, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 24, 10:47 am, "Dave" <no...@nowhere.com> wrote:
>
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> >news:e550dad0-2e5c-4ff7-99a4-a0a803210dd8@z19g2000yqe.googlegroups.com...
> > On Apr 24, 7:48 am, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> > > >Please allow me to correct myself on the above
>
> > > you never did answer my question, but thats ok, you never have before
> > > either... now you try parsing the language and think that provides
> > > insight... just write the equation, what is equilibrium in your mind? i
> > > know this is tough, you are so far out of balance anyway, but try to amuse
> > > me a bit and write a concise definition of 'equilibrium'.
>
> I will be happy to David
> It is balance as referred to by the mathematical equal (=) term where
> all metrics can be placed to one side and summed to the value of
> zero. In physics it represents the physical laws of Newton and other
> where "every action has an equal and opposite reaction" as used in the
> time worn uses when establishing a arbitrary border as per Gauss's law
> of Statics or Maxwell when determining the absence of metrics deduced
> the missing levitational force(displacement current) in his law's or
> calculations. All of which were established by observations thru the
> years of the Universe with respect to Earth in relative form . (See
> Einstein's law of relativity) This can be seen as motivation of the
> Grand Universal Theory which Einstein gave up on because of his
> failure to identify what is known as the "weak force" which is part of
> the standard model of physics. It was Foucault that much, much later
> that found or discovered the displacement current which is what I
> determine to be the "weak force" and also the required metrics that
> Maxwell added to his equations to represent the measure of
> equilibrium.
> The above explanation is probably longer than what is usually found in
> terms of words but I tried to relate to the evolution of physics with
> respect to that same word to provide better understanding rather than
> describing it in niche terms of mechanical and electrical terms of the
> physical Universe
> I thought you were getting bored with physics!
> Regards
> Art Unwin KB9MZ..xg

While putting my definition down with respect to equilibrium it seems a good time to expand it to why particles and not waves are the subject of Maxwell's laws.
Both Maxwell and Gauss generated arbitrary borders in their summation of the laws of statics and the laws of radiation. The only difference between them is one descibes a static fiels while the other descibes a dynamic field both of which the forces must be summed up to equal zero. It was Maxwell you changed the static field to a dynamic field when he saw that the metric of time was only on one side of the equation which meant that the unlikely discovery of an equation that was not in equilibrium within the boundaries of the environment under consideration. Thus he expanded the law of statics by making it dynamic which required the addition of the metric of time which would cancel out when establishing the presence of equilibrium.
It should now be obvious to all on this group struggling with waves versus particles
that when changing the field to dynamic one must recognise that mass or particles are present in this action and not waves. This provides authenticity of my personal position of the presence of particles in radiation and all laws of our Universe.
Hopefully the above will convince all other members of this group as well as those that deny the presence of the Grand Unification Theory but I will not hold my breath.
Regards
Art Unwin KB9MZ xg

2510. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 17:21:21 UTC
From: JB <nospam@goofball.net>
Message-ID: <lymII.351$fy.265@nwrddc01.gnilink.net>
Source record: 16184

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:NNjIl.15246$%54.8263@nlpi070.nbdc.sbc.com...
> JB wrote:
> > Here is where we always go wrong. Re-interpreting things based on our
own
> > understanding.
>
> Are you saying The Bible was originally
> written in English? Can you actually
> read ancient Hebrew?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

No and No. Nor can I read Aramaic, Greek or other languages. Thanks for the illustration.

Language always leaves room for misinterpretation. Even when using simple 5th grade English, many people only grasp certain key words and have difficulty grasping the meaning of complete sentences let alone complete paragraphs, so have trouble communicating in the first place. They fail to interpret the experience of others and are doomed to learn from their own mistakes and be mis-lead. It is interesting to point out though, many different versions of the Bible (other than commentary or paraphrase) by different translation teams do very well at conveying the same thought and it is worth while to do parallel study to have a better understanding of that problem. The imprecision of common usage of the English and other languages also seems to be a limitation, but not so much as you would expect. One of the translation skills comes from reading many other surviving texts and even hostile sources, to get a better picture of language usage and events of the day. It is a good thing to have some patience with people who jump to conclusions even because it is so difficult for all of us. It is certainly even more difficult for those under duress, but without love and courage we are dead already.

Grace and Peace

2511. Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 17:29:25 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <WFmIl.25348$Ws1.21255@nlpi064.nbdc.sbc.com>
Source record: 16185

I have previously presented my thoughts about the
similarity between dual-Z0 stubs and base-loaded
mobile antennas. Here is an article on the subject
of "Dual-Z0 Stubs" that is directly applicable
to base-loaded mobile antennas.

If we can shorten a stub by using two Z0s, why
can't we shorten an antenna by using two Z0s?

http://www.w5dxp.com/shrtstub.htm
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2512. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 17:32:31 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsst3f$br8$1@news.service.uci.edu>
Source record: 16187

Richard Clark wrote:
> On Thu, 23 Apr 2009 15:29:04 -0700, Jim Kelley <jwkelley@uci.edu>
> wrote:
>
>> Cecil Moore wrote:
>>> Jim Kelley wrote:
>>>> ... and as any good dry labber knows, it's a dead giveaway to report a
>>>> precision greater than one can actually measure. :-)
>>> I have reported no precision - my 100 MHz scope has
>>> not been calibrated since I retired.
>> Precision is the number of sig figs. You "might" have calculated three,
>> rounded up, and reported two.
>
> Precision is NOT accuracy.

No one said it was, Richard.

Thanks though.

ac6xg

2513. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 17:33:25 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GJmII.25349$Ws1.8143@nlpi064.nbdc.sbc.com>
Source record: 16186

JB wrote:
> No and No. Nor can I read Aramaic, Greek or other languages. Thanks for
> the illustration.

God could really have impressed us if He had told Moses
to write: "In the beginning, God created the Big Bang."
Assuming that God knew He had created the Big Bang,
why didn't He tell Moses to write those words?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2514. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 17:43:06 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gsstna$c42$1@news.service.uci.edu>
Source record: 16188

Tom Donaly wrote:
> Jim Kelley wrote:
>> Gordon wrote:
> ...
>
>> Well, consistent with that, records seem to indicate there was a big
>> flash of it at one point. And if that was Him, then He is also
>> responsible for all the stars and planets which subsequently
>> coalesced. At which point there began an enormous and complex organic
>> chemistry project which, given the amount of time He's allowed it to
>> work, has now provided almost an infinite variety of results,
>> including the inhabiting of at least (and perhaps only) one of the
>> planets with intelligent life.
>> ....
>>
>> ac6xg
>
> Which planet was that?
> 73,
> Tom Donaly, KA6RUH

:-) It's a good question. But there would still be intelligent life
here even if humans did not happen to inhabint the planet.

ac6xg

2515. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 18:17:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <mjnIl.6059$Lr6.4725@flpi143.ffdc.sbc.com>
Source record: 16189

Jim Kelley wrote:
> But there would still be intelligent life
> here even if humans did not happen to inhabint the planet.

I once read a book titled, "Is There Intelligent
Life in the Universe".

The last chapter was titled, "Is There Intelligent
Life on Earth?"
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2516. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 19:05:46 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gst2ic$do30$1@tr22n12.aset.psu.edu>
Source record: 16190

Richard Clark wrote:
> On Thu, 23 Apr 2009 16:04:02 -0400, Michael Coslo <mjc5@psu.edu>
> wrote:
>
>> Richard Clark wrote:
>>> On Thu, 23 Apr 2009 19:23:55 GMT, "JB" <nospam@goofball.net> wrote:
>>>
>>>>> I doubt the sincerity
>>>>> of what this "might be."
>>>> You got that right. Just exercising a line of thought.
>>> I will skip the rest of the fluff.
>> Just when it was getting good! We were close to hearing how the Somalian
>> pirates believe in evolution, and I was hoping to get a Jeffrey
>> Dahmer/evolution connection.
>
> Hi Mike,
>
> I don't know what dots you are trying to connect, especially from a
> argument that lifts its rhetoric from the CIA playbook of the late 40s
> [gad, that rusty polemic of Stalin getting a free ride reeks of
> Nixon's first stump speech].

After being compared with Ol' commie Joe, I figured that since we were
in the name calling stage, I might as well see how many names I could
get JB to call me. I thought you were going soft on the OM.

So I had to get things jump started.

Turning the other cheek now.....

- 73 de Mike N3LI -

2517. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 19:08:58 UTC
From: Dave <noone@nowhere.com>
Message-ID: <e7oIl.381$fy.222@nwrddc01.gnilink.net>
Source record: 16191

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:f72f8c93-522a-45f7-94c1-a61bd8a50a3d@c12g2000yqc.googlegroups.com...
On Apr 24, 11:25 am, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 24, 10:47 am, "Dave" <no...@nowhere.com> wrote:
>
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> >news:e550dad0-2e5c-4ff7-99a4-a0a803210dd8@z19g2000yqe.googlegroups.com...
> > > On Apr 24, 7:48 am, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> > > >Please allow me to correct myself on the above
>
> > > you never did answer my question, but thats ok, you never have before
> > > either... now you try parsing the language and think that provides
> > > insight... just write the equation, what is equilibrium in your mind? i
> > > know this is tough, you are so far out of balance anyway, but try to
> > > amuse
> > > me a bit and write a concise definition of 'equilibrium'.
>
> I will be happy to David
> It is balance as referred to by the mathematical equal (=) term where

so any equation with an equals sign is in equilibrium?? that applies to
everything then, since all equations contain an equals sign they are all in
equilibrium by definition. my i'm glad you explained that art, i might have
gone through life never knowing that by taking e=ir and rewriting it as
e-ir=0 i have put ohms law in equilibrium and then all is well with the
universe! so the conversion of mass to energy in the famous equation e=mc^2
is really in equilibrium as e-mc^2=0, so no mass is converted to energy or
vice versa! wow, what a revelation! thanks again art!

2518. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 19:09:14 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gst2oq$dv0$1@news.service.uci.edu>
Source record: 16192

Cecil Moore wrote:
> Jim Kelley wrote:
>> But there would still be intelligent life here even if humans did not
>> happen to inhabit the planet.
>
> I once read a book titled, "Is There Intelligent
> Life in the Universe".
>
> The last chapter was titled, "Is There Intelligent
> Life on Earth?"

Well, I feel strongly that if the author didn't know, then it's good
that he should ask. Some would even say that there are no stupid
questions. I don't know if I'd go that far. :-)

ac6xg

2519. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 19:28:14 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <JvoIl.15418$pr6.11704@flpi149.ffdc.sbc.com>
Source record: 16193

Cecil Moore wrote:
> I have previously presented my thoughts about the
> similarity between dual-Z0 stubs and base-loaded
> mobile antennas. Here is an article on the subject
> of "Dual-Z0 Stubs" that is directly applicable
> to base-loaded mobile antennas.
>
> If we can shorten a stub by using two Z0s, why
> can't we shorten an antenna by using two Z0s?
>
> http://www.w5dxp.com/shrtstub.htm

Congratulations, Cecil, you've just re-invented the electrical analog of the Helmholtz resonator. Your analysis would be a lot simpler if you'd first characterized each stub with T parameters and then multiplied them together to get a two port you could use to find the conditions for the resonance of the entire stub. You could then use the differential calculus to find out what the criteria was for the shortest overall stub. (It's true, both lengths have to be the same.) If you want to take a stab at using your discovery to deal with antennas, why don't you use two "dual Z0 stubs together to make a folded dipole. You could even do that in EZNEC. Applying this to your favorite loaded dipole is a stretch, but that probably won't stop you from trying.
73,
Tom Donaly, KA6RUH

(P.S. Where did you learn about "dual Z0" stubs?)

2520. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 19:32:59 UTC
From: richardharrison@webtv.net
Message-ID: <21182-49F213EB-1770@storefull-3172.bay.webtv.net>
Source record: 16194

Art wrote:
"I thought you were getting bored with physics!"

We must live with physics, bored or not. The parabola is well understood. its use as a reflector is documented by Kraus and the "ARRL Antenna Book". A good description is seen in "Principles of Radar" published by the MIT Radar School Staff in 1946. On page 9-78:

"The geometrical properties of parabolas are important for demonstrating the existence of a constant-phase surface. First, a parabola is by definition the focus of points as far from a fixed point called the focus as from a fixed line called the directrix. With reference to Fig. 51A, this means that lengths AA` and AF are equal, BB`and BF are equal, and so on. Second, a line drawn tangent to a parabola at any point (as in Fig. 51B) makes equal angles with a line drawn from this point back to the focus and a line from this point parallel to the axis of the parabola. When a point source is placed at the focus, it sends out energy in a single time phase, but in various directions. This energy strikes the paraboloid at points such as A, B, and C, (in Fig.51A), and is reflected in a direction parallel with the axis because of the second property mentioned. The first property predicts that the phase change that the wave undergoes in traveling to points A``, B``, and C`` on the surface SS` is the same for each ray, the phase change being equal to the distance in electrical degrees, from the diretrix to the surface SS` plus 180 degrees, due to the phase reversal upon reflection. Thus the field reflected from the parabola has a single time phase in a plane across the mouth of the parabola. The field radiated forward by the point source tends to upset this constant-phase surface, but this effect is usually minimized through the use of sources which radiate appreciably only roward the reflector.

Best regards, Richard Harrison, KB5WZI

2521. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 19:40:48 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <2BoII.67540$LA7.7362@newsfe20.iad>
Source record: 16195

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BF7A105DE933nonenowhere@61.9.191.5...
> "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> wrote in
> news:nebIl.82305$TD1.30664@newsfe18.iad:

>> Of course, it was a distributed delay line. I never measured its
>> impedance and delay properties accurately, but the cable had a
>> significant delay that could easily be seen on a 5 MHz bandwidth
>> scope. Even with an approximate termination, the cable's losses were
>> quite high.
>
> Do you think this might have been a Distortionless Line?

With the limited bandwidth of the scope, it looked like there was little
distortion. I could see no overshoot or ringing like that seen with
conventional artificial delay lines, but I suspect that
the junky scope was the reason.

In early radars, liquid-filled tubes with acoustic sensors on each end
were used to produce time delays. Typically mercury or water, being
incompressible, were used to fill the tubing. I have seen commercial
delay lines made from quartz rods too. The rods were generally quite
small in diameter but were very long and wound into a spiral. Of course
then there were audio "reverbs" that used springs stretched between
transducers.

Back when I was doing lots of analog computer work simulating automatic
control systems, I used Pad&#65533; approximations to simulate pure time delay.
Since we are getting rather far away from antennas and transmission
lines, I will give references rather than discuss this here.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

Pad&#65533; approximant - Wikipedia, the free encyclopedia
http://en.wikipedia.org/wiki/Pad%C3%A9_approximant

Pad&#65533; approximation of model with time delays - MATLAB (Control System
Toolbox)
http://www.mathworks.com/access/helpdesk/help/toolbox/control/ref/pade.html

Pad&#65533; Approximation of Delays
http://www.ee.bilkent.edu.tr/~ee342/Laboratory/pade.pdf

Pad&#65533; Approximation
http://math.fullerton.edu/mathews/n2003/PadeApproximationMod.html

[Example 9 is especially appropriate]

2522. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 19:44:23 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <02b7f6c5-b562-4aeb-a8b8-7ebf3bcd8b1a@o30g2000vbc.googlegroups.com>
Source record: 16196

On Apr 24, 8:28 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> If you want to take a stab at using your
> discovery to deal with antennas, why don't you use two "dual Z0
> stubs together to make a folded dipole. You could even do that in
> EZNEC.

Tom,

How would that work in a folded dipole? Surely it's not the
differential mode "stub" you're trying to shorten - it's the common-
mode radiator.

Steve G3TXQ

2523. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 20:10:11 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <49f21ca2$0$1119$4fafbaef@reader1.news.tin.it>
Source record: 16197

> Ok, firstly, there was a mistake in my formula... it is missing a pair of
> parentheses, and should be (1-10^(-(3.941e-6*f^0.5)/10))*100.
>
> That correctly finds 1.08%/m for R loss.
>
> From my spreadsheet check, =(1-10^(-(0.00000000001031*f)/10))*100
> correctly calculates 0.034%/m. Note the exponent of f is 1 in the G case.
>
> Apologies for the parenthesis omission. I wrote down what I 'did' on an
> RPN calculator rather than copying an expression that evaluated properly.
>
> Does this answer your question?

Owen,

I simply pasted and copied your formulas in my Excel.

For f=144:

- the first formula gives me 0.00108893 that is 0.108%, which is 10 times lower than your figure
- the second formula gives me 3.41851e-08 that is 0.0000034%, which is 10,000 times lower than your figure

I did that three times, same results.....

I cannot understand what can be wrong....

Tony I0JX

2524. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 20:26:40 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <O8pII.3102$fD.608@flpi145.ffdc.sbc.com>
Source record: 16198

steveeh131047 wrote:
> On Apr 24, 8:28 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
>> If you want to take a stab at using your
>> discovery to deal with antennas, why don't you use two "dual Z0
>> stubs together to make a folded dipole. You could even do that in
>> EZNEC.
>
> Tom,
>
> How would that work in a folded dipole? Surely it's not the
> differential mode "stub" you're trying to shorten - it's the common-
> mode radiator.
>
> Steve G3TXQ

Hi Steve,
I have no idea what Cecil will find if he tries his
theory on this. However, according to Cecil's favorite text, a
folded dipole's behavior can be analyzed by assuming that its
current "is decomposed into two distinct modes: a transmission
line mode and an antenna mode." (From Balanis, _Antenna Theory_)
You've got EZNEC; you can try this, too. It won't cost you anything,
and, if nothing else, you might get the satisfaction of telling me
how wrong I am.
73,
Tom Donaly, KA6RUH

2525. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 21:16:31 UTC
From: steveeh131047 <steve@karinya.net>
Message-ID: <1daed659-60a8-43dd-be54-1cc2c24e9018@m24g2000vbp.googlegroups.com>
Source record: 16199

On Apr 24, 9:26 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> However, according to Cecil's favorite text, a
> folded dipole's behavior can be analyzed by assuming that its
> current "is decomposed into two distinct modes: a transmission
> line mode and an antenna mode." (From Balanis, _Antenna Theory_)
> You've got EZNEC; you can try this, too. It won't cost you anything,
> and, if nothing else, you might get the satisfaction of telling me
> how wrong I am.

Tom: I was unaware of "Cecil's favourite text" and did my own work on the folded dipole some time ago:
http://www.karinya.net/g3txq/folded_dipole/

I too found that you can resolve the currents between the two wires into a common-mode radiating component and a differential-mode stub component. My particular interest was in situations where the velocity factors of the two modes is very different - for example if you use zip cord for the construction - and discovering where you then need to place the stub shorting links for minimum effect on the feedpoint impedance.

I was disappointed to see that recent editions of the ARRL Antenna Book don't recognise this effect, but earlier editions do. I have also found that Cebik's analysis of the topic is incomplete, as a result of which he reaches the wrong conclusion about shorting link position. I wrote to ARRL about it some time ago, suggesting they re-instate the original text, but they seem disinclined to respond.

Without modelling it, my guess is that a ""dual Zo" approach will require the shorting links to be placed much closer to the centre of the antenna, but it will do nothing for the overall length required for common-mode resonance. After all, what you require of the stubs is that they be very high impedance across the feedpoint, and with "dual Zo" that would require them to be much shorter.

Now, if you can think of some way of forming a large discontinuity in the COMMON-MODE Zo we may be onto a "breakthrough" ;)

Steve G3TXQ

2526. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 21:28:27 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <2aqIl.15286$%54.7353@nlpi070.nbdc.sbc.com>
Source record: 16200

Tom Donaly wrote:
> (P.S. Where did you learn about "dual Z0" stubs?)

While I was figuring out why Roy's "measurements"
were very accurate but virtually meaningless.

In an ideal stub, the current doesn't change phase
from end to end. An antenna is more like an ideal
stub than most people realize.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2527. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 21:31:30 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <VcqIl.15287$%54.4264@nlpi070.nbdc.sbc.com>
Source record: 16001

Tom Donaly wrote:
> ... why don't you use two "dual Z0
> stubs together to make a folded dipole.

I had not thought of that before but I will now. TNX!

I will need to cause the current to be common-mode
rather than differential mode but it might work.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2528. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 21:42:37 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BF84E6F13686nonenowhere@61.9.191.5>
Source record: 16002

"Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> wrote in news:2BoIl.67540
$LA7.7362@newsfe20.iad:

> Since we are getting rather far away from antennas and transmission
> lines, I will give references rather than discuss this here.

Well, we all like Distortionless Lines, almost all ham discussion and indeed much if not most textbook discussion is about one special case of a Distortionless Line, the Lossless Line.

Nevertheless, we apply one property of Distortionless Lines to real lines, the property that Zo=Ro+j0, and that Zo is independent of frequency.

But, a real Distortionless Line (real excludes Lossless) doesn't have much application for us.

Though I haven't had my hands on a Distortionless Line, it occurs to me that increasing L/m is a means of diminishing the effect of changing R/m, making G/m higher is another means of making Zo real, and if the materials make R/m(f) track G/m(f) closely ... then the problem is mostly solved.

Owen

2529. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 21:48:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <DsqII.15289$%54.5617@nlpi070.nbdc.sbc.com>
Source record: 16003

Cecil Moore wrote:
> Tom Donaly wrote:
>> (P.S. Where did you learn about "dual Z0" stubs?)
>
> While I was figuring out why Roy's "measurements"
> were very accurate but virtually meaningless.

This is, of course, referring to Roy's "measurements"
of the "delay" through a 75m mobile loading coil as
being close to zero since there was "no measurable phase
shift" - as if the phase shift had anything to do with
the delay in a standing wave antenna. Hint: It doesn't!

Any person with a modicum of mathematics skill can
look at the following equation and know that there
is no phase shift relative to x in 1/4WL of wire or
coil.

Itot = Imax*cos(kx)*cos(wt)

Since Roy has known these details for more than
five years, I can only assume that he knows that
he is wrong but refuses to admit it - hoping that
his guru status will continue to promote his
old wives' tale.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2530. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 21:52:00 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BF85006BEA6Dnonenowhere@61.9.191.5>
Source record: 16004

"Antonio Vernucci" <vernucci@tin.it> wrote in
news:49f21ca2$0$1119$4fafbaef@reader1.news.tin.it:

>> Ok, firstly, there was a mistake in my formula... it is missing a
>> pair of parentheses, and should be (1-10^(-(3.941e-6*f^0.5)/10))*100.
>>
>> That correctly finds 1.08%/m for R loss.
>>
>> From my spreadsheet check, =(1-10^(-(0.00000000001031*f)/10))*100
>> correctly calculates 0.034%/m. Note the exponent of f is 1 in the G
>> case.
>>
>> Apologies for the parenthesis omission. I wrote down what I 'did' on
>> an RPN calculator rather than copying an expression that evaluated
>> properly.
>>
>> Does this answer your question?
>
> Owen,
>
> I simply pasted and copied your formulas in my Excel.
>
> For f=144:
>
> - the first formula gives me 0.00108893 that is 0.108%, which is 10
> times lower than your figure
> - the second formula gives me 3.41851e-08 that is 0.0000034%, which is
> 10,000 times lower than your figure
>
> I did that three times, same results.....
>
> I cannot understand what can be wrong....
>
> Tony I0JX
>
>

Ok, you have calculated for 144Hz. Try f=144e6 and don't format the cells
with %.

Owen

2531. Re: Coax Collinear Element Materials and Velocity Factor

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 22:06:13 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <49f237d4$0$844$4fafbaef@reader5.news.tin.it>
Source record: 16005

> Ok, you have calculated for 144Hz. Try f=144e6

Yes it works fine now

Thanks for help.

Tony I0JX

2532. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 22:07:56 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <drd4v4d26oetq3u085v64us4mfscilcb44@4ax.com>
Source record: 16006

On Fri, 24 Apr 2009 15:05:46 -0400, Michael Coslo <mjc5@psu.edu>
wrote:
>After being compared with Ol' commie Joe, I figured that since we were
>in the name calling stage, I might as well see how many names I could
>get JB to call me. I thought you were going soft on the OM.

John Birch may have elevated Uncle Joe's stock in that comparison to
you....

How's that for going soft?

73's
Richard Clark, KB7QHC

2533. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 22:24:17 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <230740a3-5fac-49d0-9140-ef751e013060@f19g2000yqo.googlegroups.com>
Source record: 16007

On Apr 24, 2:08 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:f72f8c93-522a-45f7-94c1-a61bd8a50a3d@c12g2000yqc.googlegroups.com...
> On Apr 24, 11:25 am, Art Unwin <ArthurUn...@gmail.com> wrote:
>
>
>
> > On Apr 24, 10:47 am, "Dave" <no...@nowhere.com> wrote:
>
> > > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> > >news:e550dad0-2e5c-4ff7-99a4-a0a803210dd8@z19g2000yqe.googlegroups.com...
> > > On Apr 24, 7:48 am, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> > > >Please allow me to correct myself on the above
>
> > > you never did answer my question, but thats ok, you never have before
> > > either... now you try parsing the language and think that provides
> > > insight... just write the equation, what is equilibrium in your mind? i
> > > know this is tough, you are so far out of balance anyway, but try to
> > > amuse
> > > me a bit and write a concise definition of 'equilibrium'.
>
> > I will be happy to David
> > It is balance as referred to by the mathematical equal (=) term where
>
> so any equation with an equals sign is in equilibrium?? that applies to
> everything then, since all equations contain an equals sign they are all in
> equilibrium by definition. my i'm glad you explained that art, i might have
> gone through life never knowing that by taking e=ir and rewriting it as
> e-ir=0 i have put ohms law in equilibrium and then all is well with the
> universe! so the conversion of mass to energy in the famous equation e=mc^2
> is really in equilibrium as e-mc^2=0, so no mass is converted to energy or
> vice versa! wow, what a revelation! thanks again art!

Well not exactly. The innards of the arbitary boundary must be in a
state of equilibrium
thus when making the arbitrary field a dynamic field by adding time or
such things as radiators the innards must stay in equilibrium. Thus if
radiators are added they also must be in equilibrium which requires
all to be approximately one WL or the equivalent of one or more
periods of the frequency in use. Thus the majoritory of added
radiators may be the one of choice in terms of feed point

2534. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 22:37:18 UTC
From: Dave <noone@nowhere.com>
Message-ID: <yarII.2673$b11.967@nwrddc02.gnilink.net>
Source record: 16008

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:230740a3-5fac-49d0-9140-ef751e013060@f19g2000yqo.googlegroups.com...
On Apr 24, 2:08 pm, "Dave" <no...@nowhere.com> wrote:

>radiators are added they also must be in equilibrium which requires
>all to be approximately one WL or the equivalent of one or more
>periods of the frequency in use. Thus the majoritory of added
>radiators may be the one of choice in terms of feed point

ok, if a one wl radiator is in equilibrium, give me the equation describing
the current and radiation pattern from that radiator in free space.

2535. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 23:17:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d63f35fa-9d65-4ff6-837b-3da50a9d81f7@c12g2000yqc.googlegroups.com>
Source record: 16009

On Apr 24, 5:37 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:230740a3-5fac-49d0-9140-ef751e013060@f19g2000yqo.googlegroups.com...
> On Apr 24, 2:08 pm, "Dave" <no...@nowhere.com> wrote:
>
> >radiators are added they also must be in equilibrium which requires
> >all to be approximately one WL or the equivalent of one or more
> >periods of the frequency in use. Thus the majoritory of added
> >radiators may be the one of choice in terms of feed point
>
> ok, if a one wl radiator is in equilibrium, give me the equation describing
> the current and radiation pattern from that radiator in free space.

David you are fishing for info for your next phase of attack. Soon I
will get right on it and work thru day and night and all weekends per
your request of me so please do not arrest me if I do not fullfill all
of your expectations of me. I have asked my wife to delay her birthday
because obviously your demands of me with respect to antennas or
equilibrium comes first. I would remind you that I did supply
dimensions of a tipped radiator in equilibrium some time ago on this
newsgroup but you showed zero interest. What has changed?
Your devoted servant
Art

2536. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-24 23:48:49 UTC
From: dave <dave@dave.dave>
Message-ID: <49f24fe2$0$31182$bd467cd0@news.dslextreme.com>
Source record: 16010

Art Unwin wrote:
> I would remind you that I did supply
> dimensions of a tipped radiator in equilibrium some time ago on this
> newsgroup but you showed zero interest. What has changed?
> Your devoted servant
> Art

X (sub) L = X (sub) C

Is this what you mean by "equilibrium"?

2537. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 00:18:16 UTC
From: Dave <noone@nowhere.com>
Message-ID: <cFsIl.2683$b11.1507@nwrddc02.gnilink.net>
Source record: 16011

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:d63f35fa-9d65-4ff6-837b-3da50a9d81f7@c12g2000yqc.googlegroups.com...
On Apr 24, 5:37 pm, "Dave" <no...@nowhere.com> wrote:
> I would remind you that I did supply
>dimensions of a tipped radiator in equilibrium some time ago on this
>newsgroup but you showed zero interest. What has changed?
>Your devoted servant

tipping a radiator is an obvious exploit of changes in pattern by
unbalancing the ground current. it gives some gain in one direction at the
expense of other directions. it is not all that useful unless you want a
tipsy looking antenna and are covering a fixed direction... unless you made
an array of tipsy verticals for vhf and rotated them... that might be fun.
besides i had enough bent elements from the winter ice, they didn't improve
the yagi performance. so i've had enough of that. but 'equilibrium' as
defined by art is a magic jewel to be examined.

i do take exception with 'dave' though, the equation should be Xl=-Xc or
Xl+Xc=0 to put it in art's form.

2538. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 01:17:51 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3f37a877-63a8-44a8-abf2-1f1685e7c10c@x5g2000yqk.googlegroups.com>
Source record: 16012

On Apr 24, 6:48 pm, dave <d...@dave.dave> wrote:
> Art Unwin wrote:
> > I would remind you that I did supply
> > dimensions of a tipped radiator in equilibrium some time ago on this
> > newsgroup but you showed zero interest. What has changed?
> > Your devoted servant
> > Art
>
> X (sub) L = X (sub) C
>
> Is this what you mean by "equilibrium"?

There is something going on
I am outa here.
Why not just review my patent request to get the info

2539. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 01:23:24 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49f2662f$0$92352$8046368a@newsreader.iphouse.net>
Source record: 16013

Art Unwin wrote:
> I am outa here.

First accurate thing he has said in a while.

Hang on, possibly I am confused. Maybe it was precise. Yup, I am resolute now.

tom
K0TAR

2540. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 05:20:44 UTC
From: dplatt@radagast.org
Message-ID: <c6jac6-sdb.ln1@radagast.org>
Source record: 16018

In article <Xns9BF7DB515FF00greederxprtnet@194.177.98.144>,
Gordon <gonzo@alltomyself.com> wrote:

>1) Right now all the digital transmissions are in the UHF band.
> but in 6 weeks, three stations will move back to their VHF
> assignments in the VHF high band.
> How well can I expect my antenna to work in that frequency band?

Not terribly well. "Short" antennas (significantly less than 1/2
wavelength) have a very reactive impedance, and don't couple
efficiently to the E/M wave.

It may work well enough for your area (depending on the VHF signal
strength) or maybe not.

>2) I have not trimmed or dressed the twin lead from the bowties.
> I understand that twin-lead can act as antennas.

Yup. Sometimes a problem, sometimes not.

Sensitivity of twinlead to external fields can be reduced by twisting
the twinlead (one rotation every six inches or every foot is a decent
starting point) and by keeping it a few inches away from anything
metal. Use insulating standoffs to run it down the antenna mast.

Or, convert from the twinlead to a 75-ohm coax (e.g. RG-8) using a
balun, and run coax down to your TV.

> So what
>is the best way to manage the twinlead? Cut it back? I noticed
>that when i laid the leads together, in an attempt to make a
>neat assembly, I got signal cancelation.

Trim it back to a reasonable minimum length, don't loop it back along
itself or run it next to itself (or other twinlead, or anything
metal), and twist it periodically.

>4) Any suggestions for alternitive DIY designs?

You may want to consider adding a "folded dipole" in parallel with the
bowtie arrangement, with the dipole being cut to the wavelength of the
lowest-frequency VHF channel you'll want to receive.

If you need more gain or directivity on VHF than a dipole will give
you, then using a log-periodic antenna (the classic rooftop VHF/UHF
type) may be your best bet. These *can* be home-brewed but they're
more complex than a simple bowtie-and-reflector.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

2541. A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 05:33:45 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BF7DB515FF00greederxprtnet@194.177.98.144>
Source record: 16014

This seems to be the only news group devoted to the topic of antennas.
(and the origins of the universe). So maybe you guys can help me
with this.

I have been experimenting with fabricating a decent
indoor DTV antenna. I have tried several things. What I have
now is two bowties spaced about 7 inches apart on a wood dowel.
A peanut butter jar with rocks in it makes up the base.

It seems to give pretty good performance. It could be better.
But I am wondering about a few things.

1) Right now all the digital transmissions are in the UHF band.
but in 6 weeks, three stations will move back to their VHF
assignments in the VHF high band.
How well can I expect my antenna to work in that frequency band?

2) I have not trimmed or dressed the twin lead from the bowties.
I understand that twin-lead can act as antennas. So what
is the best way to manage the twinlead? Cut it back? I noticed
that when i laid the leads together, in an attempt to make a
neat assembly, I got signal cancelation.

3) Any suggestions to improve this design?

4) Any suggestions for alternitive DIY designs?

Thanks

2542. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 05:39:30 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <qmxII.84715$9t6.68091@newsfe10.iad>
Source record: 16015

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BF84E6F13686nonenowhere@61.9.191.5...
> Well, we all like Distortionless Lines, almost all ham discussion
> and indeed much if not most textbook discussion is about one
> special case of a Distortionless Line, the Lossless Line.
>
> Nevertheless, we apply one property of Distortionless Lines to
> real lines, the property that Zo=Ro+j0, and that Zo is independent
> of frequency.

Or, in other words, the Heaviside Condition is met.

C/G = L/R

This is met in lossless lines with R and G being zero, and the
characteristic
impedance being real.

_____ _____
Zo = v((R + j?L)/(G + j?C)) = v(L/C)

> But, a real Distortionless Line (real excludes Lossless) doesn't
> have much application for us.

Consider that with real inductors and capacitors, the permeability,
�, and the permittivity, e, are themselves often complex.

� = �' + j�" and e = e' + je"

Of the two, I am most familiar with dielectric properties of
polymers as a function of frequency. With plastics like
polyethylene and polytetrafluoroethylene, e' (the real part) remains
fairly constant from low frequencies well into the microwave region,
and e" (the imaginary part) is quite low. Plastics like
polyvinylchloride, on the other hand, show an increasing e" with
frequency due to rotational hindrances of strong dipoles in the
polymer.

Similar frequency dependencies are seen at optical frequencies,
where the refractive index is a function of wavelength. Chromatic
aberration, the failure of a lens to focus all colors to the same
point, is caused by this change of refractive index with
wavelength. In general, the refractive index of a material
increases with increasing frequency. In the infrared and visible
portions of the spectra, we see large changes in permittivity
because of vibrational resonances in the polymer groups.

> Though I haven't had my hands on a Distortionless Line, it occurs
> to me that increasing L/m is a means of diminishing the effect of
> changing R/m, making G/m higher is another means of making Zo
> real, and if the materials make R/m(f) track G/m(f) closely ...
> then the problem is mostly solved.

With typical commercial coaxial cables, the ratio of shunt conductance to shunt capacitance is generally much lower than the ratio of series resistance to series inductance (all per unit length). This makes the characteristic impedance complex, and the cable causes distortion.

In the weird cable I described earlier, the resistance of the wire would increase linearly with the number of turns per unit length but the inductance would increase as the square of the turns per unit length. So there would be merit here. Increasing the shunt conductance will also help at the expense of making the cable extremely lossy.

While we have been talking about conventional electrical transmission lines, we can also analyze nerves as a transmission line. A nerve is essentially an electrical transmission line with chemical transducers on each end. When a receptor synapse detects a neurotransmitter, like serotonin or norepinephrin, it sends an electrical signal down the neuron. The neuron is the transmission line. It is essentially an ionic conductor covered with a fatty substance known as myelin. The result is a distributed resistance-capacitance line. In diabetics, the myelin sheath is partially destroyed and replaced with sorbitol, a sugar alcohol. In addition to being more conductive than myelin, sorbitol has a far higher dielectric constant. Viewing the neuron as a distributed RC line, we have both added shunt conductance and increased the capacitance. It is no wonder that nerve conduction velocity and amplitude both decrease resulting in such things as peripheral neuropathy, usually associated with diabetics.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

2543. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 05:52:15 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BF8A172A9707nonenowhere@61.9.191.5>
Source record: 16016

"Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> wrote in news:qmxIl.84715
$9t6.68091@newsfe10.iad:

...
> While we have been talking about conventional electrical
> transmission lines, we can also analyze nerves as a transmission
> line. A nerve is essentially an electrical transmission line with
> chemical transducers on each end. When a receptor synapse detects
> a neurotransmitter, like serotonin or norepinephrin, it sends an
> electrical signal down the neuron. The neuron is the transmission
> line. It is essentially an ionic conductor covered with a fatty
> substance known as myelin. The result is a distributed resistance-
> capacitance line. In diabetics, the myelin sheath is partially
> destroyed and replaced with sorbitol, a sugar alcohol. In addition
> to being more conductive than myelin, sorbitol has a far higher
> dielectric constant. Viewing the neuron as a distributed RC line,
> we have both added shunt conductance and increased the capacitance.
> It is no wonder that nerve conduction velocity and amplitude both
> decrease resulting in such things as peripheral neuropathy, usually
> associated with diabetics.

I contracted a disease when I was young, a disease that caused the body's T cells to attack the cells of the mylon sheath (in our terms, the dielectric that separates the =ve and -ve ionic material in the nerve's coaxial cable, effectively shorting the coax.

During a week or two of onset of the disease, the doctors performed TDR like tests on nerves in my legs, placing a pair if needles each side of a motor nerve, at each end of the nerve, and pulsing the nerve from a signal generator. The sig gen fired a CRO with a camera and 100' roll film back. They took thousands of pics over the couple of weeks, measuring attenuation and velocity of propagation.

Yes, I am aware that there are parallels.

Owen

2544. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 06:00:12 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BF8A2CC0B2FEnonenowhere@61.9.191.5>
Source record: 16017

Barry,

I see I got the spelling of myelin wrong.

I remember things I see, and at that time I couldn't focus on things, never saw the word written, was paralysed and was distressed at drowning in my own secretions because I couldn't swallow and couldn't cough.

Anyway, I have got it now, myelin!

Owen

2545. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 07:14:18 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <g4SII.102047$e_5.49328@newsfe03.iad>
Source record: 16030

"Owen Duffy" <none@no.where> wrote in message
news:Xns9BF8A2CC0B2FEnonenowhere@61.9.191.5...
> Barry,
>
> I see I got the spelling of myelin wrong.

Don't worry, Owen. Most of the time, I put two "l's" in the word myself!

> I remember things I see, and at that time I couldn't focus on
> things, never saw the word written, was paralyzed and was
> distressed at drowning in my own secretions because I couldn't
> swallow and couldn't cough.

About two years ago I developed phlebitis. I went to the doctor who had Doppler ultrasound tests run. He told me that my circulation was good and that the swelling in the left leg would clear up by itself within a week. But one of my toes swelled up and cracked open. Being a diabetic, I immediately returned to the physician. He told me that I had just enough time to drop by my home and pick up some clean underwear to take with me to the hospital. When I got to the emergency room, admission papers were waiting. I had no idea that septicemia could set in so fast.

They amputated two toes, then another, and finally my entire left foot. Meanwhile I had continuous IV injections of some of the world's strongest antibiotics. I lost weight too - from 215 to 155 pounds. Small clumps of dead blood cells were sloughing off my heart valves and one blocked a tiny capillary in my brain causing expressive aphasia. It only lasted about three days, but I will forever empathize with stroke victims. I could do complex math in my head, but I could not speak a complete sentence. Fortunately I started recovering soon after the foot was taken.

I am posting this history here as a warning to other diabetics. My HgA1c had been running less than 5.5; most diabetics are considered to have good control if this number is below 7. My point is that even with good glucose control, problems can still develop.

I too have had nerve conduction studies. As you said, they stick little electrodes in your muscles and nerve bundles, only now they have fancy microprocessor-controlled machines to do the tests. But the tests are just as painful!

The worst thing I remember was the neurologist bragging to his nurse, telling her,"Now if I turn this knob, I can make his big toe

rotate counter-clockwise."

Thanks for an interesting discussion, Owen.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

2546. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 14:22:21 UTC
From: Dave <noone@nowhere.com>
Message-ID: <x0FII.2752$b11.2611@nwrddc02.gnilink.net>
Source record: 16019

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:3f37a877-63a8-44a8-abf2-1f1685e7c10c@x5g2000yqk.googlegroups.com...
On Apr 24, 6:48 pm, dave <d...@dave.dave> wrote:

>There is something going on

yeah, more people are understanding that you are full of hot air.

>I am outa here.

awwww, just when it was starting to get to be fun.

> Why not just review my patent request to get the info

patents are only meant for lawyers, they rarely have anything really
interesting in them. unless of course yours is written like the faster than
light antenna that also makes plants grow faster.

2547. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 15:59:59 UTC
From: JB <nospam@goofball.net>
Message-ID: <3sGIl.532$fy.42@nwrddc01.gnilink.net>
Source record: 16020

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:GJmIl.25349$Ws1.8143@nlpi064.nbdc.sbc.com...
> JB wrote:
> > No and No. Nor can I read Aramaic, Greek or other languages. Thanks
for
> > the illustration.
>
> God could really have impressed us if He had told Moses
> to write: "In the beginning, God created the Big Bang."
> Assuming that God knew He had created the Big Bang,
> why didn't He tell Moses to write those words?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Because then he would have had to explain himself.

Have you actually read the anguish of Moses trying to keep those people together just so they could have a future? Clearly God stimulates their anticipation of the future but doesn't give any more detail than what is necessary. Clearly more information is given than what they understand until the event comes to pass. It becomes clear (although some seem to embellish) that God intends to lead them forward with His complete timeline knowledge.

2548. Re: American interpretation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 16:06:42 UTC
From: JB <nospam@goofball.net>
Message-ID: <myGII.533$fy.12@nwrddc01.gnilink.net>
Source record: 16021

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gst2ic$do30$1@tr22n12.aset.psu.edu...
> Richard Clark wrote:
> > On Thu, 23 Apr 2009 16:04:02 -0400, Michael Coslo <mjc5@psu.edu>
> > wrote:
> >
> >> Richard Clark wrote:
> >>> On Thu, 23 Apr 2009 19:23:55 GMT, "JB" <nospam@goofball.net> wrote:
> >>>
> >>>> I doubt the sincerity
> >>>> of what this "might be."
> >>> You got that right. Just exercising a line of thought.
> >>> I will skip the rest of the fluff.
> >> Just when it was getting good! We were close to hearing how the
Somalian
> >> pirates believe in evolution, and I was hoping to get a Jeffrey
> >> Dahmer/evolution connection.
> >
> > Hi Mike,
> >
> > I don't know what dots you are trying to connect, especially from a
> > argument that lifts its rhetoric from the CIA playbook of the late 40s
> > [gad, that rusty polemic of Stalin getting a free ride reeks of
> > Nixon's first stump speech].
>
>
> After being compared with Ol' commie Joe, I figured that since we were
> in the name calling stage, I might as well see how many names I could
> get JB to call me. I thought you were going soft on the OM.
>
I guess you didn't get what I said (it's not about you) now I don't know
what you are talking about.

2549. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 17:31:43 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <9134ad02-e551-4c5c-becf-05717feb8546@y6g2000prf.googlegroups.com>
Source record: 16022

On Apr 24, 10:33 pm, Gordon <go...@alltomyself.com> wrote:
> This seems to be the only news group devoted to the topic of antennas.
> (and the origins of the universe). So maybe you guys can help me
> with this.
>
> I have been experimenting with fabricating a decent
> indoor DTV antenna. I have tried several things. What I have
> now is two bowties spaced about 7 inches apart on a wood dowel.
> A peanut butter jar with rocks in it makes up the base.
>
> It seems to give pretty good performance. It could be better.
> But I am wondering about a few things.
>
> 1) Right now all the digital transmissions are in the UHF band.
> but in 6 weeks, three stations will move back to their VHF
> assignments in the VHF high band.
> How well can I expect my antenna to work in that frequency band?
>
> 2) I have not trimmed or dressed the twin lead from the bowties.
> I understand that twin-lead can act as antennas. So what
> is the best way to manage the twinlead? Cut it back? I noticed
> that when i laid the leads together, in an attempt to make a
> neat assembly, I got signal cancelation.
>
> 3) Any suggestions to improve this design?
>
> 4) Any suggestions for alternitive DIY designs?
>
> Thanks

If you search for "diy hdtv antenna" or "diy dtv antenna" you will
come up with other ideas. Someone posted a question a while back here
about a design that apparently is pretty forgiving and not too hard to
construct and is claimed to give decent gain; see
http://www.digitalhome.ca/ota/superantenna/.

Dave P's comments are good, though RG-8 is 50 ohm, not 75 ohm. Good
RG-6 type cable should work well for at least short runs, and it is
nominally 75 ohms. I don't know about your TV (or converter box), but
pretty much all the ones I've seen that receive digital TV broadcasts
have 75 ohm F connector inputs anyway, so you may as well go straight
to RG-6 at the source (the antenna).

Cheers,
Tom

2550. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 17:54:45 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <msi6v4l9a3i71gks7u7rhfr3ohu3vi2s6i@4ax.com>
Source record: 16023

On 25 Apr 2009 06:33:45 +0100, Gordon <gonzo@alltomyself.com> wrote:

>I have been experimenting with fabricating a decent
>indoor DTV antenna.

Hi Gordon,

This is a goal in conflict if we are to take it at face value. For one, DTV has design demands that call for widebandedness. This, and the combination for VHF coverage combine to drive the design to being large. This is typically the domain of outdoor antennas, and for good reason (large for DTV is going to be honestly large).

> I have tried several things. What I have
>now is two bowties spaced about 7 inches apart on a wood dowel.
>A peanut butter jar with rocks in it makes up the base.
>
>It seems to give pretty good performance. It could be better.
> But I am wondering about a few things.
>
>1) Right now all the digital transmissions are in the UHF band.
> but in 6 weeks, three stations will move back to their VHF
> assignments in the VHF high band.
> How well can I expect my antenna to work in that frequency band?

This is a simple matter of scaling. If the frequency shift is by an order of, say, 2:1; then the size will increase by an order of 1:2. Frequency and size are in an inverse relationship. Try doubling the size of your current design, and looking for a gallon size peanut butter jar.

>2) I have not trimmed or dressed the twin lead from the bowties.
> I understand that twin-lead can act as antennas. So what
>is the best way to manage the twinlead? Cut it back? I noticed
>that when i laid the leads together, in an attempt to make a
>neat assembly, I got signal cancelation.

This is an indoor antenna. It is going to suffer from any number of things in proximity and your attempts to dress the leads probably were not responsible for the signal quality change you observed. I will bet that attempt to make a neat assembly had a lot of re-arranging going on in addition to the lead dressing.

>3) Any suggestions to improve this design?
>
>4) Any suggestions for alternitive DIY designs?

Wait until you have a problem before you try solutions. As I said above, your goal is in conflict with interior available dimensions. The truth of the matter is that a simple rabbit ears antenna might do just as well as the best of the DIY designs littering pages across the WWW.

73's
Richard Clark, KB7QHC

2551. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-25 23:56:11 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BF8A2167D8Agreederxprtnet@194.177.98.144>
Source record: 16024

Richard Clark <kb7qhc@comcast.net> wrote in
news:msi6v4l9a3i71gks7u7rhfr3ohu3vi2s6i@4ax.com:

> On 25 Apr 2009 06:33:45 +0100, Gordon <gonzo@alltomyself.com> wrote:
>
>>I have been experimenting with fabricating a decent
>>indoor DTV antenna.
>
> Hi Gordon,
>
> This is a goal in conflict if we are to take it at face value. For
> one, DTV has design demands that call for widebandedness. This, and
> the combination for VHF coverage combine to drive the design to being
> large. This is typically the domain of outdoor antennas, and for good
> reason (large for DTV is going to be honestly large).

I know. I'm trying to find a good compromise. But it may not
exist. Unfortunatly, I can't mount an outdoor antenna. I rent,
and the landlord won't alow it.
>
>> I have tried several things. What I have
>>now is two bowties spaced about 7 inches apart on a wood dowel.
>>A peanut butter jar with rocks in it makes up the base.
>>
>>It seems to give pretty good performance. It could be better.
>> But I am wondering about a few things.
>>
>>1) Right now all the digital transmissions are in the UHF band.
>> but in 6 weeks, three stations will move back to their VHF
>> assignments in the VHF high band.
>> How well can I expect my antenna to work in that frequency band?
>
> This is a simple matter of scaling. If the frequency shift is by an
> order of, say, 2:1; then the size will increase by an order of 1:2.
> Frequency and size are in an inverse relationship. Try doubling the
> size of your current design, and looking for a gallon size peanut
> butter jar.
>
I've done the math. Channel 2 has a wavelength of about 18 feet and
channel 50 is about 1.4 feet. More than a 2:1 ratio. I do catch a
break since the VHF lo band is going to be vacated in this area. So
channel 8 is the lowest frequency I need to worry about (wavelength
of approx 5.5 feet).

>>2) I have not trimmed or dressed the twin lead from the bowties.
>> I understand that twin-lead can act as antennas. So what
>>is the best way to manage the twinlead? Cut it back? I noticed
>>that when i laid the leads together, in an attempt to make a
>>neat assembly, I got signal cancelation.
>
> This is an indoor antenna. It is going to suffer from any number of
> things in proximity and your attempts to dress the leads probably were
> not responsible for the signal quality change you observed. I will
> bet that attempt to make a neat assembly had a lot of re-arranging
> going on in addition to the lead dressing.
>

Actually, I tried to keep the situation as controlled as possible.
I initially had the leads just drapped down the "mast" (dowel) to
a balun. It was my wife that tried to improve the asthetics by
neatening up the twinleads. Then she complained that reception
was bad. That's when I was experimenting with the dressing of
the leads. Right now I have it "dressed ugly", but it works.

>>3) Any suggestions to improve this design?
>>
>>4) Any suggestions for alternitive DIY designs?
>
> Wait until you have a problem before you try solutions. As I said
> above, your goal is in conflict with interior available dimensions.
> The truth of the matter is that a simple rabbit ears antenna might do
> just as well as the best of the DIY designs littering pages across the
> WWW.

No, the rabbit ears didn't work very well at all. That's why I have been
experimenting. I have seen a lot of the DIY designs littering the
WWW. This dual bowtie design is mine, tho.

>
> 73's
> Richard Clark, KB7QHC

2552. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 00:04:20 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <rd87v4d91vcb7er4ktdqjejrq1jehn25sj@4ax.com>
Source record: 16026

On 26 Apr 2009 00:56:11 +0100, Gordon <gonzo@alltomyself.com> wrote:

>I've done the math. Channel 2 has a wavelength of about 18 feet and
>channel 50 is about 1.4 feet. More than a 2:1 ratio. I do catch a
>break since the VHF lo band is going to be vacated in this area. So
>channel 8 is the lowest frequency I need to worry about (wavelength
>of approx 5.5 feet).

Hi Gordon,

Yes, you've got the minimum specifications there. The widest part of your antenna, at an optimum, would be something under 3 feet (half the channel 8 wavelength) - still pretty big for indoors, especially if the stations are in an awkward angle.

And speaking of stationS (accent on the plural), your design requirements are going to be complex if they are not all on the same axis/direction. And speaking further of stationS, you will need to cover a broad range of frequencies.

The usual, optimal design is called a Log Periodic Dipole Array (or variants of Log _____). It would qualify for being both widebanded enough for one, or many, adjacent channels (growing in length and element count for additional channels). This is why I described the optimal antenna as being "honestly" big.

Smaller antennas are not going to deliver performance - but, again, you may not need optimum, nor performance when the time comes. The bow tie you've described elsewhere seems a suitable compromise.

>Actually, I tried to keep the situation as controlled as possible.
>I initially had the leads just drapped down the "mast" (dowel) to
>a balun. It was my wife that tried to improve the asthetics by
>neatening up the twinleads. Then she complained that reception
>was bad. That's when I was experimenting with the dressing of
>the leads. Right now I have it "dressed ugly", but it works.

Twinlead is fairly robust "except" when it is in close (three widths) to metal or an RF absorber. As marginal as your situation sounds, my bets are still with clutter near the antenna which is MORE prone to disturbance than the line is.

>No, the rabbit ears didn't work very well at all. That's why I have been
>experimenting. I have seen a lot of the DIY designs littering the
>WWW. This dual bowtie design is mine, tho.

When the band shift comes, rabbit ears could work quite well. Don't take the plunge into elaborate designs until you have some basis of comparison is all I am suggesting.

73's
Richard Clark, KB7QHC

2553. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 00:28:48 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BF8A79E7802Dgreederxprtnet@194.177.98.144>
Source record: 16025

K7ITM <k7itm@msn.com> wrote in news:9134ad02-e551-4c5c-becf-05717feb8546
@y6g2000prf.googlegroups.com:

> If you search for "diy hdtv antenna" or "diy dtv antenna" you will
> come up with other ideas. Someone posted a question a while back here
> about a design that apparently is pretty forgiving and not too hard to
> construct and is claimed to give decent gain; see
> http://www.digitalhome.ca/ota/superantenna/.

I have done that. In fact I have seen plenty of designs: Yagis,
The Coathanger antenna, etc. I have printed up the design of the
Grey-Hoverman. I could even build up a copy of the pVC design
and place it against the house, outside.
We actually had the Radio Shack model that is mentioned
on that site. my dad had it in the pre-CATV days. When I began to
set up the DTV reciever, I asked my dad about the old antenna, but
he didn't know what became of it.

>
> Dave P's comments are good, though RG-8 is 50 ohm, not 75 ohm. Good
> RG-6 type cable should work well for at least short runs, and it is
> nominally 75 ohms. I don't know about your TV (or converter box), but
> pretty much all the ones I've seen that receive digital TV broadcasts
> have 75 ohm F connector inputs anyway, so you may as well go straight
> to RG-6 at the source (the antenna).
>
I'm not sure what type of RG I am using. I should point out that I
have the twinleads running down the dowel to a balun. From there,
about 3 to 4 feet of coax runs to the converter box. I could just
put the converter closer to the antenna and slip the balun right
onto the converter.

2554. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 02:46:55 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <R0QII.15486$pr6.5577@flpi149.ffdc.sbc.com>
Source record: 16027

Gordon wrote:
> Unfortunatly, I can't mount an outdoor antenna. I rent,
> and the landlord won't allow it.

Isn't there a federal law allowing TV antennas?
Or did you sign a personal contract agreeing
not to install a TV antenna?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2555. Re: Loading coils: was Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 02:51:14 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <c9c78d16-c1fc-4fc9-bc51-1cbdcafc95e3@f41g2000pra.googlegroups.com>
Source record: 16028

On Apr 25, 10:22 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:3f37a877-63a8-44a8-abf2-1f1685e7c10c@x5g2000yqk.googlegroups.com...
> On Apr 24, 6:48 pm, dave <d...@dave.dave> wrote:
>
> >There is something going on
>
> yeah, more people are understanding that you are full of hot air.
>
> >I am outa here.
>
> awwww, just when it was starting to get to be fun.
>
> > Why not just review my patent request to get the info
>
> patents are only meant for lawyers, they rarely have anything really
> interesting in them. unless of course yours is written like the faster than
> light antenna that also makes plants grow faster.

Art seems to think that getting a patent validates an idea. In fact
devices/ideas that claim to violate known laws of physics are easiest
to patent as they will have little to no conflict with other patents.

Jimmie

2556. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 04:17:47 UTC
From: dplatt@radagast.org
Message-ID: <bs3dc6-eof.ln1@radagast.org>
Source record: 16029

>> Unfortunatly, I can't mount an outdoor antenna. I rent,
>> and the landlord won't allow it.
>
>Isn't there a federal law allowing TV antennas?
>Or did you sign a personal contract agreeing
>not to install a TV antenna?

The OTARD rule (to which you're referring) allows installation of an over-the-air TV antenna, but it only applies if the antenna is installed in an area which is exclusively for the tenant's use.

People who rent houses are usually able to take advantage of it. Apartment dwellers often can't, because they aren't renting the whole building and thus don't have "exclusive use" rights to the roof or exterior.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

2557. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 07:44:30 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <mzG5fTGeDB9JFwBw@g3ohx.demon.co.uk>
Source record: 16031

In message <rd87v4d91vcb7er4ktdqjejrq1jehn25sj@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>

>>

>

>When the band shift comes, rabbit ears could work quite well. Don't
>take the plunge into elaborate designs until you have some basis of
>comparison is all I am suggesting.
>
I would start with sticking a screwdriver in the TV antenna socket.

While a properly designed and constructed DTV antenna, mounted in the
right place, will undoubtedly work well, some of the homebrew designs
you find on the internet are probably even less efficient than a
screwdriver.
--
Ian

2558. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 12:22:07 UTC
From: dave <dave@dave.dave>
Message-ID: <XZadnak6qIRyzGnUnZ2dnUVZ_tWdnZ2d@earthlink.com>
Source record: 16032

Dave Platt wrote:
>>> Unfortunatly, I can't mount an outdoor antenna. I rent,
>>> and the landlord won't allow it.
>> Isn't there a federal law allowing TV antennas?
>> Or did you sign a personal contract agreeing
>> not to install a TV antenna?
>
> The OTARD rule (to which you're referring) allows installation of an
> over-the-air TV antenna, but it only applies if the antenna is
> installed in an area which is exclusively for the tenant's use.
>
> People who rent houses are usually able to take advantage of it.
> Apartment dwellers often can't, because they aren't renting the whole
> building and thus don't have "exclusive use" rights to the roof or
> exterior.
>

But if you have a terrace or a porch, you may install a receiving
antenna for broadcast or satellite on that porch.

2559. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 12:23:23 UTC
From: dave <dave@dave.dave>
Message-ID: <XZadnag6qlSmz2nUnZ2dnUVZ_tWdnZ2d@earthlink.com>
Source record: 16033

Ian Jackson wrote:
> In message <rd87v4d91vcb7er4ktdqjejrq1jehn25sj@4ax.com>, Richard Clark
> <kb7qhc@comcast.net> writes
>>
>
>>>
>
>>
>
>
>> When the band shift comes, rabbit ears could work quite well. Don't
>> take the plunge into elaborate designs until you have some basis of
>> comparison is all I am suggesting.
>>
> I would start with sticking a screwdriver in the TV antenna socket.
>
> While a properly designed and constructed DTV antenna, mounted in the
> right place, will undoubtedly work well, some of the homebrew designs
> you find on the internet are probably even less efficient than a
> screwdriver.

I have seen some very clever antennas on the internet. More clever than
the BS this newsgroup is top-heavy with.

2560. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 13:08:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <vVYIl.3167$fD.2323@flpi145.ffdc.sbc.com>
Source record: 16034

Dr. Barry L. Ornitz wrote:
> I too have had nerve conduction studies.

I also. The voltage getting to the nerves in my
feet is 2% of normal.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2561. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 13:15:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <v7ZII.19701$as4.12461@nlpi069.nbdc.sbc.com>
Source record: 16035

Dave Platt wrote:
> The OTARD rule (to which you're referring) allows installation of an
> over-the-air TV antenna, but it only applies if the antenna is
> installed in an area which is exclusively for the tenant's use.
>
> People who rent houses are usually able to take advantage of it.
> Apartment dwellers often can't, because they aren't renting the whole
> building and thus don't have "exclusive use" rights to the roof or
> exterior.

However, they do have exclusive rights to their balcony
or patio so that's something to consider.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2562. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 14:55:14 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <nB_ll.15240$hc1.231@flpi150.ffdc.sbc.com>
Source record: 16036

Cecil Moore wrote:
> Dr. Barry L. Ornitz wrote:
>> I too have had nerve conduction studies.
>
> I also. The voltage getting to the nerves in my
> feet is 2% of normal.

That's because you're longer than anyone else.
73,
Tom Donaly, KA6RUH

2563. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 17:57:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <K91Jl.17015$D32.4880@flpi146.ffdc.sbc.com>
Source record: 16037

Tom Donaly wrote:
> That's because you're longer than anyone else.

Well, just longer than most. The doctor says that
when the distance from my spinal column to the
numbness in my legs gets equal to the distance
from my spinal column to my fingers, they will
also start to get numb. It's something that
happens but nobody seems to know why.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2564. Re: Loading coils: was Re: Dish reflector now: Delay Lines

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 18:25:27 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <CG1Jl.25496$Ws1.3326@nlpi064.nbdc.sbc.com>
Source record: 16038

Cecil Moore wrote:
> Tom Donaly wrote:
>> That's because you're longer than anyone else.
>
> Well, just longer than most. The doctor says that
> when the distance from my spinal column to the
> numbness in my legs gets equal to the distance
> from my spinal column to my fingers, they will
> also start to get numb. It's something that
> happens but nobody seems to know why.

That sounds like something not to look forward to.
You'd think medical researchers would be able to at
least hazard a guess. I have a friend with a similar
problem and the same response from his doctors.
73,
Tom Donaly, KA6RUH

2565. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 22:10:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c232d6a5-7240-45da-bd71-dc6683f05376@b7g2000pre.googlegroups.com>
Source record: 16039

On Apr 11, 3:58 am, Helmut Wabnig <hwabnig@ .- --- -. dotat> wrote:
> On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>
>
>
> <ArthurUn...@gmail.com> wrote:
> >I made a helical end fed antenna that is inside a cone shaped
> >reflector
> >The reflector is made from 1/2" mesh steel with an aluminum foil liner
> >and connected to the braid of the feed coax. No baluns are used, just
> >direct connections.
> > I was surprised to hear signals from the rear!
> > I thought that a dish reflector prevented such signals getting to the
> >receiver. So what can be wrong with the reflector or can signals get
> >reflected back from the frontal area? Antenna is at a 40 foot height
> >Any ideas as to what the fault could be?
> >Regards
> >Art
> >I have no experience with dishes thus the question Note, the helical
> >antenna does not protrude beyond the dish envelope.
> >Art
>
> How do you know?
> The "rear" signals may come from the front side actually, having
> been reflected by your neighbours house, or distant mountains,
> or anything in between.
>
> w.

Helmut
I do not know if the rear signals were as you suspected.,
It is extremely windy here in the midwest for the last few days
so I took off the new dish of it's ground stand and placed the dish in
a corner outside the house with a TOA that I assume is about 10-15
degrees. Again I got rear signals
but I noticed the coverage was very narrow and maybe more than one.
So next two weeks or so I will repeat the test but also play around
with the elevation
to see if there are other observables to determine if you are correct.
I am playing with circular polarisation which is a new experience for
me and I believe that is capable of picking up reflections that one
does not normally see with planar designs
Best regards
Art

2566. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-26 23:54:12 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <05r9v4dtr9ca520ig6d3btcs90if124a3p@4ax.com>
Source record: 16040

On 25 Apr 2009 06:33:45 +0100, Gordon <gonzo@alltomyself.com> wrote:

>This seems to be the only news group devoted to the topic of antennas.
>(and the origins of the universe). So maybe you guys can help me
>with this.

Cosmology is often easier to understand than the antenna designs.

>I have been experimenting with fabricating a decent
>indoor DTV antenna.

Please define "decent". You know, the numbers.
How big? (max allowed length, width, height)
How much bandwidth (VHF, UHF, or both?)
Minimum (average) gain?
Mounting limitations?
Omni or directional? Rotator?

I'm also partial to NEC2 models of creative designs. They often show
problems that are not obvious until after the antenna is built. If
you're going to design your own, spend the time building a model.

>I have tried several things.

You seem to have done your homework. Also see:
<http://www.hdtvprimer.com/ANTENNAS/comparing.html>
Some are indoor antennas, which should give you a clue as to what to
expect.

>What I have
>now is two bowties spaced about 7 inches apart on a wood dowel.
>A peanut butter jar with rocks in it makes up the base.

2 element yagi like design?
>
>It seems to give pretty good performance. It could be better.
>
>But I am wondering about a few things.
>
>1) Right now all the digital transmissions are in the UHF band.
> but in 6 weeks, three stations will move back to their VHF
> assignments in the VHF high band.
> How well can I expect my antenna to work in that frequency band?

Dunno. I haven't seen any dimensions. Plug the current design into
an NEC model and see what comes out at VHF frequencies. My guess is
that it will be worse than hideous. You would do better with

adjustable rabbit ears.

>2) I have not trimmed or dressed the twin lead from the bowties.
> I understand that twin-lead can act as antennas. So what
>is the best way to manage the twinlead? Cut it back? I noticed
>that when i laid the leads together, in an attempt to make a
>neat assembly, I got signal cancelation.

Lose the twin lead. The problem with balance line is that any mechanical imbalance (i.e. proximity to walls, objects, people, etc) will unbalance the line, causing some radiation. Such radiation shows up as loss, something you can barely tolerate with such a minimal antenna. If your design is setup for a 300 ohm match, install a balun and run 75 ohm RG-6/u coax instead.

>3) Any suggestions to improve this design?

Improve how? More gain? More bandwidth? Smaller? Numbers please.

>4) Any suggestions for alternitive DIY designs?

Yes, but you may find them rather unconventional.

I once built a log periodic antenna on a sheet of plywood, using #14 AWG house wire and two parallel wires for the transmission line. Elements were arranged on both sides of the plywood and secured with a staple gun. This was for a ladyfriend, who was stuck with severe limitations on outside antenna installations. I hung it from the ceiling, which was the only place suitable for the monstrosity. 4-6dBi gain from 60 to 800MHz (no channel 2). Where were a few ghosts, but it worked much better than the rabbit ears and UHF loop it replaced. However, it only lasted about a month. The landlord found out and demanded its removal while muttering something about attracting flying saucers and alien visitors. Oh well.

Another TV antenna I built took advantage of the chicken wire buried under the stucco outside of the house. The chicken wire acted as the antenna reflector, which was conveniently arranged in the right direction. The driven elements were 4ea phased bow-tie dipoles, hidden behind a decorative wood grating. It didn't work as well as I predicted, but good enough to get decent OTA TV reception.

If you have a suitable window facing the right direction, you can do something with aluminum foil tape. I use aluminum duct tape cut down to size for this purpose. For electrical connections, copper stained glass tape soldered to the coax cable. Any antenna with horizontal polarization will work. You won't get much gain, but the outside window location will somewhat compensate for the lack of gain by offering a less cluttered line of sight to the TV xmitter.

Anyway, use your imagination, but also run the numbers and do a model.

--
Jeff Liebermann jeffl@cruzio.com

150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2567. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 01:22:54 UTC
From: Rick <kc9lv@yahoo.com>
Message-ID: <bd3b788b-f1be-42a0-ae0f-8e2594c38244@v23g2000pro.googlegroups.com>
Source record: 16041

```
On Apr 26, 12:17 am, dpl...@radagast.org (Dave Platt) wrote:
> >> Unfortunatly, I can't mount an outdoor antenna.  I rent,
> >> and the landlord won't allow it.
>
> >Isn't there a federal law allowing TV antennas?
> >Or did you sign a personal contract agreeing
> >not to install a TV antenna?
>
> The OTARD rule (to which you're referring) allows installation of an
> over-the-air TV antenna, but it only applies if the antenna is
> installed in an area which is exclusively for the tenant's use.
>
> People who rent houses are usually able to take advantage of it.
> Apartment dwellers often can't, because they aren't renting the whole
> building and thus don't have "exclusive use" rights to the roof or
> exterior.
>
> --
> Dave Platt <dpl...@radagast.org>                                    AE6EO
> Friends of Jade Warrior home page:  http://www.radagast.org/jade-warrior
>   I do _not_ wish to receive unsolicited commercial email, and I will
>      boycott any company which has the gall to send me such ads!

Unless they have a balcony which is their "own space".
```

2568. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 02:41:38 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <3q6av4dc30fc9ikjk9u96mrn7m4vdekhgi@4ax.com>
Source record: 16042

On Sun, 26 Apr 2009 16:54:12 -0700, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>>What I have
>>now is two bowties spaced about 7 inches apart on a wood dowel.
>>A peanut butter jar with rocks in it makes up the base.

Like this?
<http://www.hdtvprimer.com/ANTENNAS/DoubleBow.html>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2569. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 18:29:20 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gt4ti0$jr8$1@news.jpl.nasa.gov>
Source record: 16043

Dave Platt wrote:
>>> Unfortunatly, I can't mount an outdoor antenna. I rent,
>>> and the landlord won't allow it.
>> Isn't there a federal law allowing TV antennas?
>> Or did you sign a personal contract agreeing
>> not to install a TV antenna?
>
> The OTARD rule (to which you're referring) allows installation of an
> over-the-air TV antenna, but it only applies if the antenna is
> installed in an area which is exclusively for the tenant's use.
>
> People who rent houses are usually able to take advantage of it.
> Apartment dwellers often can't, because they aren't renting the whole
> building and thus don't have "exclusive use" rights to the roof or
> exterior.
>

It's considerably more subtle than that, since there are large
commercial interests at play (unlike for ham antennas)..

Go to the FCC OTARD page and get the real scoop.
http://www.fcc.gov/mb/facts/otard.html

As a practical matter, the courts/adminstrative law judges have held
that the landlord's control does not cover, for instance, the air space
outside your window, so if you can mount the antenna within the window's
dimensions(either inside or outside), you're good to go. It is ok for
the landlord to prohibit, say, attaching to the wall outside, though.
Whether the window frame itself is "under your control" is another question.

2570. NEC2 - Correcting for element taper on a loaded element?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 19:05:37 UTC
From: Scott M <mcclements@gmail.com>
Message-ID: <4339cc7d-6631-40ab-8ed7-0a582aade90d@n7g2000prc.googlegroups.com>
Source record: 16044

Hi All,

I tried this post on the towertalk reflector. I should have tried it first as I find more of you NEC guy hang out here (why is that anyway!??!?).

I was modeling a Cushcraft 402CD loaded 40m yagi. I use Nec-Win Plus and MultiNEC. I enabled stepped diameter correction in both programs and noticed that in both programs a taper correction didn't occur. The output from NEC-Win Plus during the taper correction seemed unhappy because the element resonated around 11Mhz, but the simulation frequency range was 7 Mhz.

How can I calculate a taper correction for a loaded element?

-Scott, WU2X

2571. Re: NEC2 - Correcting for element taper on a loaded element?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 20:54:20 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <cn6cv49tfsgebqh10aq9aee5ojscai5upa@4ax.com>
Source record: 16045

On Mon, 27 Apr 2009 12:05:37 -0700 (PDT), Scott M
<mcclements@gmail.com> wrote:

>How can I calculate a taper correction for a loaded element?

Hi Scott,

It sounds like you have more problems than taper if your 40M antenna
is resonating at 11 MHz. The clue appears to be in the word "loaded
element."

73's
Richard Clark, KB7QHC

2572. Re: NEC2 - Correcting for element taper on a loaded element?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 21:20:05 UTC
From: Scott M <mcclements@gmail.com>
Message-ID: <9aff206b-4353-432b-af8e-89df078dc144@d7g2000prl.googlegroups.com>
Source record: 16046

I meant without the loads (inductors) in place. Regardless if they
are in the model or not, the model isn't being converted to a
constant diameter. -Scott

On Apr 27, 4:54 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Mon, 27 Apr 2009 12:05:37 -0700 (PDT), Scott M

> It sounds like you have more problems than taper if your 40M antenna
> is resonating at 11 MHz.

2573. Re: NEC2 - Correcting for element taper on a loaded element?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 22:13:28 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <p8bcv493582ms936i68lfeo9pe2cdmbal7@4ax.com>
Source record: 16047

On Mon, 27 Apr 2009 14:20:05 -0700 (PDT), Scott M
<mcclements@gmail.com> wrote:

>I meant without the loads (inductors) in place.

Hi Scott,

Then that detail is not essential.

>Regardless if they
>are in the model or not, the model isn't being converted to a
>constant diameter. -Scott

This would surprise me if it did. Tapering involves the segments of
one wire being converted into wires of diminishing length.

73's
Richard Clark, KB7QHC

2574. Re: NEC2 - Correcting for element taper on a loaded element?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-27 22:25:35 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <cubcv49ljco13j6lc8i5kk58dokfv1icb3@4ax.com>
Source record: 16048

On Mon, 27 Apr 2009 12:05:37 -0700 (PDT), Scott M
<mcclements@gmail.com> wrote:

> I enabled stepped diameter correction in both programs
>and noticed that in both programs a taper correction didn't occur.

Hi Scott,

I went back to your original posting after pondering how your
question:
>How can I calculate a taper correction for a loaded element?
wanders through several topics - such as above.

Taper and stepped diameter are not the same thing, although
tangentially related and asking for "how to calculate" jumps the
tracks entirely.

How about stripping out the extraneous details and simply describing
what your problem is?

73's
Richard Clark, KB7QHC

2575. Re: NEC2 - Correcting for element taper on a loaded element?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 09:13:49 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <zbGdnbXtMoVOVWvUnZ2dnUVZ_qSdnZ2d@posted.easystreetonline>
Source record: 16049

Richard Clark wrote:
> On Mon, 27 Apr 2009 14:20:05 -0700 (PDT), Scott M
> <mcclements@gmail.com> wrote:
>
>> I meant without the loads (inductors) in place.
>
> Hi Scott,
>
> Then that detail is not essential.
>
>> Regardless if they
>> are in the model or not, the model isn't being converted to a
>> constant diameter. -Scott
>
> This would surprise me if it did. Tapering involves the segments of
> one wire being converted into wires of diminishing length.
>
> 73's
> Richard Clark, KB7QHC

"Tapering" is used to mean two different things. One is segment length tapering, as Richard describes. It was essential in MININEC-based programs to get accurate results from wires connecting at an angle, and it's only occasionally useful with NEC based programs in other situations. EZNEC has an automated segment length tapering feature left over from its MININEC-based predecessor ELNEC. More detail can be found in the EZNEC manual index under "Segment Length Tapering". The demo version includes the full manual, and this feature.

The other meaning of "tapering", which is what the thread is about, is diameter tapering, exemplified by a Yagi element made from telescoping tubing. This tapering has a very significant effect on element length. NEC-2 produces a small error whenever wires of different diameter are connected, and this error is enough to seriously affect the pattern of a Yagi made with diameter-tapered elements. An element of a single diameter can be substituted which gives the same result as the diameter-tapered element, but the method isn't intuitively obvious. The length of the equivalent is different from the original, and the diameter isn't an average of the diameters. The method was developed by Dave Leeson W6QHS and described in his book "Physical Design of Yagi Antennas" (ARRL). EZNEC and some other NEC-2 based programs incorporate Leeson's method and automatically make the substitution when appropriate. The method assumes a sinusoidal current distribution, so EZNEC won't make the substitution if the element contains traps or loading coils, or for other reasons isn't close to natural resonance.

But EZNEC also has a method of showing the user whether the substitution is being made, what the substituted wire length and diameter are, and if it's not being made, the reason why. More information is in the EZNEC manual, indexed under "Stepped Diameter Correction".

It sounds like the OP's program normally does a similar substitution but doesn't tell the user the reason when it doesn't. The software developer should be able to explain the conditions under which the substitution is applied.

Roy Lewallen, W7EL

2576. Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 19:43:59 UTC
From: lagagnon <lagagnon@gmail.com>
Message-ID: <817062c5-0a05-4a05-9382-90a5fa2e54ca@x31g2000prc.googlegroups.com>
Source record: 16050

I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band yagi. This yagi has been used in a coastal environment and thus the aluminum is slightly pitted and most of the connecting hardware needs replacing.

I figure steel wool would work fine for the aluminum tubing, I know how to test the traps, but I am wondering whether to use stainless steel or galvanized hardware? Which would react least over time with the aluminum? Also, I remember many years ago there is an electrical joint compound stuff for using between the tubing sleeves - can anyone please give me some brand names of this stuff?

Any other ideas appreciated....

Larry VE7EA

2577. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 20:53:38 UTC
From: "Larry Gauthier (K8UT)" <MyCallsign@ARRL.NET>
Message-ID: <p1KJl.89858$9t6.1656@newsfe10.iad>
Source record: 16051

Larry,

I use "Ox-Gard", available from the local "Do-It Center" hardware store outlet. Preserves overlap joints on aluminum tubing and makes them easy to adjust and disassemble after years outdoors.

Works fine for radio waves, but does not conduct DC. Found this out the hard way in an application where I was passing RF alongside some DC signaling information. The RF got through just fine, the DC not so much.

-larry
K8UT
"lagagnon" <lagagnon@gmail.com> wrote in message
news:817062c5-0a05-4a05-9382-90a5fa2e54ca@x31g2000prc.googlegroups.com...
>I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
> yagi. This yagi has been used in a coastal environment and thus the
> aluminum is slightly pitted and most of the connecting hardware needs
> replacing.
>
> I figure steel wool would work fine for the aluminum tubing, I know
> how to test the traps, but I am wondering whether to use stainless
> steel or galvanized hardware? Which would react least over time with
> the aluminum? Also, I remember many years ago there is an electrical
> joint compound stuff for using between the tubing sleeves - can anyone
> please give me some brand names of this stuff?
>
> Any other ideas appreciated....
>
> Larry VE7EA

2578. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 21:18:02 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <9b6a811c-4f7a-4686-a503-87c58f901ca6@d19g2000prh.googlegroups.com>
Source record: 16052

On Apr 28, 3:43 pm, lagagnon <lagag...@gmail.com> wrote:
> I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
> yagi. This yagi has been used in a coastal environment and thus the
> aluminum is slightly pitted and most of the connecting hardware needs
> replacing.
>
> I figure steel wool would work fine for the aluminum tubing, I know
> how to test the traps, but I am wondering whether to use stainless
> steel or galvanized hardware? Which would react least over time with
> the aluminum? Also, I remember many years ago there is an electrical
> joint compound stuff for using between the tubing sleeves - can anyone
> please give me some brand names of this stuff?
>
> Any other ideas appreciated....
>
> Larry VE7EA

I would stay away from the steel wool. Bits of it will imbed in the Al
and rust.

Jimmie

2579. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 21:19:31 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gt7rt1$64g$2@news.jpl.nasa.gov>
Source record: 16053

lagagnon wrote:
> I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
> yagi. This yagi has been used in a coastal environment and thus the
> aluminum is slightly pitted and most of the connecting hardware needs
> replacing.
>
> I figure steel wool would work fine for the aluminum tubing,

Avoid steel wool. Inevitably, it will leave little iron/steel fibers
behind, which will rust/corrode/react with the aluminum.

Use synthetic scrubbies (3M ScotchBrite) instead.

I know
> how to test the traps, but I am wondering whether to use stainless
> steel or galvanized hardware? Which would react least over time with
> the aluminum? Also, I remember many years ago there is an electrical
> joint compound stuff for using between the tubing sleeves - can anyone
> please give me some brand names of this stuff?
>
> Any other ideas appreciated....
>
> Larry VE7EA

2580. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 22:25:45 UTC
From: Jon Teske <jdteske@verizon.net>
Message-ID: <dtvev41d90416oga4qncr88pgjo9arv3nf@4ax.com>
Source record: 16054

On Tue, 28 Apr 2009 12:43:59 -0700 (PDT), lagagnon
<lagagnon@gmail.com> wrote:

>I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
>yagi. This yagi has been used in a coastal environment and thus the
>aluminum is slightly pitted and most of the connecting hardware needs
>replacing.
>
>I figure steel wool would work fine for the aluminum tubing, I know
>how to test the traps, but I am wondering whether to use stainless
>steel or galvanized hardware? Which would react least over time with
>the aluminum? Also, I remember many years ago there is an electrical
>joint compound stuff for using between the tubing sleeves - can anyone
>please give me some brand names of this stuff?
>
>Any other ideas appreciated....
>
>Larry VE7EA

I just called Bencher/Butternut about my aluminun vertical and they
suggested NOT using steel wool for cleaning because the residue
of the steel wool rusts very easily. I know this is true from my boat
where we generally use bronze wool to avoid rust. The steel wool sheds
(and I know this from hard experience) as a bear to clean out of
stuff, such as the deck of my boat. The Butternut guy suggest that
rather than steel wool use either emery paper or a Scotchbright pad as
they do not leave residue. Butternut also has a conductive grease that
they provide with their antennas to keep the metal to metal joints
conductive. Steel wool residue can also cause bimetalic corrosion with
aluminum.

Most assuredly use stainless steel fitting and screws. Ordinary
screws/nuts will rust very rabidly. Any boat owner knows that
many so-called compression clamps, allegedly in stainless, do not have
stainless bolts to tighten them. Most of us take a magnet to the
boating store to ensure we got the right things. BTW a boating store
is generally a pretty good place to get stainless steel hardware. They
know that a boat owner will scream bloody murder and besmirch their
reputation if they sell anything but the top quality stuff. We ran one
boating store out of town for selling shoddy stuff.

I'm embarking on exactly the same rebuild on my Butternut vertical so
I just talked to the factory specialist on this very subject just last
week. My spare parts just arrived yesterday. I'm rebuilding because
after 25 years, the wind flexed the tube that mount the antenna, a

vertical, into the ground. I guess that is not too bad service for this antenna.

Jon Teske, W3JT
Maryland

2581. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 22:28:01 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BFC5621D2679nonenowhere@61.9.191.5>
Source record: 16055

JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote in news:9b6a811c-4f7a-4686-a503-87c58f901ca6@d19g2000prh.googlegroups.com:

...
>> I figure steel wool would work fine for the aluminum tubing, I know
>> how to test the traps, but I am wondering whether to use stainless

If you brush aluminium with a material, there is a tendency for the material to become embedded in the surface.

Stainless steel is widely used to brush aluminium clean before welding, and with minimum degradation. I would not use steel wool. Non metallic scrubbers may embed non-conductive material in the surface, frustrating low resistance connection between clamped surfaces.

I have found the little Dremel #530 stainless wheel brush handy for scratch cleaning the inside of mating tubes, although limited in reach. I haven't tried, but the flexible shaft adapter might give good reach into larger diameter tubes. For the outside, I just use a stainless scratch brush.

Owen

2582. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 22:45:38 UTC
From: dplatt@radagast.org
Message-ID: <ihdkc6-v21.ln1@radagast.org>
Source record: 16056

> I figure steel wool would work fine for the aluminum tubing,

I've read that it is *not* a good idea to use steel wool to clean up aluminum, especially if it's going to be exposed to the weather. There's a tendency for tiny bits of the steel to get caught in the aluminum... it'll rust.

I'd suggest using a 3M (or generic equivalent) green abrasive scrubbing pad. These pads are rough enough to remove oxidation from copper PC board material, so I imagine they'll shine up aluminum just as well, but they won't leave rustable material behind.

> I know
> how to test the traps, but I am wondering whether to use stainless
> steel or galvanized hardware?

I believe that you can get some amount of electrolysis if galvanized metal and aluminum are in contact, especially if the aluminum is not well-anodized or if there is electrolyte around (e.g. if your area is subject to salt spray). Some people in the boating trade claim "no problem", others state that you should never use zinc-galvanized and aluminum together.

Stainless-steel-and-aluminum seems to be the preferred combination.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will boycott any company which has the gall to send me such ads!

2583. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 23:09:58 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9BFC5D3E9F8CBnonenowhere@61.9.191.5>
Source record: 16057

Owen Duffy <none@no.where> wrote in
news:Xns9BFC5621D2679nonenowhere@61.9.191.5:

> JIMMIE <JIMMIEDEE123@YAHOO.COM> wrote in news:9b6a811c-4f7a-4686-a503-
> 87c58f901ca6@d19g2000prh.googlegroups.com:
>
> ...
>>> I figure steel wool would work fine for the aluminum tubing, I know
>>> how to test the traps, but I am wondering whether to use stainless
>
...
Apologies, I mis-quoted there, the text was by lagagnon
<lagagnon@gmail.com> .

Owen

2584. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 23:41:21 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49f79418$0$18863$8046368a@newsreader.iphouse.net>
Source record: 16058

Dave Platt wrote:
>> I figure steel wool would work fine for the aluminum tubing,
>
> I've read that it is *not* a good idea to use steel wool to clean up
> aluminum, especially if it's going to be exposed to the weather.
> There's a tendency for tiny bits of the steel to get caught in the
> aluminum... it'll rust.
>
> I'd suggest using a 3M (or generic equivalent) green abrasive
> scrubbing pad. These pads are rough enough to remove oxidation from
> copper PC board material, so I imagine they'll shine up aluminum just
> as well, but they won't leave rustable material behind.
>

3M pads and Bon Ami cleaner works well.

And clean aluminum has better gain. One of my 432 antennas tested at
Central States gained .4dB between very dirty oxidized elements and
cleaned elements.

tom
K0TAR

2585. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-28 23:52:58 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gt84sokkg1@news.service.uci.edu>
Source record: 16059

Cecil Moore wrote:

> Any person with a modicum of mathematics skill can
> look at the following equation and know that there
> is no phase shift relative to x in 1/4WL of wire or
> coil.

To the extent that 'a modicum of mathematics skill' is
like 'a little knowledge', I suppose anything is possible.

> Itot = Imax*cos(kx)*cos(wt)

Noting the linear variables and constants in there, and the absence of
anything that would change abruptly at certain particular values of x,
what would the expression for a standing wave on a shortened coil loaded
90 degree monopole have to look like?

ac6xg

"To convert from units of current to units of mass simply multiply the
superposition trig identity by mass (and ignore the factor of 2): Mtot =
Mmax*cos(kx)*cos(wt). Try it with any units you like!"

2586. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 00:39:56 UTC
From: Bruce <xxx@yyy.zzz>
Message-ID: <Xns9BFBD2CED3344xxxyyyzzz@216.77.188.18>
Source record: 16060

dplatt@radagast.org (Dave Platt) wrote in news:ihdkc6-v21.ln1@radagast.org:

>> I figure steel wool would work fine for the aluminum tubing,
>
> I've read that it is *not* a good idea to use steel wool to clean up
> aluminum, especially if it's going to be exposed to the weather.
> There's a tendency for tiny bits of the steel to get caught in the
> aluminum... it'll rust.
>
> I'd suggest using a 3M (or generic equivalent) green abrasive
> scrubbing pad. These pads are rough enough to remove oxidation from
> copper PC board material, so I imagine they'll shine up aluminum just
> as well, but they won't leave rustable material behind.

Neverdull is far better to use.

http://www.nevrdull.com/

2587. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 02:39:57 UTC
From: Topaz305rk <navajomt@nemont.net>
Message-ID: <AuOdnaL76uBjIGrUnZ2dnUVZ_vadnZ2d@vnet-inc.com>
Source record: 16062

"lagagnon" <lagagnon@gmail.com> wrote in message
news:817062c5-0a05-4a05-9382-90a5fa2e54ca@x31g2000prc.googlegroups.com...
>I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
> yagi. This yagi has been used in a coastal environment and thus the
> aluminum is slightly pitted and most of the connecting hardware needs
> replacing.
>
> I figure steel wool would work fine for the aluminum tubing, I know
> how to test the traps, but I am wondering whether to use stainless
> steel or galvanized hardware? Which would react least over time with
> the aluminum? Also, I remember many years ago there is an electrical
> joint compound stuff for using between the tubing sleeves - can anyone
> please give me some brand names of this stuff?
>
> Any other ideas appreciated....
>
> Larry VE7EA

When I refurbished my TH-66DX about 10 years ago I used the green
"synthetic" steel wool or scotchbrite material.
Worked great and no residue left over.
Between the elements when put back together I used "never seize". Worked
well and conducts RF and DC.
After ten years I have not had any changes in the performance or SWR on the
antenna.

Sam - K7SAM

2588. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 03:23:02 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BFBC52DF2294greederxprtnet@194.177.98.144>
Source record: 16061

Jeff Liebermann <jeffl@cruzio.com> wrote in
news:3q6av4dc30fc9ikjk9u96mrn7m4vdekhgi@4ax.com:

> On Sun, 26 Apr 2009 16:54:12 -0700, Jeff Liebermann <jeffl@cruzio.com>
> wrote:
>
>>>What I have
>>>now is two bowties spaced about 7 inches apart on a wood dowel.
>>>A peanut butter jar with rocks in it makes up the base.
>
> Like this?
> <http://www.hdtvprimer.com/ANTENNAS/DoubleBow.html>
>

Sort of. At least that's the right configuration.
What I did was to go out and buy a pair of bowties
from Radio Shack. Then I got a dowel at Ace Hardware.
I clipped the bowties 7" apart (measured on center).
to the dowel. The bowties came with about 12" or so
of twin-lead attached. I ran these to a balun and
then through a short length of coax to the DTV converter.
I don't have a reflector, but one could be used to
improve directionality.

2589. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 03:50:34 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BFBC9D882F76greederxprtnet@194.177.98.144>
Source record: 16063

Jeff Liebermann <jeffl@cruzio.com> wrote in
news:05r9v4dtr9ca520ig6d3btcs90if124a3p@4ax.com:

> On 25 Apr 2009 06:33:45 +0100, Gordon <gonzo@alltomyself.com> wrote:
>
>>This seems to be the only news group devoted to the topic of antennas.
>>(and the origins of the universe). So maybe you guys can help me
>>with this.
>
> Cosmology is often easier to understand than the antenna designs.
>
>>I have been experimenting with fabricating a decent
>>indoor DTV antenna.
>
> Please define "decent". You know, the numbers.

Decent is subjective. When I first hooked up the
converter box I used the rabbit ears. They didn't
work worth a darn. Signal strength (according to
the OSD indicator) was 40 at best. THe picture
and sound were constantly breaking up. I then hooked
up a bowtie and got better reception, but only barely.
That's when i got the idea for the double bowtie. Now
my worst signal strength is 40 and my best is 75.
Still could use some improvement, but picture quality
is good.

> How big? (max allowed length, width, height)

That's the thing. I don't have room for a ginormus
antenna.

> How much bandwidth (VHF, UHF, or both?)

Right now, UHF 27 to 48.
After the change over, add VHF 8, 10, and 12.

> Minimum (average) gain?
> Mounting limitations?

Prefer indoor not outdoor. A high ceiling makes that
mounting arangement unusable. Although I could hang
a flat antenna on the wall around the corner from the
TV.

> Omni or directional? Rotator?

All the stations are located within a 7 degree cluster, due
east from my location. Directional is good. No rotor needed.

>
> I'm also partial to NEC2 models of creative designs. They often show
> problems that are not obvious until after the antenna is built. If
> you're going to design your own, spend the time building a model.
>
>>I have tried several things.
>
> You seem to have done your homework. Also see:
> <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> Some are indoor antennas, which should give you a clue as to what to
> expect.
>
>>What I have
>>now is two bowties spaced about 7 inches apart on a wood dowel.
>>A peanut butter jar with rocks in it makes up the base.
>
> 2 element yagi like design?
>>
>>It seems to give pretty good performance. It could be better.
>>
>>But I am wondering about a few things.
>>
>>1) Right now all the digital transmissions are in the UHF band.
>> but in 6 weeks, three stations will move back to their VHF
>> assignments in the VHF high band.
>> How well can I expect my antenna to work in that frequency band?
>
> Dunno. I haven't seen any dimensions. Plug the current design into
> an NEC model and see what comes out at VHF frequencies. My guess is
> that it will be worse than hideous. You would do better with
> adjustable rabbit ears.
>
>>2) I have not trimmed or dressed the twin lead from the bowties.
>> I understand that twin-lead can act as antennas. So what
>>is the best way to manage the twinlead? Cut it back? I noticed
>>that when i laid the leads together, in an attempt to make a
>>neat assembly, I got signal cancelation.
>
> Lose the twin lead. The problem with balance line is that any
> mechanical imbalance (i.e. proximity to walls, objects, people, etc)
> will unbalance the line, causing some radiation. Such radiation shows
> up as loss, something you can barely tolerate with such a minimal
> antenna. If your design is setup for a 300 ohm match, install a balun
> and run 75 ohm RG-6/u coax instead.
>
>>3) Any suggestions to improve this design?
>
> Improve how? More gain? More bandwidth? Smaller? Numbers please.

>
>>4) Any suggestions for alternitive DIY designs?
>
> Yes, but you may find them rather unconventional.
>
> I once built a log periodic antenna on a sheet of plywood, using #14
> AWG house wire and two parallel wires for the transmission line.
> Elements were arranged on both sides of the plywood and secured with a
> staple gun. This was for a ladyfriend, who was stuck with severe
> limitations on outside antenna installations. I hung it from the
> ceiling, which was the only place suitable for the monstrosity. 4-6dBi
> gain from 60 to 800MHz (no channel 2). Where were a few ghosts, but
> it worked much better than the rabbit ears and UHF loop it replaced.
> However, it only lasted about a month. The landlord found out and
> demanded its removal while muttering something about attracting flying
> saucers and alien visitors. Oh well.
>
> Another TV antenna I built took advantage of the chicken wire buried
> under the stucco outside of the house. The chicken wire acted as the
> antenna reflector, which was conveniently arranged in the right
> direction. The driven elements were 4ea phased bow-tie dipoles,
> hidden behind a decorative wood grating. It didn't work as well as I
> predicted, but good enough to get decent OTA TV reception.
>
> If you have a suitable window facing the right direction, you can do
> something with aluminum foil tape. I use aluminum duct tape cut down
> to size for this purpose. For electrical connections, copper stained
> glass tape soldered to the coax cable. Any antenna with horizontal
> polarization will work. You won't get much gain, but the outside
> window location will somewhat compensate for the lack of gain by
> offering a less cluttered line of sight to the TV xmitter.
>
> Anyway, use your imagination, but also run the numbers and do a model.
>

2590. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 03:53:00 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BFBCA42B42Agreederxprtnet@194.177.98.144>
Source record: 16064

Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote in
news:mzG5fTGeDB9JFwBw@g3ohx.demon.co.uk:

> I would start with sticking a screwdriver in the TV antenna socket.
>
> While a properly designed and constructed DTV antenna, mounted in the
> right place, will undoubtedly work well, some of the homebrew designs
> you find on the internet are probably even less efficient than a
> screwdriver.
>

You mean, like the beer can antenna?? Sorry, I don't have
a link.

2591. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 03:59:54 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BFBCB6DF9D35greederxprtnet@194.177.98.144>
Source record: 16065

Cecil Moore <nospam@w5dxp.com> wrote in news:R0QIl.15486$pr6.5577
@flpi149.ffdc.sbc.com:

> Gordon wrote:
>> Unfortunatly, I can't mount an outdoor antenna. I rent,
>> and the landlord won't allow it.
>
> Isn't there a federal law allowing TV antennas?
> Or did you sign a personal contract agreeing
> not to install a TV antenna?

There may well be. But my landlord has shown an
active disregard for any such landlord/tennent laws
and there may also be neighborhood CC&R's.

I did find plans on the internet for a huge dual
Hoverman design. A terrible overkill for my
purposes. But, I could lean such a thing against
a wall outside of where the TV is located.

2592. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 06:38:40 UTC
From: noname@nospam.org
Message-ID: <pCSJl.79764$LA7.25265@newsfe20.iad>
Source record: 16066

"lagagnon" <lagagnon@gmail.com> wrote in message news:817062c5-0a05-4a05-9382-90a5fa2e54ca@x31g2000prc.googlegroups.com...

> I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
> yagi. This yagi has been used in a coastal environment and thus
> the aluminum is slightly pitted and most of the connecting
> hardware needs replacing.
>
> I figure steel wool would work fine for the aluminum tubing, I
> know how to test the traps, but I am wondering whether to use
> stainless steel or galvanized hardware? Which would react least
> over time with the aluminum? Also, I remember many years ago there
> is an electrical joint compound stuff for using between the tubing
> sleeves - can anyone please give me some brand names of this
> stuff?
>
> Any other ideas appreciated....
>
> Larry VE7EA

Boy, the partial truths have been flying hot and heavy here. Allow me to try to explain what is right and what is wrong...

You do _NOT_ want to use steel wool. Aluminum is anodic with respect to steel. When you use steel wool, you imbed steel fibers in the aluminum as many have noted. But what happens next is where most posters are wrong. The aluminum around the steel fiber corrodes protecting the steel from rusting. Thus your problem becomes worse. Eventually the aluminum corrodes enough that it no longer makes good electrical contact to the steel and the steel will rust or else fall out of the pit in the aluminum. You are left with highly pitted aluminum.

I would suggest emery cloth, sandpaper, or a Scotchbright pad to polish the aluminum. I would avoid stainless steel brushes too as most grades of stainless are even more cathodic than steel with respect the aluminum. Likewise avoid brass or copper brushes too. For large areas, sand blasting works well if you use a fine sand and not too much pressure.

As to hardware, I suggest hot-dipped galvanized bolts and nuts. Zinc is slightly more anodic than aluminum, so neither material will corrode much when in contact with each other. Hardware with a heavy cadmium plating is also suitable, but due to the toxicity of cadmium it is a little harder to find. Zinc-plated hardware offers minimal

protection because the zinc coating is so thin. If the hardware is used in an application where minimal strength is needed, consider aluminum hardware itself.

There are many joint compounds on the market for joining aluminum to aluminum. Noalox and Penetrox are two common brands. These compounds are typically a petroleum grease containing zinc particles. These particles are usually produced by spraying molten zinc and air through a nozzle. This produces small, irregular particles whose sharp edges pierce the aluminum oxide surface film when the aluminum pieces are tightly clamped together. This produces a good electrical contact, and the zinc is very compatible with the aluminum from a corrosion standpoint.

Whatever you do, avoid any contact of copper with the aluminum. Where the transmission line connects, be sure and heavily coat any copper solder lugs with solder. Try to keep a hot-dipped galvanized washer between the lug and the aluminum.

Send me an email and I can send you some good articles on corrosion that you might find interesting and informative. My experience comes from many years working in the chemical industry. Even so, I found the plant metallurgist to be a vital resource in material selection for the instrumentation I designed.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

2593. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 12:09:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <lsXJl.25610$c45.492@nlpi065.nbdc.sbc.com>
Source record: 16067

Jim Kelley wrote:
> Cecil Moore wrote:
>> Itot = Imax*cos(kx)*cos(wt)
>
> Noting the linear variables and constants in there, and the absence of
> anything that would change abruptly at certain particular values of x,
> what would the expression for a standing wave on a shortened coil loaded
> 90 degree monopole have to look like?

Ideally, it would be of the form:

For x = 0 to top of coil,
Itot = k1*cos(k2*x)cos(wt)

For x = bottom of stinger to top of stinger,
Itot = k3*cos(k4*x)*cos(wt)

where k1-k4 are constants

Note: The above is a conceptual simplification as it
ignores the current "bulge" in a real-world loading
coil.

Note that at the coil/stinger junction:

Itot = k1*cos(k2*x)*cos(wt) = k3*cos(k4*x)*cos(wt)

- as required by the laws of physics. Remember, it is
always implied that we are considering only the real
part of the phasor. Thus a current phasor can undergo
an abrupt amplitude and phase shift without changing
the real value.

10*cos(0) = 14.14*cos(45) = 10

The above phasor has abruptly rotated its phase by
45 degrees and increased its amplitude by 41% with
no violation of the laws of physics.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2594. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 12:44:45 UTC
From: dave <dave@dave.dave>
Message-ID: <x8-dnTgKrccg1mXUnZ2dnUVZ_rudnZ2d@earthlink.com>
Source record: 16068

Bruce wrote:
> dplatt@radagast.org (Dave Platt) wrote in news:ihdkc6-v21.ln1@radagast.org:
>
>>> I figure steel wool would work fine for the aluminum tubing,
>> I've read that it is *not* a good idea to use steel wool to clean up
>> aluminum, especially if it's going to be exposed to the weather.
>> There's a tendency for tiny bits of the steel to get caught in the
>> aluminum... it'll rust.
>>
>> I'd suggest using a 3M (or generic equivalent) green abrasive
>> scrubbing pad. These pads are rough enough to remove oxidation from
>> copper PC board material, so I imagine they'll shine up aluminum just
>> as well, but they won't leave rustable material behind.
>
> Neverdull is far better to use.
>
> http://www.nevrdull.com/
>
>

Isn't the oxide good? Doesn't it protect the metal?

2595. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 12:54:08 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <5109437c-d616-4c55-9d49-2863ed341054@x31g2000prc.googlegroups.com>
Source record: 16089

On Apr 29, 2:38 am, <non...@nospam.org> wrote:
> "lagagnon" <lagag...@gmail.com> wrote in message news:817062c5-
>
> 0a05-4a05-9382-90a5fa2e5...@x31g2000prc.googlegroups.com...
>
>
>
>
>
> > I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
> > yagi. This yagi has been used in a coastal environment and thus
> > the aluminum is slightly pitted and most of the connecting
> > hardware needs replacing.
>
> > I figure steel wool would work fine for the aluminum tubing, I
> > know how to test the traps, but I am wondering whether to use
> > stainless steel or galvanized hardware? Which would react least
> > over time with the aluminum? Also, I remember many years ago there
> > is an electrical joint compound stuff for using between the tubing
> > sleeves - can anyone please give me some brand names of this
> > stuff?
>
> > Any other ideas appreciated....
>
> > Larry VE7EA
>
> Boy, the partial truths have been flying hot and heavy here. Allow
> me to try to explain what is right and what is wrong...
>
> You do _NOT_ want to use steel wool. Aluminum is anodic with
> respect to steel. When you use steel wool, you imbed steel fibers
> in the aluminum as many have noted. But what happens next is where
> most posters are wrong. The aluminum around the steel fiber
> corrodes protecting the steel from rusting. Thus your problem
> becomes worse. Eventually the aluminum corrodes enough that it no
> longer makes good electrical contact to the steel and the steel will
> rust – or else fall out of the pit in the aluminum. You are left with
> highly pitted aluminum.
>
> I would suggest emery cloth, sandpaper, or a Scotchbright pad to
> polish the aluminum. I would avoid stainless steel brushes too as
> most grades of stainless are even more cathodic than steel with
> respect the aluminum. Likewise avoid brass or copper brushes too.
> For large areas, sand blasting works well if you use a fine sand and

> not too much pressure.
>
> As to hardware, I suggest hot-dipped galvanized bolts and nuts.
> Zinc is slightly more anodic than aluminum, so neither material will
> corrode much when in contact with each other. Hardware with a heavy
> cadmium plating is also suitable, but due to the toxicity of cadmium
> it is a little harder to find. Zinc-plated hardware offers minimal
> protection because the zinc coating is so thin. If the hardware is
> used in an application where minimal strength is needed, consider
> aluminum hardware itself.
>
> There are many joint compounds on the market for joining aluminum to
> aluminum. Noalox and Penetrox are two common brands. These
> compounds are typically a petroleum grease containing zinc particles.
> These particles are usually produced by spraying molten zinc and air
> through a nozzle. This produces small, irregular particles whose sharp
> edges pierce the aluminum oxide surface film when the aluminum
> pieces are tightly clamped together. This produces a good
> electrical contact, and the zinc is very compatible with the
> aluminum from a corrosion standpoint.
>
> Whatever you do, avoid any contact of copper with the aluminum.
> Where the transmission line connects, be sure and heavily coat any
> copper solder lugs with solder. Try to keep a hot-dipped galvanized
> washer between the lug and the aluminum.
>
> Send me an email and I can send you some good articles on corrosion
> that you might find interesting and informative. My experience
> comes from many years working in the chemical industry. Even so, I
> found the plant metallurgist to be a vital resource in material
> selection for the instrumentation I designed.
>
> --
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnit...@charter.net- Hide quoted text -
>
> - Show quoted text -

Ive used anti-sieze compounds, they also are basicaly zinc and grease
and often more economical than the Noalox and Penatrox brands.
I have two of the mentioned antennas,one was given to me and the other
I bought at a hamfest. Apparently the weak link in these is the traps,
now I have two antennas that I cant get to work. The next time I move
which will probably be soon I may have a place where I can at least
use them for parts.

Jimmie

2596. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 14:37:21 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gt9onl$ng7i$1@tr22n12.aset.psu.edu>
Source record: 16069

Jim Lux wrote:
> lagagnon wrote:
>> I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
>> yagi. This yagi has been used in a coastal environment and thus the
>> aluminum is slightly pitted and most of the connecting hardware needs
>> replacing.
>>
>> I figure steel wool would work fine for the aluminum tubing,
>
> Avoid steel wool. Inevitably, it will leave little iron/steel fibers
> behind, which will rust/corrode/react with the aluminum.

Hi Jim,

I keep hearing about steel wool rusting in/corroding Aluminum, but does anyone have actual evidence? I've been looking on the web, and although apparently using steel wool on AL will cause warts, bad breath, and the downfall of the free world, all I've found is admonitions not to use it. Maybe I'll try an experiment - I have some old antenna tubing.

There's just something a little strange about this. For the steel particles to corrode the AL, they would have to detach, (easy enough) settle into pores in the Aluminum at sizes small enough to do that, (hmmm, those are pretty tiny steel particles) or have some odd property of sticking to the AL despite cleaning. Then I guess it's a race between rust and galvanic corrosion?

> Use synthetic scrubbies (3M ScotchBrite) instead.

Bronze or stainless steel wool might be a good material to use. Boaters use it on aluminum.

- 73 de Mike N3LI -

2597. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 14:47:29 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <f9a8a722-8bc7-4e86-9c94-67f8a8bb1d57@f1g2000prb.googlegroups.com>
Source record: 16085

On Apr 29, 10:37 am, Michael Coslo <m...@psu.edu> wrote:
> Jim Lux wrote:
> > lagagnon wrote:
> >> I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
> >> yagi. This yagi has been used in a coastal environment and thus the
> >> aluminum is slightly pitted and most of the connecting hardware needs
> >> replacing.
>
> >> I figure steel wool would work fine for the aluminum tubing,
>
> > Avoid steel wool. Inevitably, it will leave little iron/steel fibers
> > behind, which will rust/corrode/react with the aluminum.
>
>   Hi Jim,
>
> I keep hearing about steel wool rusting in/corroding Aluminum, but does
> anyone have actual evidence? I've been looking on the web, and although
> apparently using steel wool on AL will cause warts, bad breath, and the
> downfall of the free world, all I've found is admonitions not to use it.
> Maybe I'll try an experiment - I have some old antenna tubing.
>
> There's just something a little strange about this. For the steel
> particles to corrode the AL, they would have to detach, (easy enough)
> settle into pores in the Aluminum at sizes small enough to do that,
> (hmmm, those are pretty tiny steel particles) or have some odd property
> of sticking to the AL despite cleaning. Then I guess it's a race between
> rust and galvanic corrosion?
>
> > Use synthetic scrubbies (3M ScotchBrite) instead.
>
> Bronze or stainless steel wool might be a good material to use. Boaters
> use it on aluminum.
>
>   - 73 de Mike N3LI -

When you scour with the steel wool it will cut into the soft Al and
break off. You wont know about it until it starts to rust. Some
aluminum alloys dont seem to have as much of a problem with this but
others do. Ive had it happen to me, warned someone who still tried it
and had no problem.

Jimmie

2598. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 16:23:08 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gt9utb$5uu$1@news.jpl.nasa.gov>
Source record: 16073

Gordon wrote:
> Cecil Moore <nospam@w5dxp.com> wrote in news:R0QIl.15486$pr6.5577
> @flpi149.ffdc.sbc.com:
>
>> Gordon wrote:
>>> Unfortunatly, I can't mount an outdoor antenna. I rent,
>>> and the landlord won't allow it.
>> Isn't there a federal law allowing TV antennas?
>> Or did you sign a personal contract agreeing
>> not to install a TV antenna?
>
> There may well be. But my landlord has shown an
> active disregard for any such landlord/tennent laws
> and there may also be neighborhood CC&R's.

Your landlord may show a disregard, but he can't actually do anything. As in, he can't evict you (what would be the grounds? whatever is in your lease/rental contract is superseded by federal law in this case) (granted, he can try to evict you, and you'd potentially have to go to court to fight it, but he can't get the sheriff out to remove you, and if he does a "self-help" eviction, he's committing a felony: breaking and entering, burglary, etc.)

CC&Rs are even more toothless here. There's a presumption that what you want to do is legal, and the HOA would have to prove otherwise, and in the mean time, you get to keep your antenna. Read the FCC page.

>
> I did find plans on the internet for a huge dual
> Hoverman design. A terrible overkill for my
> purposes. But, I could lean such a thing against
> a wall outside of where the TV is located.

2599. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 16:26:12 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gt9v33$5uu$2@news.jpl.nasa.gov>
Source record: 16072

Michael Coslo wrote:
> Jim Lux wrote:
>> lagagnon wrote:
>>> I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
>>> yagi. This yagi has been used in a coastal environment and thus the
>>> aluminum is slightly pitted and most of the connecting hardware needs
>>> replacing.
>>>
>>> I figure steel wool would work fine for the aluminum tubing,
>>
>> Avoid steel wool. Inevitably, it will leave little iron/steel fibers
>> behind, which will rust/corrode/react with the aluminum.
>
> Hi Jim,
>
> I keep hearing about steel wool rusting in/corroding Aluminum, but does
> anyone have actual evidence? I've been looking on the web, and although
> apparently using steel wool on AL will cause warts, bad breath, and the
> downfall of the free world, all I've found is admonitions not to use it.
> Maybe I'll try an experiment - I have some old antenna tubing.

Go for it.
>
> There's just something a little strange about this. For the steel
> particles to corrode the AL, they would have to detach, (easy enough)
> settle into pores in the Aluminum at sizes small enough to do that,
> (hmmm, those are pretty tiny steel particles) or have some odd property
> of sticking to the AL despite cleaning.

steel is much harder than aluminum, so the little fibers jam into the
relatively soft aluminum and make their own holes.

Then I guess it's a race between
> rust and galvanic corrosion?

Yep..

>
>
>> Use synthetic scrubbies (3M ScotchBrite) instead.
>
> Bronze or stainless steel wool might be a good material to use. Boaters
> use it on aluminum.
>
> - 73 de Mike N3LI -

The other thing to keep in mind with this sort of thing is the expected life. Hey, if it's only going to be up for a year or two or three, it probably doesn't matter. If you're going to expect your grandchildren's children to use it unchanged, a bit more care might be required.

2600. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 16:43:15 UTC
From: Jim Kelley <jimkelleyamps@gmail.com>
Message-ID: <1ad7852c-9ec2-4b6d-9921-083be083f012@p6g2000pre.googlegroups.com>
Source record: 16078

On Apr 29, 4:09 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Jim Kelley wrote:
> > Cecil Moore wrote:
> >> Itot = Imax*cos(kx)*cos(wt)
>
> > Noting the linear variables and constants in there, and the absence of
> > anything that would change abruptly at certain particular values of x,
> > what would the expression for a standing wave on a shortened coil loaded
> > 90 degree monopole have to look like?
>
> Ideally, it would be of the form:
>
> For x = 0 to top of coil,
> Itot = k1*cos(k2*x)cos(wt)
>
> For x = bottom of stinger to top of stinger,
> Itot = k3*cos(k4*x)*cos(wt)
>
> where k1-k4 are constants
>
> Note: The above is a conceptual simplification as it
> ignores the current "bulge" in a real-world loading
> coil.
>
> Note that at the coil/stinger junction:
>
> Itot = k1*cos(k2*x)*cos(wt) = k3*cos(k4*x)*cos(wt)
>
> - as required by the laws of physics. Remember, it is
> always implied that we are considering only the real
> part of the phasor. Thus a current phasor can undergo
> an abrupt amplitude and phase shift without changing
> the real value.
>
> 10*cos(0) = 14.14*cos(45) = 10
>
> The above phasor has abruptly rotated its phase by
> 45 degrees and increased its amplitude by 41% with
> no violation of the laws of physics.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil -

Mathematics is NOT a toy.

:-)

ac6xg

2601. FS Yaesu G-400C Rotor and Controller

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 16:45:22 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <WA%JI.15735$pr6.6847@flpi149.ffdc.sbc.com>
Source record: 16070

FS: Yaesu G-400RC(like G-450A except no special plugs required for cable hookup). It comes with a copy of the manual. The rotator and controller work well and are in very good shape cosmetically. Cable hooks directly to rotor and controller/no plugs required. This rotor and controller have not been used much. I can send pictures upon request. Price is $165 plus shipping. Thanks, Charlie Hugg, K5MBX

2602. FS Tailtwister Lower Mast Bracket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 16:59:49 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <tO%Jl.15739$pr6.15667@flpi149.ffdc.sbc.com>
Source record: 16071

FS: Hy-Gain Tailtwister lower mast mounting bracket. Very nice shape. This is the big heavy duty one for big antennas. All clamps and bolts. Price $45 plus shipping. These sell for $100 new. Thanks, Charlie Hugg, K5MBX

2603. OT: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 18:29:54 UTC
From: Chris W <1qazse4@cox.net>
Message-ID: <D01Kl.64230$FR3.47263@newsfe04.iad>
Source record: 16074

Sorry for the of topic post but I don't know where to ask and it is my experience that people who build their own antennas can be rather resourceful.

I'm not sure of the correct terminology to use but I have been trying to find some "corrugated" metal tubing with threaded attachments on the ends. Kind of like item 50035A661 from McMaster.com web site. The problem with the one on McMaster web site is they are larger than I want and I am hoping to find something with a more standard machine screw thread too. Thanks for the help.

--
Chris W
KE5GIX

"Protect your digital freedom and privacy, eliminate DRM,
learn more at http://www.defectivebydesign.org/what_is_drm"

Ham Radio Repeater Database.
http://hrrdb.com

2604. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 18:36:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <09a3ef39-15a8-4c39-ac85-364985f9505f@a5g2000pre.googlegroups.com>
Source record: 16076

On Apr 26, 5:10 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 11, 3:58 am, Helmut Wabnig <hwabnig@ .- --- -. dotat> wrote:
>
>
>
> > On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>
> > <ArthurUn...@gmail.com> wrote:
> > >I made a helical end fed antenna that is inside a cone shaped
> > >reflector
> > >The reflector is made from 1/2" mesh steel with an aluminum foil liner
> > >and connected to the braid of the feed coax. No baluns are used, just
> > >direct connections.
> > > I was surprised to hear signals from the rear!
> > > I thought that a dish reflector prevented such signals getting to the
> > >receiver. So what can be wrong with the reflector or can signals get
> > >reflected back from the frontal area? Antenna is at a 40 foot height
> > >Any ideas as to what the fault could be?
> > >Regards
> > >Art
> > >I have no experience with dishes thus the question Note, the helical
> > >antenna does not protrude beyond the dish envelope.
> > >Art
>
> > How do you know?
> > The "rear" signals may come from the front side actually, having
> > been reflected by your neighbours house, or distant mountains,
> > or anything in between.
>
> > w.
>
> Helmut
> I do not know if the rear signals were as you suspected.,
> It is extremely windy here in the midwest for the last few days
> so I took off the new dish of it's ground stand and placed the dish in
> a corner outside the house with a TOA that I assume is about 10-15
> degrees. Again I got rear signals
> but I noticed the coverage was very narrow and maybe more than one.
> So next two weeks or so I will repeat the test but also play around
> with the elevation
> to see if there are other observables to determine if you are correct.
> I am playing with circular polarisation which is a new experience for
> me and I believe that is capable of picking up reflections that one
> does not normally see with planar designs

> Best regards
> Art

Helmut. Re original thread on dish

I found out what the problem was! The dish itself was in the antenna circuit thus
the dish was part of the antenna and receiving omni.ie chassis and ground was the same connection I have discarded the dish experiment and have gone back to the original design roots.
I can hold it up on one hand stretched out without problems and not only is it light but also small. Have placed a small cctv rotator and tipper on a table outside and am now setting up the controls. I suppose I will have to add a decoder to the motors at a later date so I can determine positions to follow the band conditions as they change I do not have a direction indicator so I will wait for a warm day where I can operate it and seethe position at the same time. The tipping action will give me control of the skip distance so that should prove to be very interesting. Anyway, glad that I now have direction ability back. Tks for your interest.
Regards
Art

2605. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 19:59:19 UTC
From: Jim Kelley <jimkelleyamps@gmail.com>
Message-ID: <803a2cf5-3160-4951-8bb0-66fbad573d8d@d19g2000prh.googlegroups.com>
Source record: 16077

On Apr 29, 5:09 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Jim Kelley wrote:
> > Cecil Moore wrote:
> >> Itot = Imax*cos(kx)*cos(wt)
>
> > Noting the linear variables and constants in there, and the absence of
> > anything that would change abruptly at certain particular values of x,
> > what would the expression for a standing wave on a shortened coil loaded
> > 90 degree monopole have to look like?
>
> Ideally, it would be of the form:
>
> For x = 0 to top of coil,
> Itot = k1*cos(k2*x)cos(wt)
>
> For x = bottom of stinger to top of stinger,
> Itot = k3*cos(k4*x)*cos(wt)
>
> where k1-k4 are constants
>
> Note: The above is a conceptual simplification as it
> ignores the current "bulge" in a real-world loading
> coil.

It ingores almost everything about the antenna.

> Note that at the coil/stinger junction:
>
> Itot = k1*cos(k2*x)*cos(wt) = k3*cos(k4*x)*cos(wt)

Uh, what units did you say your constants k1-k4 had again?

> - as required by the laws of physics.

Is that supposed to automatically add credibility to any remark which
preceeds it? Thusly, the nano-particles emitted by the framistat at
an impedance discontinuity carry only re-reflected energy - as
required by the laws of physics. It does sound impressive.

> 10*cos(0) = 14.14*cos(45) = 10
>
> The above phasor has abruptly rotated its phase by
> 45 degrees and increased its amplitude by 41% with
> no violation of the laws of physics.

Cecil -

Mathematics is NOT a toy.

:-)

ac6xg

2606. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 21:59:13 UTC
From: Bruce <xxx@yyy.zzz>
Message-ID: <Xns9BFCB786D849Cxxxyyyzzz@216.77.188.18>
Source record: 16075

dave <dave@dave.dave> wrote in
news:x8-dnTgKrccg1mXUnZ2dnUVZ_rudnZ2d@earthlink.com:

> Bruce wrote:
>> dplatt@radagast.org (Dave Platt) wrote in
>> news:ihdkc6-v21.ln1@radagast.org:
>>
>>>> I figure steel wool would work fine for the aluminum tubing,
>>> I've read that it is *not* a good idea to use steel wool to clean up
>>> aluminum, especially if it's going to be exposed to the weather.
>>> There's a tendency for tiny bits of the steel to get caught in the
>>> aluminum... it'll rust.
>>>
>>> I'd suggest using a 3M (or generic equivalent) green abrasive
>>> scrubbing pad. These pads are rough enough to remove oxidation from
>>> copper PC board material, so I imagine they'll shine up aluminum
>>> just as well, but they won't leave rustable material behind.
>>
>> Neverdull is far better to use.
>>
>> http://www.nevrdull.com/
>>
>>
>
> Isn't the oxide good? Doesn't it protect the metal?
>

Yes, but it is non-conductive.

2607. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 23:10:03 UTC
From: Dave <noone@nowhere.com>
Message-ID: <f75Kl.3555$b11.3243@nwrddc02.gnilink.net>
Source record: 16079

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:09a3ef39-15a8-4c39-ac85-364985f9505f@a5g2000pre.googlegroups.com...
>I found out what the problem was! The dish itself was in the antenna
>circuit thus the dish was part of the antenna and receiving omni.

DOH!

>I have discarded the dish experiment

AWWW, i would have loved to have a rotatable dish for 160m!

2608. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 23:13:02 UTC
From: Dave <noone@nowhere.com>
Message-ID: <2a5Kl.3556$b11.205@nwrddc02.gnilink.net>
Source record: 16080

"Jim Kelley" <jimkelleyamps@gmail.com> wrote in message
news:803a2cf5-3160-4951-8bb0-66fbad573d8d@d19g2000prh.googlegroups.com...
>Is that supposed to automatically add credibility to any remark which
>preceeds it? Thusly, the nano-particles emitted by the framistat at
>an impedance discontinuity carry only re-reflected energy - as
>required by the laws of physics. It does sound impressive.

It sounds like something art would say!

2609. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 23:32:27 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <hs5Kl.31246$ZP4.21138@nlpi067.nbdc.sbc.com>
Source record: 16081

Jim Kelley wrote:
> Mathematics is NOT a toy.

Sorry that it is beyond your comprehension level.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2610. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 23:34:13 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <43ebe6d9-4a55-4e66-98bd-33f2ae8b3f2a@b6g2000pre.googlegroups.com>
Source record: 16082

On Apr 29, 6:10 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:09a3ef39-15a8-4c39-ac85-364985f9505f@a5g2000pre.googlegroups.com...
>
> >I found out what the problem was! The dish itself was in the antenna
> >circuit thus the dish was part of the antenna and receiving omni.
>
> DOH!
>
> >I have discarded the dish experiment
>
> AWWW, i would have loved to have a rotatable dish for 160m!

David I still have that rotatable form for top band! I just gave up on large dish experiments! As I stated I like the idea of small and light antennas so I am keeping to those root desires. I am getting older so the idea of climbing towers has to be adressed. Thus as an engineer I solved that problem, now antennas where the height is not a necessity for low take off angles! I now have to find out what the greatest distance can be by substituting one skip for the presently used two skips ie min TOA.
Since there are not the usual sun spots one has to be inovative and devise means around it. I can still add a dish ofcourse but I like the idea of a pencil beam as it will add more gain to that single skip action. You really should get off that couch and figure out how you are going to handle a poor sun spot cycle. My cctv rotator will never be able to handle such a design when tipping is required as the weight would overcome the motor and it would point into the ground, they are built for just a small camera not a tank. By the way the antenna is good for 2 meg upto 170 meg which are the range limits of my MFJ 259 meter. My guess is that it is good for broadcast band upto a giga or more. Did you fall down?
Best regards
Art
Regards
Art

2611. Re: OT: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 23:37:48 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <02824606-0db0-4720-9adf-a743d1bb27c4@f1g2000prb.googlegroups.com>
Source record: 16083

On Apr 29, 1:29 pm, Chris W <1qaz...@cox.net> wrote:
> Sorry for the of topic post but I don't know where to ask and it is my
> experience that people who build their own antennas can be rather
> resourceful.
>
> I'm not sure of the correct terminology to use but I have been trying to
> find some "corrugated" metal tubing with threaded attachments on the
> ends. Kind of like item 50035A661 from McMaster.com web site. The
> problem with the one on McMaster web site is they are larger than I want
> and I am hoping to find something with a more standard machine screw
> thread too. Thanks for the help.
>
> --
> Chris W
> KE5GIX
>
> "Protect your digital freedom and privacy, eliminate DRM,
> learn more athttp://www.defectivebydesign.org/what_is_drm"
>
> Ham Radio Repeater Database.http://hrrdb.com

You could take off the corregated copper jacket of a piece of hard
line.
Art

2612. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 23:45:27 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <bcphv4h2ijf945rlqjvuv9o952973u0dd2@4ax.com>
Source record: 16084

On Wed, 29 Apr 2009 23:10:03 GMT, "Dave" <noone@nowhere.com> wrote:

>"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>news:09a3ef39-15a8-4c39-ac85-364985f9505f@a5g2000pre.googlegroups.com...
>>I found out what the problem was! The dish itself was in the antenna
>>circuit thus the dish was part of the antenna and receiving omni.

>>>On Thu, 9 Apr 2009 20:05:20 -0700 (PDT), Art Unwin
>>><ArthurUnwin@gmail.com> wrote:
>>>>No baluns are used
>>>
>>>That alone is at least one thing wrong with the design.

Three weeks and 300 messages ignored to discover first principles were
violated.

Is this discovery in time for this year's NoBell prize?

73's
Richard Clark, KB7QHC

2613. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-29 23:56:37 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtapfj$l0l$1@news.service.uci.edu>
Source record: 16086

Cecil Moore wrote:
> Jim Kelley wrote:
>> Mathematics is NOT a toy.
>
> Sorry that it is beyond your comprehension level.

So I take it you weren't able to answer the question, address the issues, or resist posting insults.

ac6xg

2614. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 01:05:53 UTC
From: Jon Teske <jdteske@verizon.net>
Message-ID: <qkthv4hdqs9jajfp19qrurr6fqib7sio1f@4ax.com>
Source record: 16087

>>
>> I keep hearing about steel wool rusting in/corroding Aluminum, but does
>> anyone have actual evidence?

Yeah, the mast on my sailboat as done by a previous owner of the boat. It has some serious cosmetic corrosion and small pitting (but didn't effect the mast's functionality) where the PO used steel wool to remove some boat adhesive he accidently got on the mast. There were small pits in that area. This is not as serious as aluminun to stainless steel hardware bimetalic corrosion. SOP for a boat mast is to used threaded bolts, not self tapping screws and to tap the hole. Then we put in some version of Loctite (don't remember which one there are many varieties of Loctite) designed for the purpose and sold at boating stores among many other places. That minimized the bimetalic corrosion effect. I never had any problems with the masts on my sailboat after I enlarged the corroded holes a size larger and then tapped them and put the SS machine screws in. Using anything other than 316 SS screws is inviting disaster on a boat. Hardware starts to fall off boats.

BTW my small sailboat sank last year, but that had nothing to do with corrosion. My larger boat was donated to the Sea Scouts and I'm out of sailing now. Wife (and crew) has had arthritis and had a triple bypass a years ago. I just can't send her up the mast anymore :-).

Jon W3JT

2615. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 01:06:07 UTC
From: Jon Teske <jdteske@verizon.net>
Message-ID: <tbuhv49ni6n4klnqcb929oqfn9c439pmao@4ax.com>
Source record: 16088

The problem with stainless steel wool is that the consumer has little control over what it actually is. There are many grades of stainless and some grades do rust (as I found out when some got into my non-skid on my boat.) It not as bad as ordinary steel wool, but it was a problem, particularly when I bought it specifically to avoid rust on my boat(s). I suspect SS wool is not marine grade such as 316 and 304, the two most common types on boats...they have different purposes, but I forget what the differences and uses are for each one.

I haven't had a problem with bronze wool on a boat, but I think I'll stick to emery or scotch brite for my antenna...the 2nd next to do on my list.

Jon W3JT

On Wed, 29 Apr 2009 10:37:21 -0400, Michael Coslo <mjc5@psu.edu> wrote:

>Jim Lux wrote:
>> lagagnon wrote:
>>> I am about to refurbish an old Hy-Gain TH3-Mk3 Thunderbird tri-band
>>> yagi. This yagi has been used in a coastal environment and thus the
>>> aluminum is slightly pitted and most of the connecting hardware needs
>>> replacing.
>>>
>>> I figure steel wool would work fine for the aluminum tubing,
>>
>> Avoid steel wool. Inevitably, it will leave little iron/steel fibers
>> behind, which will rust/corrode/react with the aluminum.
>
> Hi Jim,
>
>I keep hearing about steel wool rusting in/corroding Aluminum, but does
>anyone have actual evidence? I've been looking on the web, and although
>apparently using steel wool on AL will cause warts, bad breath, and the
>downfall of the free world, all I've found is admonitions not to use it.
>Maybe I'll try an experiment - I have some old antenna tubing.
>
>There's just something a little strange about this. For the steel
>particles to corrode the AL, they would have to detach, (easy enough)
>settle into pores in the Aluminum at sizes small enough to do that,
>(hmmm, those are pretty tiny steel particles) or have some odd property
>of sticking to the AL despite cleaning. Then I guess it's a race between
>rust and galvanic corrosion?
>

>
>> Use synthetic scrubbies (3M ScotchBrite) instead.
>
>Bronze or stainless steel wool might be a good material to use. Boaters
>use it on aluminum.
>
> - 73 de Mike N3LI -

2616. Re: OT: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 02:21:07 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <8e2f41cf-23b6-4efc-8a8f-a6ec40b83a71@k19g2000prh.googlegroups.com>
Source record: 16090

Chris W wrote:
> Sorry for the of topic post but I don't know where to ask and it is my
> experience that people who build their own antennas can be rather
> resourceful.
>
> I'm not sure of the correct terminology to use but I have been trying to
> find some "corrugated" metal tubing with threaded attachments on the
> ends. Kind of like item 50035A661 from McMaster.com web site. The
> problem with the one on McMaster web site is they are larger than I want
> and I am hoping to find something with a more standard machine screw
> thread too. Thanks for the help.
>
> --
> Chris W
> KE5GIX
>
> "Protect your digital freedom and privacy, eliminate DRM,
> learn more at http://www.defectivebydesign.org/what_is_drm"
>
> Ham Radio Repeater Database.
> http://hrrdb.com

Some lamps have flexible sections like you are looking for. I had one
that is about 3/8 inch in diameter that I made a microphone stand of.
Musical supply places also have such.

Jimmie

2617. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 02:31:37 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <IZ7Kl.17114$D32.12530@flpi146.ffdc.sbc.com>
Source record: 16091

Jim Kelley wrote:
> So I take it you weren't able to answer the question, address the
> issues, or resist posting insults.

I posted the math. You posted opinions devoid of
any technical content. Your assertions about
"nano-particles emitted by the framistat" do not
deserve a serious response.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2618. Re: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 03:36:55 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <DU8Kl.35007$9a.4142@bignews1.bellsouth.net>
Source record: 16092

Take a trip to your local Home Depot or Lowes - plumbing dept.
Look for a "coil" of copper tubing - have them show you various sizes.
Though it's not corrugated, it is flexible - and you can use compression
fittings - or - soldered fittings with threads.
Makes for good 2-meter quad elements. use larger sizes for more bandwidth
smaller sizes are more flexible, of course - what size are you looking for?

my 2¢ worth
found that cents-key
hal - w4pmj

"Chris W" <1qazse4@cox.net> wrote in message
news:D01Kl.64230$FR3.47263@newsfe04.iad...
> Sorry for the of topic post but I don't know where to ask and it is my
> experience that people who build their own antennas can be rather
> resourceful.
>
> I'm not sure of the correct terminology to use but I have been trying to
> find some "corrugated" metal tubing with threaded attachments on the ends.
> Kind of like item 50035A661 from McMaster.com web site. The problem with
> the one on McMaster web site is they are larger than I want and I am
> hoping to find something with a more standard machine screw thread too.
> Thanks for the help.
>
> --
> Chris W
> KE5GIX
>
> "Protect your digital freedom and privacy, eliminate DRM,
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>
> Ham Radio Repeater Database.
> http://hrrdb.com

2619. Re: OT: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 03:42:13 UTC
From: Chris W <1qazse4@cox.net>
Message-ID: <p69Kl.77$LO7.49@newsfe23.iad>
Source record: 16093

Art Unwin wrote:
> On Apr 29, 1:29 pm, Chris W <1qaz...@cox.net> wrote:
>> Sorry for the of topic post but I don't know where to ask and it is my
>> experience that people who build their own antennas can be rather
>> resourceful.
>>
>> I'm not sure of the correct terminology to use but I have been trying to
>> find some "corrugated" metal tubing with threaded attachments on the
>> ends. Kind of like item 50035A661 from McMaster.com web site. The
>> problem with the one on McMaster web site is they are larger than I want
>> and I am hoping to find something with a more standard machine screw
>> thread too. Thanks for the help.
>>
>> --
>> Chris W
>> KE5GIX
>>
>> "Protect your digital freedom and privacy, eliminate DRM,
>> learn more athttp://www.defectivebydesign.org/what_is_drm"
>>
>> Ham Radio Repeater Database.http://hrrdb.com
>
> You could take off the corregated copper jacket of a piece of hard
> line.
> Art

That might work. I have never purchased hard line before. Any idea
where I can get some short lengths that is in the 1/4" range. I wonder
how hard it would be to pull the center conductor and dielectric out of
a 12" log piece?

--
Chris W
KE5GIX

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Ham Radio Repeater Database.
http://hrrdb.com

2620. Re: OT: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 03:43:22 UTC
From: Chris W <1qazse4@cox.net>
Message-ID: <u79Kl.78$LO7.12@newsfe23.iad>
Source record: 16094

JIMMIE wrote:
>
> Chris W wrote:
>> Sorry for the of topic post but I don't know where to ask and it is my
>> experience that people who build their own antennas can be rather
>> resourceful.
>>
>> I'm not sure of the correct terminology to use but I have been trying to
>> find some "corrugated" metal tubing with threaded attachments on the
>> ends. Kind of like item 50035A661 from McMaster.com web site. The
>> problem with the one on McMaster web site is they are larger than I want
>> and I am hoping to find something with a more standard machine screw
>> thread too. Thanks for the help.
>>
>> --
>> Chris W
>> KE5GIX
>>
>> "Protect your digital freedom and privacy, eliminate DRM,
>> learn more at http://www.defectivebydesign.org/what_is_drm"
>>
>> Ham Radio Repeater Database.
>> http://hrrdb.com
>
> Some lamps have flexible sections like you are looking for. I had one
> that is about 3/8 inch in diameter that I made a microphone stand of.
> Musical supply places also have such.
>
> Jimmie

That sounds like what I am looking for, but want something smaller. No
more than 1/4 or maybe 5/16" dia. It is to make my own lamps that will
be just a few 5mm LEDs.

--
Chris W
KE5GIX

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Ham Radio Repeater Database.
http://hrrdb.com

2621. Re: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 03:44:35 UTC
From: Chris W <1qazse4@cox.net>
Message-ID: <D89Kl.79$LO7.56@newsfe23.iad>
Source record: 16095

The reason I am looking for the corrugated tubing is so it will stay
where I put it. It is for a small LED lamp. 1/4" dia is about as big
as it needs to be.

Hal Rosser wrote:
> Take a trip to your local Home Depot or Lowes - plumbing dept.
> Look for a "coil" of copper tubing - have them show you various sizes.
> Though it's not corrugated, it is flexible - and you can use compression
> fittings - or - soldered fittings with threads.
> Makes for good 2-meter quad elements. use larger sizes for more bandwidth
> smaller sizes are more flexible, of course - what size are you looking for?
>
> my 2ï¿½ worth
> found that cents-key
> hal - w4pmj
>
>
> "Chris W" <1qazse4@cox.net> wrote in message
> news:D01Kl.64230$FR3.47263@newsfe04.iad...
>> Sorry for the of topic post but I don't know where to ask and it is my
>> experience that people who build their own antennas can be rather
>> resourceful.
>>
>> I'm not sure of the correct terminology to use but I have been trying to
>> find some "corrugated" metal tubing with threaded attachments on the ends.
>> Kind of like item 50035A661 from McMaster.com web site. The problem with
>> the one on McMaster web site is they are larger than I want and I am
>> hoping to find something with a more standard machine screw thread too.
>> Thanks for the help.
>>
>> --
>> Chris W
>> KE5GIX
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>> "Protect your digital freedom and privacy, eliminate DRM,
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>
>

--
Chris W
KE5GIX

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Ham Radio Repeater Database.
http://hrrdb.com

2622. Re: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 04:18:37 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <zE9Kl.20$uD3.17@newsfe20.iad>
Source record: 16096

"Chris W" <1qazse4@cox.net> wrote in message
news:D01Kl.64230$FR3.47263@newsfe04.iad...
> I'm not sure of the correct terminology to use but I have been trying
> to find some "corrugated" metal tubing with threaded attachments on the
> ends. Kind of like item 50035A661 from McMaster.com web site. The
> problem with the one on McMaster web site is they are larger than I
> want and I am hoping to find something with a more standard machine
> screw thread too. Thanks for the help.

While searching, try the words corrugated tubing and bellows.
ThomasNet.com found over a hundred suppliers of metal bellows. Just
looking at a few manufacturers they found, 1/4" OD welded bellows and
tubing was relatively common.
http://www.thomasnet.com/nsearch.html?cov=NA&what=Bellows%3A+Metal&heading=4451001&navsec=prodsearch

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

2623. Re: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 04:27:33 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4bf1edcd-4f1a-494e-81ed-95f977b476d5@d2g2000pra.googlegroups.com>
Source record: 16097

On Apr 29, 10:44 pm, Chris W <1qaz...@cox.net> wrote:
> The reason I am looking for the corrugated tubing is so it will stay
> where I put it. It is for a small LED lamp. 1/4" dia is about as big
> as it needs to be.
>
>
>
> Hal Rosser wrote:
> > Take a trip to your local Home Depot or Lowes - plumbing dept.
> > Look for a "coil" of copper tubing - have them show you various sizes.
> > Though it's not corrugated, it is flexible - and you can use compression
> > fittings - or - soldered fittings with threads.
> > Makes for good 2-meter quad elements. use larger sizes for more bandwidth
> > smaller sizes are more flexible, of course - what size are you looking for?
>
> > my 2¢ worth
> > found that cents-key
> > hal - w4pmj
>
> > "Chris W" <1qaz...@cox.net> wrote in message
> >news:D01Kl.64230$FR3.47263@newsfe04.iad...
> >> Sorry for the of topic post but I don't know where to ask and it is my
> >> experience that people who build their own antennas can be rather
> >> resourceful.
>
> >> I'm not sure of the correct terminology to use but I have been trying to
> >> find some "corrugated" metal tubing with threaded attachments on the ends.
> >> Kind of like item 50035A661 from McMaster.com web site. The problem with
> >> the one on McMaster web site is they are larger than I want and I am
> >> hoping to find something with a more standard machine screw thread too.
> >> Thanks for the help.
>
> >> --
> >> Chris W
> >> KE5GIX
>
> >> "Protect your digital freedom and privacy, eliminate DRM,
> >> learn more athttp://www.defectivebydesign.org/what_is_drm"
>
> >> Ham Radio Repeater Database.
> >>http://hrrdb.com
>
> --
> Chris W

> KE5GIX
>
> "Protect your digital freedom and privacy, eliminate DRM,
> learn more athttp://www.defectivebydesign.org/what_is_drm"
>
> Ham Radio Repeater Database.http://hrrdb.com

It is hard to visualize yout needs expecially because of the small
dimensions.
The closest I can get to your needs is a corregated drinking straw
which is then covered by an adhesive metal foil or even a metallized
plastic sheet (not mylar) of 1 mil thickness which would be very
flexible
Art

2624. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 04:41:21 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <UZ9Kl.1753$bi7.299@newsfe07.iad>
Source record: 16098

"Michael Coslo" <mjc5@psu.edu> wrote in message
news:gt9onl$ng7i$1@tr22n12.aset.psu.edu...
> Then I guess it's a race between rust and galvanic corrosion?

The aluminum will prevent the steel from rusting at the expense of its
own corrosion.

>> Use synthetic scrubbies (3M ScotchBrite) instead.
>
> Bronze or stainless steel wool might be a good material to use.
> Boaters use it on aluminum.

Because boaters do not understand corrosion and electrochemical
reactions, they often choose poor materials. Brass is more cathodic than
steel, the 400 grade ferritic and martensitic stainless steels are more
cathodic than brass, the 300 grade austenitic stainless steels are more
cathodic than the 400 grades, and precipitation hardenable stainless
steels like 17-4PH lie between 300 and 400 grade stainless in being
cathodic. The more anodic a material is, the faster it corrodes. The
more cathodic (or noble) a metal is, the slower it corrodes.

As I said earlier, I have several good, introductory articles on
corrosion and galvanic series that I can send upon request by email.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

2625. Re: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 06:07:19 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <rebKl.3646$b11.384@nwrddc02.gnilink.net>
Source record: 16099

Hi Chris W

There are some Machinest's Tools that include stalks that can be bent to
various positions. I suspect those parts would be expensive.

Jerry KD6JDJ

"Chris W" <1qazse4@cox.net> wrote in message
news:D89Kl.79$LO7.56@newsfe23.iad...
> The reason I am looking for the corrugated tubing is so it will stay where
> I put it. It is for a small LED lamp. 1/4" dia is about as big as it
> needs to be.
>
> Hal Rosser wrote:
>> Take a trip to your local Home Depot or Lowes - plumbing dept.
>> Look for a "coil" of copper tubing - have them show you various sizes.
>> Though it's not corrugated, it is flexible - and you can use compression
>> fittings - or - soldered fittings with threads.
>> Makes for good 2-meter quad elements. use larger sizes for more
>> bandwidth
>> smaller sizes are more flexible, of course - what size are you looking
>> for?
>>
>> my 2¢ worth
>> found that cents-key
>> hal - w4pmj
>>
>>
>> "Chris W" <1qazse4@cox.net> wrote in message
>> news:D01Kl.64230$FR3.47263@newsfe04.iad...
>>> Sorry for the of topic post but I don't know where to ask and it is my
>>> experience that people who build their own antennas can be rather
>>> resourceful.
>>>
>>> I'm not sure of the correct terminology to use but I have been trying to
>>> find some "corrugated" metal tubing with threaded attachments on the
>>> ends. Kind of like item 50035A661 from McMaster.com web site. The
>>> problem with the one on McMaster web site is they are larger than I want
>>> and I am hoping to find something with a more standard machine screw
>>> thread too. Thanks for the help.
>>>
>>> --
>>> Chris W
>>> KE5GIX

>>>
>>> "Protect your digital freedom and privacy, eliminate DRM,
>>> learn more at http://www.defectivebydesign.org/what_is_drm"
>>>
>>> Ham Radio Repeater Database.
>>> http://hrrdb.com
>>
>>
>
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> Chris W
> KE5GIX
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> "Protect your digital freedom and privacy, eliminate DRM,
> learn more at http://www.defectivebydesign.org/what_is_drm"
>
> Ham Radio Repeater Database.
> http://hrrdb.com

2626. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 11:57:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <umgKl.9288$im1.5016@nlpi061.nbdc.sbc.com>
Source record: 16100

Jim Kelley wrote:
> Cecil Moore <nos...@w5dxp.com> wrote:
>> Note: The above is a conceptual simplification as it
>> ignores the current "bulge" in a real-world loading
>> coil.
>
> It ingores almost everything about the antenna.

According to Kraus, the standing waves are the *primary*
effect associated with a standing-wave antenna. Everything
else is indeed a secondary effect. The standing wave current
is about 90% of the total steady-state current. Like a low-
loss transmission line, a loaded mobile antenna can be
analyzed by assuming that it is lossless.

"Antennas", by Kraus, 3rd edition, Re: Standing Wave Antennas

Page 187: "A sinusoidal current distribution may be
regarded as the standing wave produced by two uniform
(unattenuated) traveling waves of equal amplitude moving
in opposite directions along the antenna."

Page 464: "It is generally assumed that the current
distribution of a thin-wire antenna is sinusoidal, and
that the phase is constant over a 1/2WL interval, ..."

Both of Kraus' statements assume a lossless antenna.

>> Note that at the coil/stinger junction:
>> Itot = k1*cos(k2*x)*cos(wt) = k3*cos(k4*x)*cos(wt)
>
> Uh, what units did you say your constants k1-k4 had again?

k1 and k3 have the units of current and are the magnitude
of the two standing-wave current phasors on each side of
the coil/stinger junction.

k2 and k4 have the units of degrees/unit-length so when
they are multiplied by x, the result is degrees. Of course,
it could be radians/unit-length.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2627. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 12:12:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <aBgKl.9291$im1.2592@nlpi061.nbdc.sbc.com>
Source record: 15951

Roy Lewallen wrote:
> There's no such thing as "standing wave current". You'll find no
> references to this fictitious entity in any electromagnetics text.

On the contrary,

"Traveling Wave Engineering", R.K.Moore, page 134:

Fig. 5-12. Voltage and Current Standing Waves on
open-circuited line.

i = Re(V+/Z0)[e^j(wt+bd)+e^j(wt-bd)

This is the same equation for standing wave current
that appears in "Fields and Waves ...", Ramo and
Whinnery.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2628. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 14:27:20 UTC
From: Jon Teske <jdteske@verizon.net>
Message-ID: <9s9jv49f3e0q2jbnu9ub8qp1t2ihs3j3mm@4ax.com>
Source record: 15952

On Thu, 30 Apr 2009 00:41:21 -0400, "Dr. Barry L. Ornitz"
<BLOrnitz48@charter.net> wrote:

>"Michael Coslo" <mjc5@psu.edu> wrote in message
>news:gt9onl$ng7i$1@tr22n12.aset.psu.edu...
>> Then I guess it's a race between rust and galvanic corrosion?
>
>The aluminum will prevent the steel from rusting at the expense of its
>own corrosion.
>
>>> Use synthetic scrubbies (3M ScotchBrite) instead.
>>
>> Bronze or stainless steel wool might be a good material to use.
>> Boaters use it on aluminum.
>
>Because boaters do not understand corrosion and electrochemical
>reactions, they often choose poor materials. Brass is more cathodic than
>steel, the 400 grade ferritic and martensitic stainless steels are more
>cathodic than brass, the 300 grade austenitic stainless steels are more
>cathodic than the 400 grades, and precipitation hardenable stainless
>steels like 17-4PH lie between 300 and 400 grade stainless in being
>cathodic. The more anodic a material is, the faster it corrodes. The
>more cathodic (or noble) a metal is, the slower it corrodes.
>
>As I said earlier, I have several good, introductory articles on
>corrosion and galvanic series that I can send upon request by email.

As I discovered when I did a restoration and rebuild on my sailboat
about 10 years ago. All of the original interior woodwork fittings on
the boat were held in place by decorative brass screws. As the boat
was built in 1971, but the time I got to it in the late 90's all the
brass screws had "zincified" (probably not the correct term to a
metallurgist, but one that appears in boating literature). This
results in the screws having a pinkish color and they become
very brittle. Any attempt at removing them resulted in the head
breaking off or the Philips cross slot stripping out. I had to remove
all of these with a screw removal tool. They were all replaced with
coated SS screws, the coating for decorative purposes.

At least among sailboaters, who for some reason appear to be more
technically savvy than power boaters, galvanic corrosion is pretty
well understood at least at a layman's level. Most boat repair books
mention this and include the galvanic series and the relative
"nobility" of various metals and alloys. Those of us who sail in salt
water are also well aware of the need to put sacrificial zincs on our

boats to prevent damage to other metal parts. Replacing these is a regular part of our annual maintenance.

A very high percentage of sailboaters are also hams, far beyond our normal density in the overall population.

Jon W3JT

2629. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 19:20:30 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtctlvflh1@news.service.uci.edu>
Source record: 15953

Cecil Moore wrote:
> Jim Kelley wrote:
>> It ignores almost everything about the antenna.
>
> "Antennas", by Kraus, 3rd edition, Re: Standing Wave Antennas

Kraus on the other hand ignores almost nothing about antennas. (for ref. I'm looking at his 2nd edition.)

>> Uh, what units did you say your constants k1-k4 had again?
>
> k1 and k3 have the units of current and are the magnitude
> of the two standing-wave current phasors on each side of
> the coil/stinger junction.
>
> k2 and k4 have the units of degrees/unit-length so when
> they are multiplied by x, the result is degrees. Of course,
> it could be radians/unit-length.

So the constants in your equations for current on the segments of a coil loaded monpole are: maximum current, wave number, and frequency; and the linear variables are time, and distance.

Of those things, only maximum current would have any dependence at all on the nature of the antenna. How does one know what value Imax to plug-in for each segment?

ac6xg

2630. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 19:37:55 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtcumkfsf1@news.service.uci.edu>
Source record: 15954

Cecil Moore wrote:
> Roy Lewallen wrote:
>> There's no such thing as "standing wave current". You'll find no
>> references to this fictitious entity in any electromagnetics text.
>
> On the contrary,
>
> "Traveling Wave Engineering", R.K.Moore, page 134:
>
> Fig. 5-12. Voltage and Current Standing Waves on
> open-circuited line.
>
> i = Re(V+/Z0)[e^j(wt+bd)+e^j(wt-bd)
>
> This is the same equation for standing wave current
> that appears in "Fields and Waves ...", Ramo and
> Whinnery.

So I guess that ups the total now to at least two that we know of. Just exactly how many different kinds of alternating current do you reckon there are, Cecil? :-)

ac6xg

2631. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 20:06:48 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gtd0co$o42a$1@tr22n12.aset.psu.edu>
Source record: 15955

Dr. Barry L. Ornitz wrote:
> "Michael Coslo" <mjc5@psu.edu> wrote in message
> news:gt9onl$ng7i$1@tr22n12.aset.psu.edu...
>> Then I guess it's a race between rust and galvanic corrosion?
>
> The aluminum will prevent the steel from rusting at the expense of its
> own corrosion.
>
>>> Use synthetic scrubbies (3M ScotchBrite) instead.
>> Bronze or stainless steel wool might be a good material to use.
>> Boaters use it on aluminum.
>
> Because boaters do not understand corrosion and electrochemical
> reactions, they often choose poor materials. Brass is more cathodic than
> steel, the 400 grade ferritic and martensitic stainless steels are more
> cathodic than brass, the 300 grade austenitic stainless steels are more
> cathodic than the 400 grades, and precipitation hardenable stainless
> steels like 17-4PH lie between 300 and 400 grade stainless in being
> cathodic. The more anodic a material is, the faster it corrodes. The
> more cathodic (or noble) a metal is, the slower it corrodes.
>
> As I said earlier, I have several good, introductory articles on
> corrosion and galvanic series that I can send upon request by email.

I'd be interested. I'm one of those folks who post an actual address in
the newsgroup, so if you would be so kind. Thanks in advance...

- 73 de Mike N3LI -

2632. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 20:53:13 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <k5oKl.3408$fD.3001@flpi145.ffdc.sbc.com>
Source record: 15956

Jim Kelley wrote:
> Kraus on the other hand ignores almost nothing about antennas. (for ref.
> I'm looking at his 2nd edition.)

On the contrary, for the purposes of current analysis on
a standing-wave antenna, Kraus ignores everything except
the current in the standing wave. I don't have the 2nd
edition but the graphic I am referencing was in the 1st
and 3rd editions.

Chapter 14 in the 3rd edition is "The Cylindrical Antenna
and the Moment Method".

In the 3rd edition, it is Figure 14-2, Relative current
amplitude and phase along a center-fed 1/2WL antenna. He
gives the curves for length/diameters of infinity and 75.
Please take a look at that graph in your 2nd edition and
in particular, note the current phase plot. This is the
same current that Roy used for his coil delay "measurements".

Kraus shows that phase angle varying by about 3 degrees over
180 degrees of antenna. How can that phase possibly be used
to measure the delay in a wire? Since it cannot be used to
measure the delay in a wire, why would anyone attempt to
measure the delay in a loading coil using the same current?

> Of those things, only maximum current would have any dependence at all
> on the nature of the antenna. How does one know what value Imax to
> plug-in for each segment?

Kraus normalizes the feedpoint current to 1.0 and that's
good enough for me. The actual value of Imax obviously depends
upon the power incident upon the antenna. If one assumes a
current of 1.0 at the feedpoint of the coil, then one can calculate
the Imax at the base of the stinger given the Z0 of the loading
coil and the Z0 of the stinger. I can lead you through a
qualitative analysis if you so desire.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2633. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 20:59:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <yboKl.3409$fD.3355@flpi145.ffdc.sbc.com>
Source record: 15957

Jim Kelley wrote:
> So I guess that ups the total now to at least two that we know of.
> Just exactly how many different kinds of alternating current do you
> reckon there are, Cecil? :-)

The point is that the current in a pure standing wave has
a different equation from the current in a pure traveling
wave. Any fields and waves reference book will have those
equations. The current in a pure standing wave cannot be
used to measure any kind of phase shift between points
because the phase doesn't shift between points on a wire
or on a coil. The current in a standing-wave antenna, like
a loaded mobile antenna, is primarily standing wave current.
Why do you think they are called standing wave antennas?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2634. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 21:47:36 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtd69piio1@news.service.uci.edu>
Source record: 15958

Cecil Moore wrote:
> Jim Kelley wrote:
>> Kraus on the other hand ignores almost nothing about antennas. (for
>> ref. I'm looking at his 2nd edition.)
>
> On the contrary, for the purposes of current analysis on
> a standing-wave antenna, Kraus ignores everything except
> the current in the standing wave.

Kraus, in his book entitled "Antennas" ignores almost nothing about antennas. I don't believe that is a controversial point of view.

>> Of those things, only maximum current would have any dependence at all
>> on the nature of the antenna. How does one know what value Imax to
>> plug-in for each segment?

> Kraus normalizes the feedpoint current to 1.0 and that's
> good enough for me.

Yes, unless of course you're talking about a real antenna with actual current on it. That is what I thought we were talking about. My recollection is that it was resonant on 75 meters, and the coil and stinger have very specific dimensions.

> The actual value of Imax obviously depends
> upon the power incident upon the antenna. If one assumes a
> current of 1.0 at the feedpoint of the coil, then one can calculate
> the Imax at the base of the stinger given the Z0 of the loading
> coil and the Z0 of the stinger.

It might even be better to measure it - with some type of current probe device. Then you could solve for phase at any x or t you want.

ac6xg

2635. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 22:26:49 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtd8jajdd1@news.service.uci.edu>
Source record: 15959

Cecil Moore wrote:
> Jim Kelley wrote:
>> So I guess that ups the total now to at least two that we know of.
>> Just exactly how many different kinds of alternating current do you
>> reckon there are, Cecil? :-)
>
> The point is that the current in a pure standing wave has
> a different equation from the current in a pure traveling
> wave.

No, actually the point was the name.

> Any fields and waves reference book will have those
> equations.

And what they don't have is different and assorted pet names for current.

> The current in a pure standing wave cannot be
> used to measure any kind of phase shift between points
> because the phase doesn't shift between points on a wire
> or on a coil.

If there is no difference in the relative phase of the forward and
reflected waves, then there is no change in the amplitude of the
standing wave in x. But when there is a change in the amplitude of the
standing wave in x, and I max is known, then determining the shift in
phase from the equation is a no brainer, Cecil. Other than Imax (and
you claim that assuming it's unity is good enough), there's virtually
nothing else that determines the amplitude of the standing wave envelope
along x. Helloooo.

< The current in a standing-wave antenna, like
> a loaded mobile antenna, is primarily standing wave current.

And you keep saying that as if it had some special significance.

ac6xg

2636. Re: OT: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 23:04:24 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Y7qKl.1630$fy.537@nwrddc01.gnilink.net>
Source record: 15960

"Chris W" <1qazse4@cox.net> wrote in message
news:p69Kl.77$LO7.49@newsfe23.iad...
> Art Unwin wrote:
>> On Apr 29, 1:29 pm, Chris W <1qaz...@cox.net> wrote:
>>> Sorry for the of topic post but I don't know where to ask and it is my
>>> experience that people who build their own antennas can be rather
>>> resourceful.
>>>
>>> I'm not sure of the correct terminology to use but I have been trying to
>>> find some "corrugated" metal tubing with threaded attachments on the
>>> ends. Kind of like item 50035A661 from McMaster.com web site. The
>>> problem with the one on McMaster web site is they are larger than I want
>>> and I am hoping to find something with a more standard machine screw
>>> thread too. Thanks for the help.
>>>
>>> --
>>> Chris W
>>> KE5GIX
>>>
>>> "Protect your digital freedom and privacy, eliminate DRM,
>>> learn more athttp://www.defectivebydesign.org/what_is_drm"
>>>
>>> Ham Radio Repeater Database.http://hrrdb.com
>>
>> You could take off the corregated copper jacket of a piece of hard
>> line.
>> Art
>
> That might work. I have never purchased hard line before. Any idea where
> I can get some short lengths that is in the 1/4" range. I wonder how
> hard it would be to pull the center conductor and dielectric out of a 12"
> log piece?
>

you would have to melt it out of the corrugated type of hardline since it is
molded into the corrugation.

2637. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-04-30 23:09:29 UTC
From: Dave <noone@nowhere.com>
Message-ID: <JcqKl.1632$fy.164@nwrddc01.gnilink.net>
Source record: 15961

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:43ebe6d9-4a55-4e66-98bd-33f2ae8b3f2a@b6g2000pre.googlegroups.com...
On Apr 29, 6:10 pm, "Dave" <no...@nowhere.com> wrote:
>David I still have that rotatable form for top band! I just gave up on
>large dish experiments! As I stated I like the idea of small and light
>antennas so I am keeping to those root desires.
>I can still add a dish ofcourse but I like the
>idea of a pencil beam as it will add more gain to that single skip
>action.

good, when you get that rotatable pencil beam antenna for 160m let me know.

2638. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 00:23:35 UTC
From: dfinn1@nc.rr.com
Message-ID: <50714298-27d6-44a8-b007-6aa726f5411b@d2g2000pra.googlegroups.com>
Source record: 15962

On Apr 25, 1:33 am, Gordon <go...@alltomyself.com> wrote:
> This seems to be the only news group devoted to the topic of antennas.
> (and the origins of the universe). So maybe you guys can help me
> with this.
>
> I have been experimenting with fabricating a decent
> indoor DTV antenna. I have tried several things. What I have
> now is two bowties spaced about 7 inches apart on a wood dowel.
> A peanut butter jar with rocks in it makes up the base.
>
> It seems to give pretty good performance. It could be better.
> But I am wondering about a few things.
>
> 1) Right now all the digital transmissions are in the UHF band.
> but in 6 weeks, three stations will move back to their VHF
> assignments in the VHF high band.
> How well can I expect my antenna to work in that frequency band?
>
> 2) I have not trimmed or dressed the twin lead from the bowties.
> I understand that twin-lead can act as antennas. So what
> is the best way to manage the twinlead? Cut it back? I noticed
> that when i laid the leads together, in an attempt to make a
> neat assembly, I got signal cancelation.
>
> 3) Any suggestions to improve this design?
>
> 4) Any suggestions for alternitive DIY designs?
>
> Thanks

Gordon, I installed a large radio shack "tagi" type TV receiving antenna in my attic 10 years since the house came wired for it. I pointed the antenna in the general direction of the transmitting antennae in my area and received excellent analog reception even with the 5-10dB attenuation that occurs with VHF and UHF from the wooden roof with asphalt shingles. I even have a rotor but never had to really use it.

Now, with DTV, the exact same antenna gives me excellent reception as well, just as good as analog (but of course "better" due to the nature of DTV broadcasts).

I think for DTV that uses both UHF and VHF, you should be able to use the same antenna that you used with the analog system that used UHF and VHF and (as you know) you will probably find that the digital

signal is better in any case. Whatever their technology, these are all multiband receiving antennas and the spectra for DTV and analog TV are much the same. There are no technical aspects that need to be covered here because there really is no problem.

Regards,

73 de AI4QJ

2639. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 00:39:11 UTC
From: dfinn1@nc.rr.com
Message-ID: <4ed82b4b-3f36-481d-86ec-31a760c7b82a@y6g2000prf.googlegroups.com>
Source record: 15963

Your whole wave concept of the universe (sinusoidal vibrations) is
only part of the picture that is very very old and outdated. You
ignore another component, quantum mechanics, which requires a good
knowledge of mathematics to conceptualize well where possible to do so
at all. Even then, conceptualization falls apart when you try to
account for other phenomena such as exotic energy and matter and worse
when you go into specific theories that involve added dimensions to
our 4-D concept of the universe. You have been trying for years but
you will get nowhere looking for your holy grail as long as you
believe you have the answers because, alas, you are the only ham who
is thinking outside of the box. Humans cannot conceptualize the
universe in terms of a soap bubble and most cannot even express their
definition of a soap bubble in more than 3 dimensions. Only
mathematics can be used to express what you are attempting and
although the math may be understood, even the mathemetician or
physicist who derives his concepts usually cannot conceptualize them
in terms of their physical experience.

On Apr 18, 3:42 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 18, 1:41 pm, "Dave" <no...@nowhere.com> wrote:
>
>
>
>
>
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> >news:3978d815-b3b5-45bc-933a-326bbebf63f3@h28g2000yqd.googlegroups.com...
>
> > >Physics is physics, otherwise known as Classical physics
>
> > only in your mind.
>
> > >He used the boundary method except using only two dimensions
> > >and not three which requires the dimension of time.
>
> > best re-read it again, and again... Gauss' law is in 3d, it has to be in 3d
> > because the electric field from a charge is not confined to a plane... never
> > was and never will be. unlike your thinking art.
>
> > >Vibration is resonance in terms of our Earth since it does not account
> > >for all forces involved in the Universe which requires balance or
> > >equilibrium.
>

> > the 'universe' makes no requirements, it is the laws of physics that control
> > the universe. nothing in the universe is anywhere near in equilibrium or we
> > would all be cold dark cinders.
>
> Only because we , humans,do not know the extent of the boundaries of
> the Cosmos as a whole
> You cannot deal with true equilibrium while neglecting the outer space
> beyond our Universe. Study the law of partial pressures to get a
> deeper understanding.
> We can only deal in the Universe we know which is only one bubble or
> boundary of many that constitutes the Cosmos. But let it drop David.
> Yes, I have an antenna that I lifted into the rotator on my tower with
> my bare hands for top band and other bands including AM! I built it
> and many others on the theories and principles that I have enunciated.
> Maybe my theory is incorrect and the antenna, which is a fact,sorry
> about that, can be attributed to a different theory. I will continue
> to look for a alternative that also is agreed upon by present antenna
> computer programs which I assume to be correct as they are based on
> the presence of equilibrium] with accountability for all forces,
> because they duplicate the results and configuration of my rotatable
> antenna. In the mean time study the thread regarding helix antennas on
> QRZ antenna construction which now has over 4k hits without similar
> comments such as yours.
> Regards and best 73s
> Art- Hide quoted text -
>
> - Show quoted text -

2640. Re: Where to find flexible metal tubing (GOT_IT! - copper tubing kit for ice maker)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 01:00:33 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <rOrKl.35708$qa.13552@bignews4.bellsouth.net>
Source record: 15964

OK
Here you go - check out a copper tubing type (as opposed to plastic tubing type) of Ice-maker connection kit.

http://www.lowes.com/lowes/lkn?action=productDetail&productId=53757-131-813&lpage=none

This oughta do ya.
your welcome

Thats 5€ worth

2641. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 01:11:53 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <54235487-3a12-4099-92f3-b56ddb4c7d8a@n7g2000prc.googlegroups.com>
Source record: 15965

On Apr 30, 6:09 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:43ebe6d9-4a55-4e66-98bd-33f2ae8b3f2a@b6g2000pre.googlegroups.com...
> On Apr 29, 6:10 pm, "Dave" <no...@nowhere.com> wrote:
>
> >David I still have that rotatable form for top band! I just gave up on
> >large dish experiments! As I stated I like the idea of small and light
> >antennas so I am keeping to those root desires.
> >I can still add a dish ofcourse but I like the
> >idea of a pencil beam as it will add more gain to that single skip
> >action.
>
> good, when you get that rotatable pencil beam antenna for 160m let me know.

I believe I have it now but I have yet to demonstrate and thus
prove. But for you tomorrow is another day and tomorrow never comes.
Regards
Art

2642. Grayland QDFA Antenna Review Online

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 01:12:16 UTC
From: Guy Atkins <atkinsguy@gmail.com>
Message-ID: <a164771b-765e-4bcc-adcd-6ff89bc51b18@n7g2000prc.googlegroups.com>
Source record: 15966
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

I've posted my review of Dallas Lankford's antenna design, which he's
dubbed the Grayland QDFA:

http://perseus-sdr.blogspot.com/2009/04/grayland-qdfa-dallas-lankfords.html

For DXers, an MP3 is worth a thousand pictures... to twist a phrase.
Check out the recordings in the article to hear what a four loop delta
flag sounds like.

Guy Atkins KE7MAV
Puyallup, WA USA
www.perseus-sdr.blogspot.com

2643. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 02:31:22 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <fc95f5ac-6d4d-4e19-87bf-4adf9dc1a77c@j9g2000prh.googlegroups.com>
Source record: 15967

On Apr 30, 7:39 pm, dfi...@nc.rr.com wrote:
> Your whole wave concept of the universe (sinusoidal vibrations) is
> only part of the picture that is very very old and outdated. You
> ignore another component, quantum mechanics, which requires a good
> knowledge of mathematics to conceptualize well where possible to do so
> at all. Even then, conceptualization falls apart when you try to
> account for other phenomena such as exotic energy and matter and worse
> when you go into specific theories that involve added dimensions to
> our 4-D concept of the universe. You have been trying for years but
> you will get nowhere looking for your holy grail as long as you
> believe you have the answers because, alas, you are the only ham who
> is thinking outside of the box. Humans cannot conceptualize the
> universe in terms of a soap bubble and most cannot even express their
> definition of a soap bubble in more than 3 dimensions. Only
> mathematics can be used to express what you are attempting and
> although the math may be understood, even the mathemetician or
> physicist who derives his concepts usually cannot conceptualize them
> in terms of their physical experience.
>
> On Apr 18, 3:42 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> > On Apr 18, 1:41 pm, "Dave" <no...@nowhere.com> wrote:
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> > > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
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> > >news:3978d815-b3b5-45bc-933a-326bbebf63f3@h28g2000yqd.googlegroups.com...
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> > We can only deal in the Universe we know which is only one bubble or
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> > and many others on the theories and principles that I have enunciated.
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> > to look for a alternative that also is agreed upon by present antenna
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> > the presence of equilibrium] with accountability for all forces,
> > because they duplicate the results and configuration of my rotatable
> > antenna. In the mean time study the thread regarding helix antennas on
> > QRZ antenna construction which now has over 4k hits without similar
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A lot of words. As far as mathematics is concerned I started with the
Mathematics of Gauss and Maxwell and found they were mathematically
connected. Nobody on this group agreed with that posture of mine. So
as far as mathematics goes with this group is straight out of the
window! Cecil tried that aproach and failed also. Now you are
proposing that mathematics is the trail that reveals all. Sooooo, be
my guest. I will do my best in following the trail that you have in
mind that you feel is better than mine. My guess is that you have
nothing in mind and are standing on sand like Andy Capp.

2644. Re: OT: Where to find flexible metal tubing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 03:01:07 UTC
From: Rick Frazier <rickf@rickfrazier.com>
Message-ID: <49fa65f6$0$7618$906e352@unlimited.newshosting.com>
Source record: 15968

Chris W wrote:
> JIMMIE wrote:
>>
>> Chris W wrote:
>>> Sorry for the of topic post but I don't know where to ask and it is my
>>> experience that people who build their own antennas can be rather
>>> resourceful.
>>>
>>> I'm not sure of the correct terminology to use but I have been trying to
>>> find some "corrugated" metal tubing with threaded attachments on the
>>> ends. Kind of like item 50035A661 from McMaster.com web site. The
>>> problem with the one on McMaster web site is they are larger than I want
>>> and I am hoping to find something with a more standard machine screw
>>> thread too. Thanks for the help.
>>>
>>> --
>>> Chris W
>>> KE5GIX
>>>
>>> "Protect your digital freedom and privacy, eliminate DRM,
>>> learn more at http://www.defectivebydesign.org/what_is_drm"
>>>
>>> Ham Radio Repeater Database.
>>> http://hrrdb.com
>>
>> Some lamps have flexible sections like you are looking for. I had one
>> that is about 3/8 inch in diameter that I made a microphone stand of.
>> Musical supply places also have such.
>>
>> Jimmie
>
> That sounds like what I am looking for, but want something smaller. No
> more than 1/4 or maybe 5/16" dia. It is to make my own lamps that will
> be just a few 5mm LEDs.
>
Go to EBay and search for USB flexible light. You'll find a flexible
tube about 3/16 dia with a head that has an LED, and a USB connector on
the other... They're cheaper than trying to source the flex tube
separately.

--Rick

2645. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 04:24:33 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9BFDCF9922B9greederxprtnet@194.177.98.144>
Source record: 15969

dfinn1@nc.rr.com wrote in
news:50714298-27d6-44a8-b007-6aa726f5411b@d2g2000pra.googlegroups.com:

> On Apr 25, 1:33 am, Gordon <go...@alltomyself.com> wrote:
>> This seems to be the only news group devoted to the topic of
>> antennas. (and the origins of the universe). So maybe you guys can
>> help me with this.
>>
>> I have been experimenting with fabricating a decent
>> indoor DTV antenna. I have tried several things. What I have
>> now is two bowties spaced about 7 inches apart on a wood dowel.
>> A peanut butter jar with rocks in it makes up the base.
>>
>> It seems to give pretty good performance. It could be better.
>> But I am wondering about a few things.
>>
>> 1) Right now all the digital transmissions are in the UHF band.
>> but in 6 weeks, three stations will move back to their VHF
>> assignments in the VHF high band.
>> How well can I expect my antenna to work in that frequency band?
>>
>> 2) I have not trimmed or dressed the twin lead from the bowties.
>> I understand that twin-lead can act as antennas. So what
>> is the best way to manage the twinlead? Cut it back? I noticed
>> that when i laid the leads together, in an attempt to make a
>> neat assembly, I got signal cancelation.
>>
>> 3) Any suggestions to improve this design?
>>
>> 4) Any suggestions for alternitive DIY designs?
>>
>> Thanks
>
> Gordon, I installed a large radio shack "tagi" type TV receiving
> antenna in my attic 10 years since the house came wired for it. I
> pointed the antenna in the general direction of the transmitting
> antennae in my area and received excellent analog reception even with
> the 5-10dB attenuation that occurs with VHF and UHF from the wooden
> roof with asphalt shingles. I even have a rotor but never had to
> really use it.
>
> Now, with DTV, the exact same antenna gives me excellent reception as
> well, just as good as analog (but of course "better" due to the nature

> of DTV broadcasts).
>
> I think for DTV that uses both UHF and VHF, you should be able to use
> the same antenna that you used with the analog system that used UHF
> and VHF and (as you know) you will probably find that the digital
> signal is better in any case. Whatever their technology, these are all
> multiband receiving antennas and the spectra for DTV and analog TV are
> much the same. There are no technical aspects that need to be covered
> here because there really is no problem.
>
> Regards,
>
> 73 de AI4QJ
>

I guess a bit of background info is in order.
Last March (2008), I decided that I didn't want to pay
$52.00 a month to Comcast for the privelidge of watching
TV or watching my family sit on their asses zoning out
in front of the Boob Tube. So I dropped Cable.
Well, some TV watching is OK. So I hooked up the Rabbit
Ears and Bowtie to watch analoge TV. Reception was poor
to lousy. The problem is that I live in a Triplex that
is oriented East-West. All the transmitters are to the
east of here (in a roughly 10 degree cluster, less than
10 miles away). I am in the western most unit of the
triplex. Which means that I am trying to receive through
the entire length of the unit. The atic space is kinda
tough to get to. The living room has no atic space,
It has a highly slopped ceiling that pretty much follows the
roof line up and over the 2nd floor.
So last June I hooked up a DTV converter box. At first I
used the rabbit ears and got the same poor reception. Then
I tried a set top loop/rabbit ears (a little bit better).
Then I pulled the loop out, and plugged in an old bow-tie
(that made things better). Then I tried the bowtie all
by itself and things got much better. That's when I
decided that a bit more directionality might help. So I
cobbled up the current setup. Two bowties, 7" apart on
a wooden dowel, set in a weighted base. And it actually
works 98% of the time. Today we had good conditions and
the SSI was in the 50s to 70s (yellow and low green)
over all the channels (except for HSN, which is off axis
and I don't care about). So far I have not been able to get
a SSI over 80.
One thing that has helped with the current setup: I am allowing
the twinleads to fall freely down the dowel. I have one
on each side and I am using bread bag clips to keep the
leads separated from each other. It has made reception
more consistent across the channels.

So today I figured I would try to build a better antenna.
I got two dowels and some 14ga wire and (using some plans off
the internet) I built a Hoverman antenna. It didn't work
one whit better than the dual bowtie I already have. At
this point, I may move the hoverman outside and see if I get
better reception there. Or, since the bowtie works so well,
just add more elements to that one.

2646. Re: Grayland QDFA Antenna Review Online

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 04:49:24 UTC
From: plimmer@telkomsa.net
Message-ID: <8e392819-8ec8-4924-a28e-0f168c6ee366@x31g2000prc.googlegroups.com>
Source record: 15970
Cross-posted to: rec.radio.shortwave,rec.radio.amateur.antenna

On May 1, 3:12 am, Guy Atkins <atkins...@gmail.com> wrote:
> I've posted my review of Dallas Lankford's antenna design, which he's
> dubbed the Grayland QDFA:
>
> http://perseus-sdr.blogspot.com/2009/04/grayland-qdfa-dallas-lankford...
>
> For DXers, an MP3 is worth a thousand pictures... to twist a phrase.
> Check out the recordings in the article to hear what a four loop delta
> flag sounds like.
>
> Guy Atkins KE7MAV
> Puyallup, WA USAwww.perseus-sdr.blogspot.com

Absolutely amazing Guy = well done to you and Dallas for your
pioneering work. I already thought the Wellbrook array was a very good
antenna, but the Grayland QDFA just blows it away. Your recordings are
truly impressive. Thanks so much.

John Plimmer, Montagu, Western Cape Province, South Africa
South 33 d 47 m 32 s, East 20 d 07 m 32 s
Icom IC-7700, Icom IC-756 PRO III with MW mods
ERGO software
Drake SW8. Sangean 803A
Sony 7600D, GE SRIII, Redsun RP2100
Antenna's RF Systems DX 1 Pro Mk II, Datong AD-270
Kiwa MW Loop.
http://www.dxing.info/about/dxers/plimmer.dx

2647. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 05:57:53 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <6cfb3256-c4f8-434d-a25c-df7a793d8796@j18g2000prm.googlegroups.com>
Source record: 15971

On Apr 30, 10:31 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On Apr 30, 7:39 pm, dfi...@nc.rr.com wrote:
>
>
>
>
>
> > Your whole wave concept of the universe (sinusoidal vibrations) is
> > only part of the picture that is very very old and outdated. You
> > ignore another component, quantum mechanics, which requires a good
> > knowledge of mathematics to conceptualize well where possible to do so
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> > account for other phenomena such as exotic energy and matter and worse
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> > is thinking outside of the box. Humans cannot conceptualize the
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> > > On Apr 18, 1:41 pm, "Dave" <no...@nowhere.com> wrote:
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> > > the Cosmos as a whole
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> > > to look for a alternative that also is agreed upon by present antenna
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> A lot of words. As far as mathematics is concerned I started with the
> Mathematics of Gauss and Maxwell and found they were mathematically
> connected. Nobody on this group agreed with that posture of mine. So
> as far as mathematics goes with this group is straight out of the
> window! Cecil tried that aproach and failed also. Now you are
> proposing that mathematics is the trail that reveals all. Sooooo, be
> my guest. I will do my best in following the trail that you have in
> mind that you feel is better than mine. My guess is that you have
> nothing in mind and are standing on sand like Andy Capp.- Hide quoted text -
>
> - Show quoted text -

Art,the only diasagreement about Gauss and Maxwell was that YOU
discovered anything NEW. Most people interested in antennas or current
flow are aware of the Gauss/ Maxwell connection. Jeez its High School
Physics.

Jimmie

2648. Crossposting Permitted to rec.radio.amateur.moderated

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 06:00:03 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/moderated/crossposting-1-1241157601@panix.com>
Source record: 15972
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.amateur.space,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/moderated/crossposting
Revision: 1.1 2009/04/12 19:42:04
Posting-Frequency: posted monthly
URL: http://www.panix.com/~rram/usenet/rram/index.html

Changes followed by "|".

After a 30-day public discussion and feedback period to gauge reader
opinions in March of 2009:

http://groups.google.com/group/rec.radio.amateur.moderated/browse_thread/thread/d7d337db35
f23326

the rec.radio.amateur.moderated Moderation Team has decided to consider
amending its charter, and permit limited simultaneous crossposting to
rec.radio.amateur.moderated and one other unmoderated
amateur-radio-related discussion newsgroup. We are currently trying
this on a temporary basis (90 days, through early July 2009), and adopt
it permanently if successful.

Approved rec.radio.amateur.* newsgroups are those that are currently
listed in the latest version of the "List of Big Eight Newsgroups" which
is crossposted monthly to news.announce.newgroups, news.groups, and
news.lists.misc.

Approved alt.radio.amateur.* and alt.ham-radio.* newsgroups are those
that have been created consistent with the suggestions in "So You Want
to Create an Alt Newsgroup" at:

http://www.faqs.org/faqs/alt-creation-guide/

Approved regional hierarchy newsgroups are those that contain either
"radio.amateur" or "ham-radio" in their names, including
uk.radio.amateur and aus.radio.amateur.misc.

We will make every reasonable effort to keep our list of approved
newsgroups up-to-date. In case we have overlooked any, and a submission
is rejected in error as a result, the rejected submitter can E-mail us
at our administrative contact address (in the signature at the bottom of
this article, and the default Reply-To for the rejection message)
requesting that it be added, and that the article be approved. We may
still choose to reject articles crossposted to any alt.* newsgroup with
an inappropriate name, including obscene language, embedded
name-calling, or encouragement of unlawful conduct.
```

Please direct any comments, questions, or criticisms to
rec-radio-amateur-moderated-request@panix.com.

2649. Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 07:34:13 UTC
From: w5net@nomail.net
Message-ID: <899lv41u7v3c1vh5r7kp4a824as69apqso@4ax.com>
Source record: 15973

Okay, since I'm installing an entirely new setup, what I'm looking for here is the best way to ground my equipment and a large center-fed wire dipole.

Lets start with the shack first. The radio and speaker are both connected to the house ground through their power cords. To provide better RF grounding, I'm thinking of everything (including radio & speaker) connected with 1" copper braid to two salted (for increased conductivity) ground rods just outside. Is that sufficient?

Next, to reduce the likelihood of lightning reaching the shack, the only thing I can think of is a lightning arrester inline to two additional salted ground rods, with the coax disconnected when not used. I don't believe RF is an issue with a dipole, so is this sufficient for lighting protection?

Give me your opinions. Am I missing something? Is there a better way?

stewart / w5net

2650. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 08:58:16 UTC
From: google@karinya.net
Message-ID: <25e1e52c-5512-4665-ab75-6036708fdd45@d19g2000prh.googlegroups.com>
Source record: 15974

On Apr 30, 11:26 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> But when there is a change in the amplitude of the
> standing wave in x, and I max is known, then determining the shift in
> phase from the equation is a no brainer, Cecil.

Jim,

I'm still reading, trying to understand the various arguments being put forward!

One thing I'm not clear about is your response to Cecil's point about phase measurements along a standing wave.

Please correct me if I've got any of this wrong: I'm picturing a half-wave antenna with a current standing wave in the shape of a (half) sine wave. My understanding is that if I could observe the current at a particular point along the antenna its amplitude would vary sinusoidally with time, and its peak amplitude would be determined by its distance from the centre of the antenna (and of course by the peak amplitude of the current at the centre).

If I could observe the current at several points along the antenna they would all be in-phase, in the sense that they would all reach peak amplitude at the same time, and cross zero at the same time. The only thing that would distinguish them would be the peak amplitude.

Cecil seems to be saying that, in a system like the one I've described, measuring the relative phase of the currents at two points along the antenna tells you nothing about their (electrical) distance apart. If I've misinterpreted him, I'm sure cecil will correct me!

Given that the currents all along the antenna are in-phase, Cecil's point seems so obvious - what am I missing? Or do you actually agree this point and I've misunderstood your position?

Regards,
Steve

2651. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 11:32:48 UTC
From: Dave <noone@nowhere.com>
Message-ID: <A5BKl.3847$b11.3211@nwrddc02.gnilink.net>
Source record: 15975

<w5net@nomail.net> wrote in message
news:899lv41u7v3c1vh5r7kp4a824as69apqso@4ax.com...
> Okay, since I'm installing an entirely new setup, what I'm looking for
> here is the best way to ground my equipment and a large center-fed
> wire dipole.
>
> Lets start with the shack first. The radio and speaker are both
> connected to the house ground through their power cords. To provide
> better RF grounding, I'm thinking of everything (including radio &
> speaker) connected with 1" copper braid to two salted (for increased
> conductivity) ground rods just outside. Is that sufficient?

Those 2 rods must be connected directly to your house power service ground with (i think) #4 or larger wire. This is a serious safety issue. This connection can NOT be through the green wire in the shack, it must be to the rod/wire that comes into the house.

Note also, this is NOT an 'RF ground'... There really is no such thing as an RF ground, ground rods are all about power line and lightning safety. Salting rods is really not necessary unless you are in exceptionally poor soil, and then its more the water you have to use to keep them moist that helps the most... even salt in dry soil can't help you.

>
> Next, to reduce the likelihood of lightning reaching the shack, the
> only thing I can think of is a lightning arrester inline to two
> additional salted ground rods, with the coax disconnected when not
> used. I don't believe RF is an issue with a dipole, so is this
> sufficient for lighting protection?

again, don't put in separate rods, all rods must be hooked together and to the service entrance ground. if you have coax lightning arresters they should be tied to the same ground as everything else where they enter the shack. disconnecting the coax from the radio can't hurt, but may not help much either.

2652. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 12:24:15 UTC
From: Dave <noone@nowhere.com>
Message-ID: <PRBKl.3853$b11.2519@nwrddc02.gnilink.net>
Source record: 15976

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:fc95f5ac-6d4d-4e19-87bf-4adf9dc1a77c@j9g2000prh.googlegroups.com...
>A lot of words. As far as mathematics is concerned I started with the
>Mathematics of Gauss and Maxwell and found they were mathematically
>connected. Nobody on this group agreed with that posture of mine.

On the contrary, it was pointed out many times that Gauss's Law is one of
the basic Maxwell Equations, so they are definately bound to each other.

>So as far as mathematics goes with this group is straight out of the
>window!

So as far as your understanding of the Maxwell Equations, you are straight
out the window.

>Cecil tried that aproach and failed also. Now you are
>proposing that mathematics is the trail that reveals all.

unfortunately art has strayed so far off the trail that he'll need a
spiritual guide to help him back to the light of day.

2653. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 12:50:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <weCKl.28302$yr3.23277@nlpi068.nbdc.sbc.com>
Source record: 15977

Jim Kelley wrote:
> Cecil Moore wrote:
> Kraus, in his book entitled "Antennas" ignores almost nothing about
> antennas.

On the contrary, when Kraus talks about standing-wave
antenna current, he ignores everything except standing
waves. Here are some quotes:

"Antennas ...", by Kraus, 3rd edition:
Re: Standing Wave Antennas

Page 187: "A sinusoidal current distribution may be
regarded as the standing wave produced by two uniform
(unattenuated) traveling waves of equal amplitude moving
in opposite directions along the antenna."

Page 464: "It is generally assumed that the current
distribution of a thin-wire antenna is sinusoidal, and
that the phase is constant over a 1/2WL interval, ..."

Both of those statements assume nothing but standing wave
current on a standing wave antenna. Have you looked at
that graph of standing wave current amplitude and phase
that Kraus provides in "Antennas"?

>> Kraus normalizes the feedpoint current to 1.0 and that's
>> good enough for me.
>
> Yes, unless of course you're talking about a real antenna with actual
> current on it. That is what I thought we were talking about. My
> recollection is that it was resonant on 75 meters, and the coil and
> stinger have very specific dimensions.

Unfortunately, the simulation of a 75m Bugcatcher loading
coil violates the EZNEC segmentation rules on 4 MHz. To
avoid objections to such, I have used the 75m Bugcatcher
loading coil form factor on a loaded 40m mobile antenna
using about 14 turns. EZNEC doesn't complain about that
6" diameter, 4 tpi form factor used on 40m. That 40m
mobile antenna file can be downloaded from:

http://www.w5dxp.com/coil426.EZ

The current at the bottom of the coil is
1.0168 amps at 0.00 degrees

The current at the top of the coil is
.8179 amps at -0.06 degrees

In this case, the delay through the coil is unrelated
to the phase shift.

>> The actual value of Imax obviously depends
>> upon the power incident upon the antenna. If one assumes a
>> current of 1.0 at the feedpoint of the coil, then one can calculate
>> the Imax at the base of the stinger given the Z0 of the loading
>> coil and the Z0 of the stinger.
>
> It might even be better to measure it - with some type of current probe
> device. Then you could solve for phase at any x or t you want.

Roy already made the necessary measurements. All he needs
is help in comprehending the results. Unfortunately, he is
still suffering from the misconception that the current
phase that he "measured" is associated with the propagation
delay through the loading when it is not.

The phase of the current in a standing wave antenna
changes hardly at all through a wire or through a loading
coil. Running the above file under EZNEC proves that
statement. Roy has even, in the past, agreed with the
EZNEC results yet he continues to ignore the nature of
the current on a standing wave antenna as reported by
EZNEC. Go figure.

As Gene Fuller asserted years ago, the phase information
in the current on a standing-wave antenna is buried in
the current magnitude measurement, not in the current
phase measurement. You seem to agree.

But Roy did NOT use the magnitude measurement to calculate
the phase shift!!! I explained how to take the ARCCOSine
of the current normalized magnitude to calculate the actual
phase shift through a wire more than 5 years ago. He called
the concept gobbledygook, plonked me, threatened to refund
my EZNEC purchase price, and revoke my customer support.

An EZNEC simulation using the *SAME* 40m loading coil above
using traveling wave current, showing an actual phase shift
of ~40 degrees is at:

http://www.w5dxp.com/coil426s.EZ

The current at the bottom of the coil is
1.0053 amps at -3.25 degrees.

The current at the top of the the coil is
.90356 amps at -43.43 degrees.

In this case, the delay through the coil is proportional
to the phase shift.

Hopefully, you or someone else who understands what I am
saying will contact Roy about his conceptual blunders.
He keeps trying to avoid the discussion of large bugcatcher
loading coils by retreating to the shelter of a small
toroidal coil which more closely matches the lumped-circuit
model along with his mistaken concepts. Unfortunately, his
small toroidal coil bears no resemblance to a 75m Texas
Bugcatcher coil which is the subject of the discussion.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2654. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 12:51:04 UTC
From: Rick <ricknj10@hotmail.com>
Message-ID: <YeCKl.1725$fy.1397@nwrddc01.gnilink.net>
Source record: 15978

Stewart,

The advice Dave gave is good.

There is no perfect grounding installation, every one is a compromise to some degree. So I will describe a "close to" optimum setup and yours will be a compromise, but try to make it the minimum compromise you can.

There are three grounds to be aware of. Safety, RF, and lightning or surge.

1. You are already covered for safety with the green wire ground.

2. You don't ground your equipment for RF grounding. Only some antennas need one, such as a vertical. Your dipole does not.

3. Lightning and surge protection ground - There should be only one grounding POINT, and it has already been established. It is the ground the power company uses. Any other ground you establish has to be connected to that one, as Dave described. The objective of surge protection is to keep the fireball outside of your house!! If you don't allow surges into your house it really simplifies the job of equipment protection.

All conductors that come into your house need to be protected with proper surge devices. That includes telephone, cable tv, your 220 volt power, and your dipole coax. Ideally you have a plate (some think it has to be copper, but it can be aluminum as well) mounted right at the ground rod and on it you have a telephone line protector, a cable tv protector, and your coax lightning arrestor. Polyphaser and others make such devices. But the most vital of all is one that goes on your power line. Why ? Because any of these conductors can bring a lightning surge into your house, but the one that is most likely is the power line. It is called a whole house protector and it usually is installed by an electrician at the circuit breaker panel. The telephone line probably has gas tubes protecting it. Cable TV will have a little block, hopefully tied in already but it doesn't have gas tubes in it so it can use help.

In the way of compromises, usually you have to bring in the coax at some other point. If you do, you ground the coax shield with the lightning arrestor to a ground rod, but as Dave described that rod has to be tied to the power company ground. Etc. etc.

If you had residual surges that you were concerned with, AFTER you did all the above, then the next step is to bond all of your equipment together and tie it to the ground point.

As you now know, if your shack is not located next to the ground point mentioned above, you have to provide a good and short conductor to that

point.

Good luck.

Rick K2XT

2655. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 13:11:32 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ae1523f3-b15d-48ce-b836-e7d68ff4c91f@b6g2000pre.googlegroups.com>
Source record: 15979

On May 1, 12:57 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On Apr 30, 10:31 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
>
>
>
> > On Apr 30, 7:39 pm, dfi...@nc.rr.com wrote:
>
> > > Your whole wave concept of the universe (sinusoidal vibrations) is
> > > only part of the picture that is very very old and outdated. You
> > > ignore another component, quantum mechanics, which requires a good
> > > knowledge of mathematics to conceptualize well where possible to do so
> > > at all. Even then, conceptualization falls apart when you try to
> > > account for other phenomena such as exotic energy and matter and worse
> > > when you go into specific theories that involve added dimensions to
> > > our 4-D concept of the universe. You have been trying for years but
> > > you will get nowhere looking for your holy grail as long as you
> > > believe you have the answers because, alas, you are the only ham who
> > > is thinking outside of the box. Humans cannot conceptualize the
> > > universe in terms of a soap bubble and most cannot even express their
> > > definition of a soap bubble in more than 3 dimensions. Only
> > > mathematics can be used to express what you are attempting and
> > > although the math may be understood, even the mathemetician or
> > > physicist who derives his concepts usually cannot conceptualize them
> > > in terms of their physical experience.
>
> > > On Apr 18, 3:42 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> > > > On Apr 18, 1:41 pm, "Dave" <no...@nowhere.com> wrote:
>
> > > > > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> > > > >news:3978d815-b3b5-45bc-933a-326bbebf63f3@h28g2000yqd.googlegroups.com...
>
> > > > > >Physics is physics, otherwise known as Classical physics
>
> > > > > only in your mind.
>
> > > > > >He used the boundary method except using only two dimensions
> > > > > >and not three which requires the dimension of time.
>
> > > > > best re-read it again, and again... Gauss' law is in 3d, it has to be in 3d
> > > > > because the electric field from a charge is not confined to a plane... never
> > > > > was and never will be. unlike your thinking art.
>

> > > > > >Vibration is resonance in terms of our Earth since it does not account
> > > > > >for all forces involved in the Universe which requires balance or
> > > > > >equilibrium.
>
> > > > > the 'universe' makes no requirements, it is the laws of physics that control
> > > > > the universe. nothing in the universe is anywhere near in equilibrium or we
> > > > > would all be cold dark cinders.
>
> > > > Only because we , humans,do not know the extent of the boundaries of
> > > > the Cosmos as a whole
> > > > You cannot deal with true equilibrium while neglecting the outer space
> > > > beyond our Universe. Study the law of partial pressures to get a
> > > > deeper understanding.
> > > > We can only deal in the Universe we know which is only one bubble or
> > > > boundary of many that constitutes the Cosmos. But let it drop David.
> > > > Yes, I have an antenna that I lifted into the rotator on my tower with
> > > > my bare hands for top band and other bands including AM! I built it
> > > > and many others on the theories and principles that I have enunciated.
> > > > Maybe my theory is incorrect and the antenna, which is a fact,sorry
> > > > about that, can be attributed to a different theory. I will continue
> > > > to look for a alternative that also is agreed upon by present antenna
> > > > computer programs which I assume to be correct as they are based on
> > > > the presence of equilibrium] with accountability for all forces,
> > > > because they duplicate the results and configuration of my rotatable
> > > > antenna. In the mean time study the thread regarding helix antennas on
> > > > QRZ antenna construction which now has over 4k hits without similar
> > > > comments such as yours.
> > > > Regards and best 73s
> > > > Art- Hide quoted text -
>
> > > > - Show quoted text -
>
> > A lot of words. As far as mathematics is concerned I started with the
> > Mathematics of Gauss and Maxwell and found they were mathematically
> > connected. Nobody on this group agreed with that posture of mine. So
> > as far as mathematics goes with this group is straight out of the
> > window! Cecil tried that aproach and failed also. Now you are
> > proposing that mathematics is the trail that reveals all. Sooooo, be
> > my guest. I will do my best in following the trail that you have in
> > mind that you feel is better than mine. My guess is that you have
> > nothing in mind and are standing on sand like Andy Capp.- Hide quoted text -
>
> > - Show quoted text -
>
> Art,the only diasagreement about Gauss and Maxwell was that YOU
> discovered anything NEW. Most people interested in antennas or current
> flow are aware of the Gauss/ Maxwell connection. Jeez its High School
> Physics.
>
> Jimmie

So it has now come down to a big lie. Years ago there was total agreement on this group that the Gauss law of Statics has no connection with the laws of Maxwell. How soon you have forgotten your auguements with Dr Davis on the same subject. Now we come to a stage where the antenna and its mathematics are real and all join to say I knew that all the time or that is nothing new. All those years of discussion, which are still in the archives as witness to the big lie now turned upon it's head.
What has your lieing gained you over the years? Do you now feel it has enhanced your reputation?

2656. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 13:38:52 UTC
From: JB <nospam@goofball.net>
Message-ID: <MXCKI.1729$fy.1632@nwrddc01.gnilink.net>
Source record: 15980

Nave

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:373e9a17-5b6a-4340-a6c6-ee5b6f87e31d@g19g2000yql.googlegroups.com...
> Laws of science are predicated of our presence in the Universe such as
> a single bubble in a bubble bath where pressure contained in a bubble
> is different to that of other bubbles. Thus pressure in a single
> bubble is analogous to a small part which constitutes the law of
> partial pressure.Thus when we on Earth view a half wave as resonant we
> have moved away from the concept of the Universe upon which boundary
> laws are founded.The concept of a half wave being resonant
> is really an approximation of equality in volved in the boundary
> aproach similar to the conversion of a three dimensional picture to
> that of a two dimension. We see this in a pendulum clock where
> friction is used as an equivalent of that which is lost in the change
> which is also relative to momentum. We can look at a pendulum clock
> and see that this results of showing the effects of equality where
> momentum has been manipulated. If a half wave was truly a resonant
> point which signifies the completion of one repeatable action we would
> expect that the pendulum only swings from top to bottom and back again
> by discarding momentum. If the bob of a pendulum is made of a long
> length with allowance for movement in three dimensional form we have a
> paradox where because of three dimensional movement the pendulum
> changes to a circular movement which does not has a repartation of
> sequences which signifies accountability because of the Corriolis
> effect which is a phenomina of Earth and not the Cosmos. i.e. similar
> to the analogy
> of partial pressures. Thus, when following the laws of Newton which
> follows the nature of the Cosmos, we must take into account the laws
> of relativity which is a recognition of change depending on what part
> of the Universe that you are viewing things from. This is a
> diffinitive metric and not an average metric as viewed by Newton.
> Since we are following the laws of the Cosmos(Newton) the metric of
> balance must also be that of the Cosmos where true resonance becomes
> equal to a period where all forces are accounted for and not that of
> half a period.
> David, science is a part of nature as is electrical and mechanical and
> chemical understanding and not a compentalization of unconnected
> sciences. It is for this reason that shows the lack of understanding
> of Newtons laws which has mislead the World into using a half period
> as a resonant point in communication.
> Best regards
> Art Unwin

2657. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 13:43:46 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <o0DKl.15734$%54.4007@nlpi070.nbdc.sbc.com>
Source record: 15981

Jim Kelley wrote:
> But when there is a change in the amplitude of the
> standing wave in x, and I max is known, then determining the shift in
> phase from the equation is a no brainer, Cecil.

Exactly! You and I are agreed that the *amplitude* holds
the key to the phase shift *through a straight wire* so
you are preaching to the choir. The phase of the total
current on a standing-wave antenna is unrelated to the
delay through the loading coil.

Unfortunately, the current "bulge" through a loading
coil causes an error in the simple "no-brainer"
calculation that you are suggesting. Some other method
of determining the phase-shift/delay through a coil is
needed.

That other method is to load the loading coil with
its characteristic impedance and measure the phase
shift in the resulting traveling wave.

For instance, in the coil426.EZ file from my web
page, the current at the bottom of the coil is
1.0168 amps at 0.00 degrees. The current at the
top of the coil is 0.8179 amps at -0.06 degrees.
The maximum current in the middle of the coil
is 1.1092 amps at -0.04 degrees.

The total current equation through a loading coil
is not a simple cosine function like it is through
a thin-wire. Determining the actual delay through a
loading coil is apparently NOT a no brainer.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2658. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 14:16:49 UTC
From: Jim Kelley <jimkelleyamps@gmail.com>
Message-ID: <5fcf8f62-59a4-4404-b300-18f941e9c066@d39g2000pra.googlegroups.com>
Source record: 15982

On May 1, 12:58 am, goo...@karinya.net wrote:
> On Apr 30, 11:26 pm, Jim Kelley <jwkel...@uci.edu> wrote:
>
> > But when there is a change in the amplitude of the
> > standing wave in x, and I max is known, then determining the shift in
> > phase from the equation is a no brainer, Cecil.
>
> Jim,
>
> I'm still reading, trying to understand the various arguments being
> put forward!
>
> One thing I'm not clear about is your response to Cecil's point about
> phase measurements along a standing wave.
>
> Please correct me if I've got any of this wrong: I'm picturing a half-
> wave antenna with a current standing wave in the shape of a (half)
> sine wave. My understanding is that if I could observe the current at
> a particular point along the antenna its amplitude would vary
> sinusoidally with time, and its peak amplitude would be determined by
> its distance from the centre of the antenna (and of course by the peak
> amplitude of the current at the centre).
>
> If I could observe the current at several points along the antenna
> they would all be in-phase, in the sense that they would all reach
> peak amplitude at the same time, and cross zero at the same time. The
> only thing that would distinguish them would be the peak amplitude.
>
> Cecil seems to be saying that, in a system like the one I've
> described, measuring the relative phase of the currents at two points
> along the antenna tells you nothing about their (electrical) distance
> apart. If I've misinterpreted him, I'm sure cecil will correct me!
>
> Given that the currents all along the antenna are in-phase, Cecil's
> point seems so obvious - what am I missing? Or do you actually agree
> this point and I've misunderstood your position?
>
> Regards,
> Steve

Hi Steve,

Yes, I think you have it right. But there's more to it. Typically we
wouldn't measure the amplitude of the standing wave envelope. We
would make a measurement of either the forward or the reflected

traveling wave, which are phase delayed along the antenna. Cecil seems to believe that he has cornered the market on making such measurements. Although he has proposed an interesting method for making the measurement, others have also made it using conventional techniques. But he lambasts them, unfairly and incorrectly. I guess you had to be there. :-)

Thanks,

ac6xg

2659. Re: Restoring a Hy-Gain Yagi...

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 15:23:25 UTC
From: Philo <philo@nospampse.be>
Message-ID: <BuEKl.4377$TA6.1403@newsfe09.ams2>
Source record: 15983

"lagagnon" <lagagnon@gmail.com> wrote in message
news:817062c5-0a05-4a05-9382-90a5fa2e54ca@x31g2000prc.googlegroups.com...
... Also, I remember many years ago there is an electrical
> joint compound stuff for using between the tubing sleeves - can anyone
> please give me some brand names of this stuff?
> Larry VE7EA

Penetrox P8a from Burndy (Framatome)
Sells in 8.5 Oz. squeeze bottels.
Last for years in a ham's toolbox.

2660. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 15:43:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <OMEKI.28305$yr3.16738@nlpi068.nbdc.sbc.com>
Source record: 15984

Jim Kelley wrote:
> Typically we
> wouldn't measure the amplitude of the standing wave envelope.

That is where you are mistaken. The total current on a
standing-wave antenna is primarily standing wave current.
What you are saying is that we wouldn't typically measure
the total current. On the contrary, total current is exactly
what we would typically measure and is exactly what w7el
measured. That's why he measured a negligible phase shift.

> We would make a measurement of either the forward or the reflected
> traveling wave, which are phase delayed along the antenna.

I'm sorry, but that is a false statement. Measuring the forward
or reflected traveling wave, which is less than 10% of the
total energy on the antenna, is exactly what is the problem.

Traveling waves on standing-wave antennas are very hard to
separate and measure. Exactly how do you propose to separate
the forward wave from the reflected wave while preserving the
amplitude and phase of each?

Hint: w7el used the total current for his "measurements".
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2661. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 15:48:25 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtf5k9$i80$1@news.jpl.nasa.gov>
Source record: 15985

w5net@nomail.net wrote:
> Okay, since I'm installing an entirely new setup, what I'm looking for
> here is the best way to ground my equipment and a large center-fed
> wire dipole.
>
> Lets start with the shack first. The radio and speaker are both
> connected to the house ground through their power cords. To provide
> better RF grounding, I'm thinking of everything (including radio &
> speaker) connected with 1" copper braid to two salted (for increased
> conductivity) ground rods just outside. Is that sufficient?

Maybe a few questions might help clarify what you're trying to do, and
what your objectives are.

What is connecting the radio and speaker to an earth ground doing? Are
you hoping to provide an alternate path if the AC line shorts to the
case inside? The green-wire ground does that very nicely.
Are you thinking that RF currents will flow from radio chassis to
ground? The RF current should be in the antenna feedline, only.

In general, an earth ground for your equipment isn't needed.
(Consider this.. an airplane has lots of radio gear, external antennas,
etc. and gets hit by lightning, and still keeps going, and there's no
connection to earth ground)

>
> Next, to reduce the likelihood of lightning reaching the shack, the
> only thing I can think of is a lightning arrester inline to two
> additional salted ground rods, with the coax disconnected when not
> used. I don't believe RF is an issue with a dipole, so is this
> sufficient for lighting protection?

Do you care about electrical code compliance?
There are specific rules in Article 800 of the NEC.

There's several issues here. What's the overall goal? protect the house
from burning down (but sacrifice the gear if needed) or protect the gear
at all costs? Protecting against direct strike on antenna or induced
voltages from nearby strikes?

House burning down is handled by using a listed antenna discharge unit
(ADU) connected to a suitable lightning dissipation ground. (salted rods
are not a suitable lightning dissipation ground, but more anon) The ADU
has to be mounted outside, close to the point of entry into the house.

The ADU will make sure that most of the lightning current is safely
conducted through something other than the flammable stuff of which your

house is built. But, it might not save your gear (for a variety of reasons).

If you want to have a better chance of saving the gear (aside from disconnecting, in which case you need to short the incoming antenna connections to the lightning ground, as well.. don't just leave it open), you want to do what is good practice for EMI/EMC anyway. Have everything referred to a common potential. In a sort of idealized scheme, you'd have your AC receptacle mounted on a conductive plate which also has the antenna feedthrough. The plate is bonded to the electrical service ground (so the breaker trips if there's a short inside your gear) and is also connected to the lightning ground (since that's where the antenna surge is going to go). A listed transient suppressor is connected to the AC line and the grounded plate as well.

Now, all the gear (radio, speaker, etc.) is all connected to this one plate, so if lightning hits, and there's a many kilovolt drop in the grounding wire, everything goes together, and you've minimized the voltage between any two conductors connected to the radio.

It's the airplane thing... the lightning hits the airplane, but everything inside the airplane stays at the same potential relative to itself so there's no problem.

You'll hear a lot about needing a big flat ribbon for lightning ground. Maybe, maybe not. Here's why. If it's any length at all, the lower inductance of the flat ribbon is still high enough that the voltage rise at the panel (L di/dt) from the lightning impulse is still hundreds or thousands of volts. If your system can take 1000V rise, it can probably take 5000V, so the absolute rise isn't as important. And, a higher inductance, higher resistance conductor actually slows down the transient a bit, which reduces the currents induced by the magnetic field. Lightning may be a huge current, but it's short duration, so it actually doesn't take a very big wire to carry it (AWG 10, for instance) without melting.

The key here is to understand what you're trying to do, and how you're doing it. Don't blindly assume that since radiotelegraph stations with beverages and longwires in 1920 used big ground rods that's what you should be doing in your shack today.

Now.. about rods, ground, salting, etc.

Your ground should be a concrete encased grounding electrode (aka Ufer ground), which is what the electrical code requires. Rods can be used for supplemental grounds, but you have to worry about making suitable connections (exothermic welds, etc.), the soil drying out, and the generally high resistance of ground rods. Salting eventually washes out, so isn't worthwhile in most cases. There are soil additives (e.g. bentonite) that are used in connection with grounding, but they work by being very hygroscopic and keeping the soil conductivity high by keeping

water in the soil. But overall, the Ufer ground is your friend: low resistance, reliable, large area (so current density is low.. no "smoking rods").

The code requires that ALL grounds be bonded together with a suitable conductor.

>
> Give me your opinions. Am I missing something? Is there a better way?
>
> stewart / w5net

2662. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 16:03:20 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <R%EKI.6467$Lr6.2998@flpi143.ffdc.sbc.com>
Source record: 15986

Cecil Moore wrote:
> I'm sorry, but that is a false statement. Measuring the forward
> or reflected traveling wave, which is less than 10% of the
> total energy on the antenna, is exactly what is the problem.

Let me amend that statement which is misleading.

The standing wave current on a standing wave antenna,
which w7el used for his measurements, accounts for 90+%
of the total current. He essentially measured total
current, not traveling wave current.

I think if you contacted Roy directly, he will admit
that fact.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2663. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 17:07:39 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4d7f19ab-88d2-4553-9a7e-04f93fbd905c@k8g2000yqn.googlegroups.com>
Source record: 15987

On May 1, 7:24 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:fc95f5ac-6d4d-4e19-87bf-4adf9dc1a77c@j9g2000prh.googlegroups.com...
>
> >A lot of words. As far as mathematics is concerned I started with the
> >Mathematics of Gauss and Maxwell and found they were mathematically
> >connected. Nobody on this group agreed with that posture of mine.
>
> On the contrary, it was pointed out many times that Gauss's Law is one of
> the basic Maxwell Equations, so they are definately bound to each other.
>
> >So as far as mathematics goes with this group is straight out of the
> >window!
>
> So as far as your understanding of the Maxwell Equations, you are straight
> out the window.
>
> >Cecil tried that aproach and failed also. Now you are
> >proposing that mathematics is the trail that reveals all.
>
> unfortunately art has strayed so far off the trail that he'll need a
> spiritual guide to help him back to the light of day.

Well David
I have now finished all my work on the antenna except for a couple of
bells and whistle that can wait for the balmy days of summer. Swr
along the frequency span
is similar to that of a log periodic with a slight waveiness but that
can be altered remotely quite easily as well as a couple of other
things.
Jim, I will be finished on the other today and will be in UPS on
Monday.
I will not test before hand but leave that up to you. Will E mail you
later with details
By the way David, the antenna will stay at ground level and I will
take the one off the tower as height is not now a consideration
I suppose I will now have to think about taking the tower down as it
is not needed anymore which will make the wife happy.
This week end is now for the wife and her birthday. After that I will
exercise the new antenna with a special look out for you.
Regards, your adversary
Art

2664. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 17:59:46 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <9e29224c-4c4e-4267-8df8-998a6cf87a79@k8g2000yqn.googlegroups.com>
Source record: 15988

On Apr 30, 7:39 pm, dfi...@nc.rr.com wrote:
> Your whole wave concept of the universe (sinusoidal vibrations) is
> only part of the picture that is very very old and outdated. You
> ignore another component, quantum mechanics, which requires a good
> knowledge of mathematics to conceptualize well where possible to do so
> at all. Even then, conceptualization falls apart when you try to
> account for other phenomena such as exotic energy and matter and worse
> when you go into specific theories that involve added dimensions to
> our 4-D concept of the universe. You have been trying for years but
> you will get nowhere looking for your holy grail as long as you
> believe you have the answers because, alas, you are the only ham who
> is thinking outside of the box. Humans cannot conceptualize the
> universe in terms of a soap bubble and most cannot even express their
> definition of a soap bubble in more than 3 dimensions. Only
> mathematics can be used to express what you are attempting and
> although the math may be understood, even the mathemetician or
> physicist who derives his concepts usually cannot conceptualize them
> in terms of their physical experience.
>
> On Apr 18, 3:42 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> > On Apr 18, 1:41 pm, "Dave" <no...@nowhere.com> wrote:
>
> > > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> > >news:3978d815-b3b5-45bc-933a-326bbebf63f3@h28g2000yqd.googlegroups.com...
>
> > > >Physics is physics, otherwise known as Classical physics
>
> > > only in your mind.
>
> > > >He used the boundary method except using only two dimensions
> > > >and not three which requires the dimension of time.
>
> > > best re-read it again, and again... Gauss' law is in 3d, it has to be in 3d
> > > because the electric field from a charge is not confined to a plane... never
> > > was and never will be. unlike your thinking art.
>
> > > >Vibration is resonance in terms of our Earth since it does not account
> > > >for all forces involved in the Universe which requires balance or
> > > >equilibrium.
>
> > > the 'universe' makes no requirements, it is the laws of physics that control
> > > the universe. nothing in the universe is anywhere near in equilibrium or we

> > > would all be cold dark cinders.
>
> > Only because we , humans,do not know the extent of the boundaries of
> > the Cosmos as a whole
> > You cannot deal with true equilibrium while neglecting the outer space
> > beyond our Universe. Study the law of partial pressures to get a
> > deeper understanding.
> > We can only deal in the Universe we know which is only one bubble or
> > boundary of many that constitutes the Cosmos. But let it drop David.
> > Yes, I have an antenna that I lifted into the rotator on my tower with
> > my bare hands for top band and other bands including AM! I built it
> > and many others on the theories and principles that I have enunciated.
> > Maybe my theory is incorrect and the antenna, which is a fact,sorry
> > about that, can be attributed to a different theory. I will continue
> > to look for a alternative that also is agreed upon by present antenna
> > computer programs which I assume to be correct as they are based on
> > the presence of equilibrium] with accountability for all forces,
> > because they duplicate the results and configuration of my rotatable
> > antenna. In the mean time study the thread regarding helix antennas on
> > QRZ antenna construction which now has over 4k hits without similar
> > comments such as yours.
> > Regards and best 73s
> > Art- Hide quoted text -
>
> > - Show quoted text -

Note
Classical physics still reigns supreme. It is what is followed by all
the masters
including Newton,Heaviside, Gauss,Maxwell,Einstein and others.
Einstein never abandoned classical physics as the subject matter of
the Universe.
If a movie is made by a director and supporting characters it is the
same movie that is viewed from the outside by an observer. Einstein
observed the same movie that was made by others from the inside
whereas Einstein viewed it from a different vantage point. Thus
Einstein stayed with the classical and certainly did not view or
describe a different movie
My antenna ideas and thoughts stay completely within the bounds of
classical physics. The speed of light is determined by the passage of
a particle when propelled by a time changing magnetic field. That same
particle emits light as it expels kinetic energy when passing to or
from different boundaries formed in the Universe under the rules or
laws of partial pressures. Thus the speed of light is the acelleration
of the formation of a magnetic field , this is the same speed imparted
on a particle when impacted with same. Light is emitted from that same
particle or mass when it expends potential energy into kinetic energy
by the laws of partial pressures. It all comes back to the
derivitation of the Grand Universal Theory, where all progress from
the four standard forces as predicted by Einstein. All the above is

that enacted by my antenna via Classical physics, no waves, just the
impact of force upon mass

2665. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 18:15:11 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtfe7h$f1e$1@news.service.uci.edu>
Source record: 15989

Cecil Moore wrote:

>> We would make a measurement of either the forward or the reflected
>> traveling wave, which are phase delayed along the antenna.
>
> I'm sorry, but that is a false statement. Measuring the forward
> or reflected traveling wave, which is less than 10% of the
> total energy on the antenna, is exactly what is the problem.

Hmmmm. Perhaps I misspoke. I should have said that's what I usually measure when I want to know how much power my antenna is radiating. I guess I don't actually know for sure what other people usually measure. But if they have a Bird wattmeter for example, that's what they usually measure too.

ac6xg

2666. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 18:55:13 UTC
From: Dave <noone@nowhere.com>
Message-ID: <IAHKl.3898$b11.137@nwrddc02.gnilink.net>
Source record: 15990

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:4d7f19ab-88d2-4553-9a7e-04f93fbd905c@k8g2000yqn.googlegroups.com...
>I have now finished all my work on the antenna except for a couple of
>bells and whistle that can wait for the balmy days of summer. Swr
>along the frequency span is similar to that of a log periodic with a slight
>waveiness but that can be altered remotely quite easily as well as a couple

well, what is the beamwidth and frequency range??

2667. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 19:01:10 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <baf91c1d-de27-4323-b6dd-724c5c443509@o18g2000yqi.googlegroups.com>
Source record: 15991

On May 1, 1:55 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:4d7f19ab-88d2-4553-9a7e-04f93fbd905c@k8g2000yqn.googlegroups.com...
>
> >I have now finished all my work on the antenna except for a couple of
> >bells and whistle that can wait for the balmy days of summer. Swr
> >along the frequency span is similar to that of a log periodic with a slight
> >waveiness but that can be altered remotely quite easily as well as a couple
>
> well, what is the beamwidth and frequency range??

What are your desires ?

2668. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 20:55:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <FIJKI.20184$as4.14275@nlpi069.nbdc.sbc.com>
Source record: 15992

Jim Kelley wrote:
> Cecil Moore wrote:
>
>>> We would make a measurement of either the forward or the reflected
>>> traveling wave, which are phase delayed along the antenna.
>>
>> I'm sorry, but that is a false statement. Measuring the forward
>> or reflected traveling wave, which is less than 10% of the
>> total energy *on the antenna*, is exactly what is the problem.
>
> Hmmmm. Perhaps I misspoke. I should have said that's what I usually
> measure when I want to know how much power my antenna is radiating. I
> guess I don't actually know for sure what other people usually measure.
> But if they have a Bird wattmeter for example, that's what they usually
> measure too.

The context, as proved by your first posting above is
measurements "along the antenna". Why do you need to divert
the issue by changing the context in midstream? Why can't
you just discuss things in context?

A Bird wattmeter will not work "along the antenna". Contrary
to what you assert above, *nobody* uses a Bird wattmeter
"along the antenna" to measure anything. A Bird wattmeter
is a 4-terminal device requiring a reference which doesn't
exist "along the antenna".

The only measurements that have been made "along the antenna"
are total current measurements. Seems the only way to measure
forward traveling waves "along the antenna" is to use a
traveling wave antenna like a terminated rhombic.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2669. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 21:16:15 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <knmmv4dv8ags3kqagc7im4lua7pign4v0c@4ax.com>
Source record: 15993

On Fri, 01 May 2009 11:15:11 -0700, Jim Kelley <jwkelley@uci.edu>
wrote:

>Cecil Moore wrote:
>
>>> We would make a measurement of either the forward or the reflected
>>> traveling wave, which are phase delayed along the antenna.
>>
>> I'm sorry, but that is a false statement. Measuring the forward
>> or reflected traveling wave, which is less than 10% of the
>> total energy on the antenna, is exactly what is the problem.
>
>Hmmmm. Perhaps I misspoke. I should have said that's what I usually
>measure when I want to know how much power my antenna is radiating. I
>guess I don't actually know for sure what other people usually measure.
>But if they have a Bird wattmeter for example, that's what they usually
>measure too.

Hi Jim,

For the sake of Steve's interest, it would be fair to point out that
no one measures current along the antenna, but many measure the
current INTO the antenna (it is/was, in fact, the preferred method for
FCC power measurements of AM Band transmitters). And by measuring
current INTO the antenna, with it tuned as a resistive load, there is
no issue of reflection. Beyond the feed point, conventional teachings
inform the FCC of expected performance.

Not that Jim has suggested it, but I find it extremely unlikely that
anyone uses a Bird Wattmeter to measure current along the length of an
antenna (of any size or in any state of match) - however, the
electronics of the Bird (and more so the Bruene SWR bridge) could make
it achievable.... except.

Except the lead making the remote measurement would introduce a
significant error as it would inhabit the fields and disturb them.

Another method is the in-line current meter with a meter readout. Then
that meter is read through binoculars. Years back, such a method was
used to kick-start a manufactured controversy which embers now
struggle for oxygen in the ashes of this thread. You will recognize
the flicker of that spark with one word: phase.

Steve, the elements of this discussion you find lacking clarity (in
what would seem an ordinary observation to you) are leveraged meanings
that are the prelude to a larger proof (sic). To follow it, you would

have to suspend your inclination to question odd re-definitions of perfectly understood concepts and invented terms that "supplement" conventional science. If you refuse to suspend your judgment and ask a question along the way, chances are that trolley will jump the tracks. Otherwise, how could something so ordinary take 300 posts to arrive nowhere?

73's
Richard Clark, KB7QHC

2670. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 21:21:58 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtfp5p$is2$1@news.service.uci.edu>
Source record: 15994

Cecil Moore wrote:
> Jim Kelley wrote:
>> Cecil Moore wrote:
>>
>>>> We would make a measurement of either the forward or the reflected
>>>> traveling wave, which are phase delayed along the antenna.
>>>
>>> I'm sorry, but that is a false statement. Measuring the forward
>>> or reflected traveling wave, which is less than 10% of the
>>> total energy *on the antenna*, is exactly what is the problem.
>>
>> Hmmmm. Perhaps I misspoke. I should have said that's what I usually
>> measure when I want to know how much power my antenna is radiating. I
>> guess I don't actually know for sure what other people usually measure.
>> But if they have a Bird wattmeter for example, that's what they
>> usually measure too.
>
> The context, as proved by your first posting above is
> measurements "along the antenna". Why do you need to divert
> the issue by changing the context in midstream? Why can't
> you just discuss things in context?
>
> A Bird wattmeter will not work "along the antenna". Contrary
> to what you assert above, *nobody* uses a Bird wattmeter
> "along the antenna" to measure anything. A Bird wattmeter
> is a 4-terminal device requiring a reference which doesn't
> exist "along the antenna".
>
> The only measurements that have been made "along the antenna"
> are total current measurements. Seems the only way to measure
> forward traveling waves "along the antenna" is to use a
> traveling wave antenna like a terminated rhombic.

Yes, bla bla bla, whine, etc.

Here is a photograph of a directional wattmeter converted to measure
current on W8JI's web page.

http://www.w8ji.com/building_a_current_meter.htm

ac6xg

2671. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 21:44:10 UTC
From: google@karinya.net
Message-ID: <2d13256f-3006-42c0-ba98-461e6f0ca0be@a7g2000yqk.googlegroups.com>
Source record: 15995

Jim & Richard,

I guess I'll retire gracefully because I'm not privy to the "history" between individuals on this Forum and I'm now not even sure when answers are to be taken seriously or as a joke.

Jim's most recent posting is a good example. We were talking about measuring current along a dipole. I assumed that would mean measuring the standing-wave current, but Jim introduced the notion of measuring travelling wave currents. When challenged as to how we might do that, we got a URL pointing us to a simple standing wave meter - it certainly can't discriminate Forward and Reverse.

From other postings I've read I take Jim to be a pretty knowledgeable guy - so this has to be a wind-up, right?

Steve

2672. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 21:50:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Z8KKl.15771$%54.1570@nlpi070.nbdc.sbc.com>
Source record: 15996

Jim Kelley wrote:
> Here is a photograph of a directional wattmeter converted to measure
> current on W8JI's web page.
> http://www.w8ji.com/building_a_current_meter.htm

IT DOES NOT MEASURE FORWARD AND REFLECTED CURRENT!
IT ONLY MEASURES TOTAL RF CURRENT!

That's exactly why w8ji "measured" a 3 nS delay
through a 100 turn, 10 TPI, 2" dia loading coil.

Dr. Corum's formulas predicts a velocity factor
of 0.033 on 4 MHz for w8ji's coil. That would
make it 37 degrees long with a delay of 26 nS.

W8JI "measured" a 3 nS delay because the standing
wave current that he used for the measurement
does not change phase relative to the source
phase in a wire or in a coil.

Do you really believe that RF current can travel
through 53 feet of coiled wire in 3 nS? Doesn't
26 nS make a lot more technical sense?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2673. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 22:01:20 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SiKKl.15773$%54.4542@nlpi070.nbdc.sbc.com>
Source record: 15997

google@karinya.net wrote:
> From other postings I've read I take Jim to be a pretty knowledgeable
> guy - so this has to be a wind-up, right?

Steve, there are a handful of people on this newsgroup
who will stoop to anything to defend W8JI's 3 nS delay
through a 75m loading coil. It's a lot like a barnyard
pecking order devoid of technical content where the
laws of physics don't seem to matter at all.

I would be glad to step aside and let you shoulder the
technical side of the argument. It would be interesting
to see if the powers that be would expose a newcomer
to the same ad hominem attacks and obfuscation as they
heap upon an old-timer like me.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2674. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 22:19:27 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <32a3e987-c9b3-40d1-bb81-8658d4cb4ca9@d14g2000yql.googlegroups.com>
Source record: 15998

On May 1, 3:55 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Jim Kelley wrote:
> > Cecil Moore wrote:
>
> >>> We would make a measurement of either the forward or the reflected
> >>> traveling wave, which are phase delayed along the antenna.
>
> >> I'm sorry, but that is a false statement. Measuring the forward
> >> or reflected traveling wave, which is less than 10% of the
> >> total energy *on the antenna*, is exactly what is the problem.
>
> > Hmmmm. Perhaps I misspoke. I should have said that's what I usually
> > measure when I want to know how much power my antenna is radiating. I
> > guess I don't actually know for sure what other people usually measure.
> > But if they have a Bird wattmeter for example, that's what they usually
> > measure too.
>
> The context, as proved by your first posting above is
> measurements "along the antenna". Why do you need to divert
> the issue by changing the context in midstream? Why can't
> you just discuss things in context?
>
> A Bird wattmeter will not work "along the antenna". Contrary
> to what you assert above, *nobody* uses a Bird wattmeter
> "along the antenna" to measure anything. A Bird wattmeter
> is a 4-terminal device requiring a reference which doesn't
> exist "along the antenna".
>
> The only measurements that have been made "along the antenna"
> are total current measurements. Seems the only way to measure
> forward traveling waves "along the antenna" is to use a
> traveling wave antenna like a terminated rhombic.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I think that is pretty accurate Cecil.
Richard took to argueing with Dr Davis working at MIT
where he argued that the Laws of Maxwell do not equate mathematically
to the laws of other masters.He was speaking in his normal Olde
English term which is talking instead of communicating until he drove
the good Doctor away in fraustration.
Richard took that as a victory for Shakesphere over the degree in
mathematics that
Dr Davis earned. Richard now believes he has advanced in the pecking

order in matters relating to Radio no less.

2675. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 22:25:07 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <9FKKl.15778$%54.8921@nlpi070.nbdc.sbc.com>
Source record: 15999

google@karinya.net wrote:
> Jim's most recent posting is a good example. We were talking about
> measuring current along a dipole. I assumed that would mean measuring
> the standing-wave current, but Jim introduced the notion of measuring
> travelling wave currents. When challenged as to how we might do that,
> we got a URL pointing us to a simple standing wave meter - it
> certainly can't discriminate Forward and Reverse.

I just happen to have the answer for anyone with EZNEC. The
following EZ files have been modified to run with the free
demo version of EZNEC.

The following inverted-V antenna is a standing-wave antenna.

http://www.w5dxp.com/inv_v.EZ

The segment currents in one half of the inverted-v look
like this:

```
EZNEC+ ver. 4.0
actual dipole 5/1/2009 5:12:15 PM
--------------- CURRENT DATA ---------------
Frequency = 3.644 MHz
Wire No. 2:
Segment Conn Magnitude (A.) Phase (Deg.)
1 W1E2 1 0.00
2 .97807 -0.33
3 .93414 -0.65
4 .86875 -0.94
5 .78291 -1.21
6 .67796 -1.46
7 .55552 -1.70
8 .41724 -1.94
9 .26438 -2.17
10 Open .09505 -2.40
```

The following inverted-V antenna is a traveling-wave antenna.

http://www.w5dxp.com/inv_vT.EZ

The segment currents in one half of the terminated inverted-v
look like this:

```
EZNEC+ ver. 4.0
actual dipole 5/1/2009 5:22:42 PM
--------------- CURRENT DATA ---------------
Frequency = 3.644 MHz
```

Wire No. 2:
Segment Conn Magnitude (A.) Phase (Deg.)
1 W1E2 1 0.00
2 .99572 -8.77
3 .99064 -18.12
4 .9799 -27.18
5 .96293 -36.30
6 .94055 -45.74
7 .91497 -55.78
8 .8899 -66.70
9 W3E1 .87103 -79.05

Wire No. 3:
Segment Conn Magnitude (A.) Phase (Deg.)
1 W2E2 .86769 -87.01

The two antennas are identical except one is terminated in
its characteristic impedance and one is not. This is the
best way I know of to illustrate the difference between
the currents on a standing-wave antenna and the currents
on a traveling-wave antenna.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2676. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 22:37:24 UTC
From: Dave <noone@nowhere.com>
Message-ID: <EQKKl.1818$fy.1094@nwrddc01.gnilink.net>
Source record: 16000

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:baf91c1d-de27-4323-b6dd-724c5c443509@o18g2000yqi.googlegroups.com...
On May 1, 1:55 pm, "Dave" <no...@nowhere.com> wrote:
>> well, what is the beamwidth and frequency range??

>What are your desires ?

I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.

2677. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 22:41:15 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtftqe$kh7$1@news.service.uci.edu>
Source record: 15902

google@karinya.net wrote:
> Jim & Richard,
>
> I guess I'll retire gracefully because I'm not privy to the "history"
> between individuals on this Forum and I'm now not even sure when
> answers are to be taken seriously or as a joke.
>
> Jim's most recent posting is a good example. We were talking about
> measuring current along a dipole. I assumed that would mean measuring
> the standing-wave current, but Jim introduced the notion of measuring
> travelling wave currents.

A point of correction here. I believe you will find the notion detailed on Cecil's web page.

> When challenged as to how we might do that,
> we got a URL pointing us to a simple standing wave meter - it
> certainly can't discriminate Forward and Reverse.

Please let me apologize for my error about the nature of the article. You are correct. The 'calibration fixture' featured in the 2nd photograph is directional. An examination of its inner workings would of course reveal circuits which measure currents and voltages in traveling waves. It is to circuits such as those that I have referred.

> From other postings I've read I take Jim to be a pretty knowledgeable
> guy - so this has to be a wind-up, right?

He's a guy with a limited amount of time and patience honestly attempting to subvert the ridiculous by stating the obvious. Most everyone here has already given up trying. Good luck to you, should you decide to try it.

ac6xg

2678. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 22:47:41 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <02umv415k8l5bo948iatgb7oik2at9hts8@4ax.com>
Source record: 15901

On Fri, 1 May 2009 14:44:10 -0700 (PDT), google@karinya.net wrote:

>Jim & Richard,
>
>I guess I'll retire gracefully because I'm not privy to the "history"
>between individuals on this Forum and I'm now not even sure when
>answers are to be taken seriously or as a joke.

Hi Steve,

You have now noted the greater contribution of comedy that inhabits these discussions. Unfortunately, and as you indicate, those thin jokes are rather in-bred.

>Jim's most recent posting is a good example. We were talking about
>measuring current along a dipole. I assumed that would mean measuring
>the standing-wave current, but Jim introduced the notion of measuring
>travelling wave currents.

Ah! The history you are unaware of (and it hides in the terms of invention that populate the theories being assembled behind the curtain) is that BOTH currents are under consideration. Unfortunately, and you have the capacity to appreciate this, some characteristics of one are migrating into the conversation of the other. Hence, we return to the keyword: phase.

In one realm, phase is pointless, in the other, it has significance. As the term phase migrates between the two, both realms' discussion are polluted.

>When challenged as to how we might do that,
>we got a URL pointing us to a simple standing wave meter -

Not really. It is a simple current meter - the page literally shouts that out.

> it
>certainly can't discriminate Forward and Reverse.

That is correct, but I mentioned such discrimination is possible from the Bruene SWR bridge. As I wrote previously, no one measures forward and reverse currents on antenna elements. Construction examples would be rare.

With care and practice as offered at the link, which attends the issues of error (largely dismissed from the greater consideration of "measurement" proofs offered), the Bruene style could similarly be achieved. It is neither a difficult concept, nor a technical hurdle.

>From other postings I've read I take Jim to be a pretty knowledgeable
>guy - so this has to be a wind-up, right?

Give it another thousand postings sprinkled over the decade to do
that. We have barely given up on fractal antennas.

73's
Richard Clark, KB7QHC

2679. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 22:54:51 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <55vmv49baapcs9mfji09k9qfjda056f0kv@4ax.com>
Source record: 15903

On Fri, 01 May 2009 22:37:24 GMT, "Dave" <noone@nowhere.com> wrote:

>I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.

At how many GHz?

The problems of poor reporting are creeping into the lack of specific
questions.

An example:
Inventor
I have this patent that proves my technology.
Questioner
It shows the reflector is smaller than the driven element;
it shows the director is larger than the driven element;
Does this prove the Yagi no longer works?
Inventor
[silence/mumbling/outrage] I didn't come here for ad hominem!

73's
Richard Clark, KB7QHC

2680. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 23:07:42 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <3hLKl.28933$YU2.9951@nlpi066.nbdc.sbc.com>
Source record: 15904

Jim Kelley wrote:
> google@karinya.net wrote:
>> Jim's most recent posting is a good example. We were talking about
>> measuring current along a dipole. I assumed that would mean measuring
>> the standing-wave current, but Jim introduced the notion of measuring
>> travelling wave currents.
>
> A point of correction here. I believe you will find the notion detailed
> on Cecil's web page.

Yes, the total measured current on a standing wave antenna
is primarily standing wave current. The total measured current
on a traveling wave antenna is primarily traveling wave
current. Please see my last posting.

> He's a guy with a limited amount of time and patience honestly
> attempting to subvert the ridiculous by stating the obvious.

Obviously, a 100 turn, 10 tpi, 2" dia 75m loading coil cannot
have the 3 nS delay that W8JI "measured". Do you disagree?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2681. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 23:29:20 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <15ab0aa0-67ad-456f-9745-ffb400fb7b60@g20g2000vba.googlegroups.com>
Source record: 15905

On May 1, 5:54 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Fri, 01 May 2009 22:37:24 GMT, "Dave" <no...@nowhere.com> wrote:
> >I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.
>
> At how many GHz?
>
> The problems of poor reporting are creeping into the lack of specific
> questions.
>
> An example:
> Inventor
> I have this patent that proves my technology.
> Questioner
> It shows the reflector is smaller than the driven element;
> it shows the director is larger than the driven element;
> Does this prove the Yagi no longer works?
> Inventor
> [silence/mumbling/outrage] I didn't come here for ad hominem!
>
> 73's
> Richard Clark, KB7QHC

A reflector can be shorter or longer than the driven element in planar
designs especially Yagis with two reflectors. Shakesphere should have
told you that !
David, the antenna covers the distance covered by a mfj 259 b which is
1.7 to around
175 mega hz. Obviously it therefore has no limits above .Below I
cannot measure unless I modify my radio outside the amateur bands, ie
reflect swr outside the ham bands. Beam widths I can't determine as I
do not have enough segments available on my optimizer program . But I
believe that can be accomplished.
Check out the SK list regularly as I may leave the answer in my will
if it mentions you.
Art

2682. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-01 23:37:19 UTC
From: Dave <noone@nowhere.com>
Message-ID: <PILKI.1832$fy.457@nwrddc01.gnilink.net>
Source record: 15906

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:15ab0aa0-67ad-456f-9745-ffb400fb7b60@g20g2000vba.googlegroups.com...
>David, the antenna covers the distance covered by a mfj 259 b which is
>1.7 to around
>175 mega hz. Obviously it therefore has no limits above .Below I
>cannot measure unless I modify my radio outside the amateur bands, ie
>reflect swr outside the ham bands. Beam widths I can't determine as I
>do not have enough segments available on my optimizer program . But I
>believe that can be accomplished.

but wait... you have built it.. you can measure the swr, so why can't you
measure the beamwidth? pick an AM broadcast station and turn it and see how
wide the pattern is.

2683. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 00:20:43 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <jh0nv4ts6jfl49k4i4rh7qd8ndkn6qdie8@4ax.com>
Source record: 15907

On Fri, 01 May 2009 15:47:41 -0700, Richard Clark <kb7qhc@comcast.net>
wrote:

>>When challenged as to how we might do that,
>>we got a URL pointing us to a simple standing wave meter -
>
>Not really. It is a simple current meter - the page literally shouts
>that out.
>
>> it
>>certainly can't discriminate Forward and Reverse.
>
>That is correct, but I mentioned such discrimination is possible from
>the Bruene SWR bridge. As I wrote previously, no one measures forward
>and reverse currents on antenna elements. Construction examples would
>be rare.
>
>With care and practice as offered at the link, which attends the
>issues of error (largely dismissed from the greater consideration of
>"measurement" proofs offered), the Bruene style could similarly be
>achieved. It is neither a difficult concept, nor a technical hurdle.

Hi Steve,

I hope you are still following the thread, because as bad as the
theory gets, there is always room for instruction - just not in phase.

I will expand on my comment of both the meter pointed to, its
construction practices, and the topic of accuracy (something everyone
offers, but can never prove).

First, as to its standing wave meter capacity (in terms of
conventional SWR meter usage). The last word, capacity, arises in
Tom's (W8JI's linked to) page:
>The lack of large metallic components minimizes stray capacitance
and
>I did not add a Faraday shield because the shield would increase the capacitance
I am now leveraging the word capacity to mean ability in contrast to
Tom's literal engineering application - and yet there is something to
be said about such a meter having the "capacity" to measure forward or
reverse products (as would a conventional SWR meter).

Capacitance is required to give the meter the capacity (ability) to
measure these currents. The Bruene SWR bridge has one side that is
driven by an inductive coupling, and the other side driven by a
capactive coupling. Through the combination of the two, the PHASES

contribute to either a reverse or forward energy product (conventionally expressed as power). Clearly the link at Tom's page illustrates half of the Bruene SWR bridge, and if that Faraday shield had been tapped (instead of discarded), the meter could have revealed the separate currents.

But nobody is interested - it offers nothing new. You will find 0 to no construction examples of this more than rare application. Futher, given its absence of discussion here in all these years, no one is actually interested in "measuring" what they have proven through their measurements.... Sorry Steve, another in-bred joke.

Moving beyond the hillarity that ensues from these obvious shortfalls of academic navel gazing; there is still the accuracy to consider.

On the face of what is offered at Tom's page, there is an immediate and irrevocable error of 5% built into the instrument as described sitting in its calibration fixture. Under other circumstances, that error could easily eclipse 100%. Suffice it to say it will never achieve better without a small book of charts.

As I offered, accuracy is often claimed, but rarely (never) proven.

This is a simple counter-proof. Tom expresses it without being aware of the implications:
>T1 is a current transformer. ...
>When the single turn primary (a whip or mast) has 1 ampere,
>the secondary will have .05 amperes (inverse of the turns ratio).
all very standard stuff as you may well note. Going on:
>This type of meter is much more reliable and linear
>than thermocouple RF ammeters, and perturbs systems much less.
This, of course, is related to the "stated but not proven" class of statements that litter the WWW (much less this thread).

Here is the literal error:
>I've applied 50 watts to a precision 50 ohm load,
>making wire current 1-ampere.

Let's assemble these statements. We have a current transformer. It is loaded with 100 Ohms with a lightly coupled linear indicator. It has 50 Watts applied through it to a load. That load is 50 Ohms.

What the meter should indicate is a current of 0.9535A if we are to believe that the 50W is absolutely accurate (it is not, but we will skip that for another discussion). The author, Tom, offers to trim the potentiometer for a 1.000A reading - WRONG!

How can this be? It is all in the statements offered above. The current transformer is also a RESISTANCE TRANSFORMER. That 100 Ohm load to its secondary is cast into the primary as an in-series 5 Ohm resistor adding to the 50 Ohm nominal load. The instrument is injecting itself into the measurement and this presents the statement:
> perturbs systems much less.

in a new light as it is quite easily demonstrated exactly how much (if we ignore other sources of error) this construction example will perturb the system and nothing is said in comparison to the technology being replaced (thermocouples). Such is poor reporting.

What becomes of that error in a short monopole whose radiation resistance is equal to that 5 Ohm insertion loss?
>FS accuracy is not required in comparison measurements,
True enough, but it then ignores what I've offered above:
>since the meter references against itself.
a 5 Ohm instrument load in series with a 5 Ohm radiator (irrespective of phase contributions due to size) will seriously change the fabric of the system. Such is the compounding of poor reporting.

If one were to claim to have made ANY current measurements, and then wholly ignore the contribution of errors, then the discussion of phase in a system such as a 5 Ohm radiator with a 5 Ohm instrument loss is going to be absurd. Such are the fruits of poor reporting.

73's
Richard Clark, KB7QHC

2684. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 00:35:36 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <43b579d6-15be-4c38-a33c-a74673560415@r13g2000vbr.googlegroups.com>
Source record: 15908

On May 1, 7:37 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:15ab0aa0-67ad-456f-9745-ffb400fb7b60@g20g2000vba.googlegroups.com...
>
> >David, the antenna covers the distance covered by a mfj 259 b which is
> >1.7 to around
> >175 mega hz. Obviously it therefore has no limits above .Below I
> >cannot measure unless I modify my radio outside the amateur bands, ie
> >reflect swr outside the ham bands. Beam widths I can't determine as I
> >do not have enough segments available on my optimizer program . But I
> >believe that can be accomplished.
>
> but wait... you have built it.. you can measure the swr, so why can't you
> measure the beamwidth? pick an AM broadcast station and turn it and see how
> wide the pattern is.

I dont know if Dave built it or not but I did and tested the beamwidth
just as you said and got 360 degrees. Rotating it had no effect at all
on signal strength. I tried it on 2M and couldnt hit the local
repeater with 1 watt normally I can reach it with 100mW. I would say
this classifies the antenna as a dummy load.

Jimmie

2685. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 00:44:33 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <up5nv4tdmr3e9td6hcckrhregn5ksq993f@4ax.com>
Source record: 15909

On Fri, 1 May 2009 17:35:36 -0700 (PDT), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>I dont know if Dave built it or not but I did and tested the beamwidth
>just as you said and got 360 degrees. Rotating it had no effect at all
>on signal strength. I tried it on 2M and couldnt hit the local
>repeater with 1 watt normally I can reach it with 100mW.

Hi Jimmie,

Try it again on Saturday and Sunday to see if its more attuned to the
Weekend force.

73's
Richard Clark, KB7QHC

2686. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 01:00:40 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <m9idne-Eyo-kBmbUnZ2dnUVZ_gidnZ2d@posted.easystreetonline>
Source record: 15910

Richard Clark wrote:
> . . .
> On the face of what is offered at Tom's page, there is an immediate
> and irrevocable error of 5% built into the instrument as described
> sitting in its calibration fixture. Under other circumstances, that
> error could easily eclipse 100%. Suffice it to say it will never
> achieve better without a small book of charts.
>
> As I offered, accuracy is often claimed, but rarely (never) proven.
>
> This is a simple counter-proof. Tom expresses it without being aware
> of the implications:
>> T1 is a current transformer. ...
>> When the single turn primary (a whip or mast) has 1 ampere,
>> the secondary will have .05 amperes (inverse of the turns ratio).

This means the turns ratio is 1:20.

> all very standard stuff as you may well note. Going on:
>> This type of meter is much more reliable and linear
>> than thermocouple RF ammeters, and perturbs systems much less.
> This, of course, is related to the "stated but not proven" class of
> statements that litter the WWW (much less this thread).
>
> Here is the literal error:
>> I've applied 50 watts to a precision 50 ohm load,
>> making wire current 1-ampere.
>
> Let's assemble these statements. We have a current transformer. It
> is loaded with 100 Ohms with a lightly coupled linear indicator. It
> has 50 Watts applied through it to a load. That load is 50 Ohms.
>
> What the meter should indicate is a current of 0.9535A if we are to
> believe that the 50W is absolutely accurate (it is not, but we will
> skip that for another discussion). The author, Tom, offers to trim
> the potentiometer for a 1.000A reading - WRONG!
>
> How can this be? It is all in the statements offered above. The
> current transformer is also a RESISTANCE TRANSFORMER. That 100 Ohm
> load to its secondary is cast into the primary as an in-series 5 Ohm
> resistor adding to the 50 Ohm nominal load.

The resistance is transformed in the ratio of N^2:1, which is 400:1 for a 20:1 turns ratio. So the insertion resistance is 100/400 = 0.25 ohm, not 5. I'm confident it works as Tom claims.

> . . .

> If one were to claim to have made ANY current measurements, and then
> wholly ignore the contribution of errors, then the discussion of phase
> in a system such as a 5 Ohm radiator with a 5 Ohm instrument loss is
> going to be absurd. Such are the fruits of poor reporting.

No, this is the fruit of poor reporting.

Roy Lewallen, W7EL

2687. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 01:20:22 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <71870c73-2ef8-452e-ab20-54e0dee9429c@q2g2000vbr.googlegroups.com>
Source record: 15911

On May 1, 7:35 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 1, 7:37 pm, "Dave" <no...@nowhere.com> wrote:
>
> > "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> >news:15ab0aa0-67ad-456f-9745-ffb400fb7b60@g20g2000vba.googlegroups.com...
>
> > >David, the antenna covers the distance covered by a mfj 259 b which is
> > >1.7 to around
> > >175 mega hz. Obviously it therefore has no limits above .Below I
> > >cannot measure unless I modify my radio outside the amateur bands, ie
> > >reflect swr outside the ham bands. Beam widths I can't determine as I
> > >do not have enough segments available on my optimizer program . But I
> > >believe that can be accomplished.
>
> > but wait... you have built it.. you can measure the swr, so why can't you
> > measure the beamwidth? pick an AM broadcast station and turn it and see how
> > wide the pattern is.
>
> I dont know if Dave built it or not but I did and tested the beamwidth
> just as you said and got 360 degrees. Rotating it had no effect at all
> on signal strength. I tried it on 2M and couldnt hit the local
> repeater with 1 watt normally I can reach it with 100mW. I would say
> this classifies the antenna as a dummy load.
>
> Jimmie

But Jimmie I have not divulged the full story. It is up to you to
determine the merits of antennas that you make without posessing the
full instructions. I was intent on sharing all with my fellow hams but
after the pilloring of the Dr who came on board so that he could help
with the problems that the group were having with mathematics and
Maxwell it appeared to me that most thought all was known about
antennas thus all is known about mine. I don't mind if you think it is
a dummy load since I do not know the merits of your education. You may
well be the same person who was argueing at the same time who admitted
to never graduating from high school.
David
I have ordered some remote relays so that I can operate the camera
scan and rotate
mechanism that I use to carry the antenna and every thing takes time.
I would also remind you that beam width can only be determined in
terms of point to point transmissions and grazing angles on ground
level antennas can create havoc.

Either way, you never did concur with the mathematics presented on this antenna so
I thought you should drop the subject all together since you seem to be my superior in these matters and feel you have proved my mathematics in error. Suffice to say I have described the abilities of my antenna and care not whether you can believe it or not until you delve more into Maxwell's laws in light of what I have stated. Rest assured that Richard still agrees with your assesment a judgement you should feel confident about. Grin
Let us move on and let somebody else take over this thread for their own use which is now coming to be the norm.
Art

2688. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 02:01:26 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49fba95d$0$18871$8046368a@newsreader.iphouse.net>
Source record: 15912

Richard Clark wrote:
> On Fri, 01 May 2009 22:37:24 GMT, "Dave" <noone@nowhere.com> wrote:
>
>> I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.
>
> At how many GHz?
>
<snip>
> Richard Clark, KB7QHC

At 160m. You can't possibly have missed that, Richard. Art has stated
it dozens of times. Maybe hundreds.

He's nuts, and very thorough about it.

tom
K0TAR

2689. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 02:09:47 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49fbab9e$0$92357$8046368a@newsreader.iphouse.net>
Source record: 15913

Art Unwin wrote:
> On May 1, 7:35 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
<snip>
>> Jimmie
>
> But Jimmie I have not divulged the full story. It is up to you to
> determine the merits of antennas that you make without posessing the
> full instructions. I was intent on sharing all with my fellow hams but
> after the pilloring of the Dr who came on board so that he could help
> with the problems that the group were having with mathematics and
<snip again>
> Art

Art

You have claimed time and time again that you have told us all we need
to know to make this antenna and its brethren.

So what have you invented now? Something new and double secret I'd bet.

tom
K0TAR

2690. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 02:46:31 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <263506e1-42f9-45eb-99c3-4523b2286bce@r3g2000vbp.googlegroups.com>
Source record: 15914

On May 1, 9:01 pm, Tom Ring <news0...@taring.org> wrote:
> Richard Clark wrote:
> > On Fri, 01 May 2009 22:37:24 GMT, "Dave" <no...@nowhere.com> wrote:
>
> >> I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.
>
> > At how many GHz?
>
> <snip>
> > Richard Clark, KB7QHC
>
> At 160m. You can't possibly have missed that, Richard. Art has stated
> it dozens of times. Maybe hundreds.
>
> He's nuts, and very thorough about it.
>
> tom
> K0TAR

Tom, you are a real misery. Are you suffering from depression?
In this group some are so dense you have to state things a hundred
times at least

2691. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 03:00:57 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <923df74c-2e0d-4ec8-b0cf-78390f075ee6@q2g2000vbr.googlegroups.com>
Source record: 15915

On May 1, 9:09 pm, Tom Ring <news0...@taring.org> wrote:
> Art Unwin wrote:
> > On May 1, 7:35 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> <snip>
> >> Jimmie
>
> > But Jimmie I have not divulged the full story. It is up to you to
> > determine the merits of antennas that you make without posessing the
> > full instructions. I was intent on sharing all with my fellow hams but
> > after the pilloring of the Dr who came on board so that he could help
> > with the problems that the group were having with mathematics and
> <snip again>
> > Art
>
> Art
>
> You have claimed time and time again that you have told us all we need
> to know to make this antenna and its brethren.
>
> So what have you invented now? Something new and double secret I'd bet.
>
> tom
> K0TAR

Many times things go out one ear and out the other, perforated ear
drums does that for you. You have not yet recanted your position on
Maxwell's laws and I told you everything. Without recanting your
position on Maxwell then all I state obviously goes in one ear and out
the other. From what you stated on Maxwell it is obvious that my logic
on every thing is not acceptable to you. From your stand point I am a
liar with respect to my antenna as you have deemed it impossible. From
a person who knows all that there is to know about antennas you
discussing it more seems quite sense
less. And yet thru the years nobody has pointed out an error in my
statements.
If one did so and me knowing that I have such an antenna I would have
to rethink my logic as to why it works the way it does. It is small
and light enough to hold out on one hand and works on 160 which you
say is impossible. And you are correct at least in your own mind since
you have stuck with planar designs despite its contradictions with
Maxwell.

2692. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 05:00:43 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <tbknv4llfgcpnl6dockjmfkk41r4fp0ntq@4ax.com>
Source record: 15916

On Fri, 01 May 2009 21:01:26 -0500, Tom Ring <news0004@taring.org>
wrote:
>>> I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.
>>
>> At how many GHz?

>At 160m.

Art is careful to never give every detail. Experience has taught him
that doing that leads to the quick thud of deflating claims. Like
Cecil, always arguing about a detail means never having to say you're
sorry.

>You can't possibly have missed that, Richard. Art has stated
>it dozens of times. Maybe hundreds.

Well, perhaps 11 times or 99, I pulled the plug on him and only hear
his postings as static behind other conversation. 10 years of his
dull needle stuck in the same worn groove has lost its -um- charm.
Same thing for Cecileo's preaching from the gallows hoping that the
last fall will give him enough swing to kick someone in the nuts.

73's
Richard Clark, KB7QHC

2693. Re: Dish reflector

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 05:28:22 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <fuknv4d6s4qk78224h62ugpgngvnrlss6r@4ax.com>
Source record: 15917

On Fri, 01 May 2009 18:00:40 -0700, Roy Lewallen <w7el@eznec.com>
wrote:

>The resistance is transformed in the ratio of N^2:1, which is 400:1 for
>a 20:1 turns ratio. So the insertion resistance is 100/400 = 0.25 ohm,

Hi Roy,

Yes, quite so.

>not 5. I'm confident it works as Tom claims.

It works as it claims is obvious, but not for SWR (neither claimed,
nor something you show interest in) - not that it should, but could.
We aren't going there either (few would as such an application has no
obvious merit). Pursuing the topic of reported phase does not appear
to be productive. A curiousity all around.

>> If one were to claim to have made ANY current measurements, and then
>> wholly ignore the contribution of errors, then the discussion of phase
>> in a system such as a 5 Ohm radiator with a 5 Ohm instrument loss is
>> going to be absurd. Such are the fruits of poor reporting.
>
>No, this is the fruit of poor reporting.

No, that you caught me in a detail with that detail mishandled by me.
Complements! The detail was quite accurate; so much so that you
accepted it (it was also sourced by Tom) in your reply. That is the
value of good reporting. The net result is a very short transaction
of point-counter point that doesn't demand 300 posts of careful
parsing. My fault was poor application, certainly. You probably
stole Art and Cecil's delight at catching me there. ;-0

73's
Richard Clark, KB7QHC

2694. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 11:24:20 UTC
From: Dave <noone@nowhere.com>
Message-ID: <E3WKl.1900$fy.573@nwrddc01.gnilink.net>
Source record: 15918

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:43b579d6-15be-4c38-a33c-a74673560415@r13g2000vbr.googlegroups.com...
On May 1, 7:37 pm, "Dave" <no...@nowhere.com> wrote:
>I dont know if Dave built it or not but I did and tested the beamwidth
>just as you said and got 360 degrees. Rotating it had no effect at all
>on signal strength. I tried it on 2M and couldnt hit the local
>repeater with 1 watt normally I can reach it with 100mW. I would say
>this classifies the antenna as a dummy load.

no, i am waiting for the final tweaked design. if you have built one to art's specs then you are probably measuring just the side/back lobes, which is a very good sign. if it has a pencil beam on 160m, then by the time it gets to 2m the beam will probably be so thin that it will be like a laser beam, so you'll have to be pointing it VERY accurately on the repeater. so go rotate it again, very slowly and carefully, and don't forget to aim it in elevation also!

2695. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 12:37:15 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5f818629-8c6a-4cc8-b03f-095fbbd1b79d@r3g2000vbp.googlegroups.com>
Source record: 15919

On May 2, 6:24 am, "Dave" <no...@nowhere.com> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:43b579d6-15be-4c38-a33c-a74673560415@r13g2000vbr.googlegroups.com...
> On May 1, 7:37 pm, "Dave" <no...@nowhere.com> wrote:
>
> >I dont know if Dave built it or not but I did and tested the beamwidth
> >just as you said and got 360 degrees. Rotating it had no effect at all
> >on signal strength. I tried it on 2M and couldnt hit the local
> >repeater with 1 watt normally I can reach it with 100mW. I would say
> >this classifies the antenna as a dummy load.
>
> no, i am waiting for the final tweaked design. if you have built one to
> art's specs then you are probably measuring just the side/back lobes, which
> is a very good sign. if it has a pencil beam on 160m, then by the time it
> gets to 2m the beam will probably be so thin that it will be like a laser
> beam, so you'll have to be pointing it VERY accurately on the repeater. so
> go rotate it again, very slowly and carefully, and don't forget to aim it in
> elevation also!

Hold on. I don.t know if I have a pencil beam as I can't measure it or
model it.
However, I don't see that as a real hurdle! The idea that the beam
width changes with frequency is beyond my ken. As for a final tweaked
design, for a ham that is an impossibility

2696. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 14:52:11 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <w6ZKl.32449$ZP4.12310@nlpi067.nbdc.sbc.com>
Source record: 15920

Cecil Moore wrote:
> Hopefully, you or someone else who understands what I am
> saying will contact Roy about his conceptual blunders.

On w8ji's web page: http://www.w8ji.com/agreeing_measurements.htm

> Roy Lewallen wrote:
>> As described in my posting on rraa of November 11,
>> the inductor "replaces" about 33 electrical degrees
>> of the antenna.

If "the inductor replaces about 33 electrical degrees
of the antenna", isn't the argument over?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2697. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 17:07:03 UTC
From: Dave <noone@nowhere.com>
Message-ID: <X4%KI.1956$fy.624@nwrddc01.gnilink.net>
Source record: 15921

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:5f818629-8c6a-4cc8-b03f-095fbbd1b79d@r3g2000vbp.googlegroups.com...
>Hold on. I don.t know if I have a pencil beam as I can't measure it or
>model it.
>However, I don't see that as a real hurdle! The idea that the beam
>width changes with frequency is beyond my ken. As for a final tweaked
>design, for a ham that is an impossibility

but you do have one that is built to your spec right? and you can turn it
by hand? so if you point it at a local AM station can you see a big
increase in signal strength and a good front-back and front-side ratio?? I
don't need a 'final'design, as you say that is impossible for a ham, but
i'll settle for something better than a 4-square for 160m that i can turn
with a normal rotor!

2698. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 17:34:12 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <127efd8b-1032-408f-a581-e5bbf29fe00f@v4g2000vba.googlegroups.com>
Source record: 15922

On May 1, 10:01 pm, Tom Ring <news0...@taring.org> wrote:
> Richard Clark wrote:
> > On Fri, 01 May 2009 22:37:24 GMT, "Dave" <no...@nowhere.com> wrote:
>
> >> I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.
>
> > At how many GHz?
>
> <snip>
> > Richard Clark, KB7QHC
>
> At 160m. You can't possibly have missed that, Richard. Art has stated
> it dozens of times. Maybe hundreds.
>
> He's nuts, and very thorough about it.
>
> tom
> K0TAR

Tom hes too thorough.
I think hes just a troll, maybe he,s the real Arts grandson or
something. Hes too consistent to be as blithrering as he acts. Maybe
he is just some old fart that likes to stir up conversation and gets a
kick out of how long of a thread he can create or how many hundred
words he can get someone to write.

His "antenna design" isnt origonal. I am not sure what the origonal
source was but I know at one time it was used as a joke among CBers.
They would describe it to some newbie and get him to build it and put
it up on a tower and make him jump through as many hoops as possible
to get it to work. So maybe he is just one of those from the CB
usegroup having fun with hams.

Jimmie

2699. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 19:48:38 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d87b6c61-2100-4707-92d6-c48971b97ef8@l5g2000vbc.googlegroups.com>
Source record: 15923

On May 2, 12:07 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:5f818629-8c6a-4cc8-b03f-095fbbd1b79d@r3g2000vbp.googlegroups.com...
>
> >Hold on. I don.t know if I have a pencil beam as I can't measure it or
> >model it.
> >However, I don't see that as a real hurdle! The idea that the beam
> >width changes with frequency is beyond my ken. As for a final tweaked
> >design, for a ham that is an impossibility
>
> but you do have one that is built to your spec right? and you can turn it
> by hand? so if you point it at a local AM station can you see a big
> increase in signal strength and a good front-back and front-side ratio?? I
> don't need a 'final'design, as you say that is impossible for a ham, but
> i'll settle for something better than a 4-square for 160m that i can turn
> with a normal rotor!

Yes you are correct. But I am waiting for some remote relays for the
rotator scan and asmith control and some other things with respect to
the antenna. Ordered from China
so it will take a bit more than a week from now, then I can do as you
say. For beam width changes I also need a adjustment contraption to
change up or down from what I have now but that is a summer job ie
bells and whistles. I have Jim's sample antenna packed and ready to go
and he is probably more experienced in that area, when I receive his
address via e mail, it is packed in a priority mail container. He can
pass on what it does but without comment with respect to construction.
Construction details are private and I am not going to disclose those
until there is a climate change.
At the moment Jim is the only guy I can trust on the newsgroup and the
only guy I have great confidence in so if he provides a finding I can
believe it as it will be specific and to the point As far as the four
square goes without change in azmith I don't believe it can compete
but we will see.
Having a get away week end at the moment with the wife antennas have
been put to one side.
Art

2700. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 19:55:43 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <cedeb75d-9741-4d7a-8c27-e1187aed0c3f@t10g2000vbg.googlegroups.com>
Source record: 15924

On May 2, 12:34 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 1, 10:01 pm, Tom Ring <news0...@taring.org> wrote:
>
>
>
> > Richard Clark wrote:
> > > On Fri, 01 May 2009 22:37:24 GMT, "Dave" <no...@nowhere.com> wrote:
>
> > >> I'll make it easy, 10 degree beamwidth and 30MHz bandwidth.
>
> > > At how many GHz?
>
> > <snip>
> > > Richard Clark, KB7QHC
>
> > At 160m. You can't possibly have missed that, Richard. Art has stated
> > it dozens of times. Maybe hundreds.
>
> > He's nuts, and very thorough about it.
>
> > tom
> > K0TAR
>
> Tom hes too thorough.
> I think hes just a troll, maybe he,s the real Arts grandson or
> something. Hes too consistent to be as blithrering as he acts. Maybe
> he is just some old fart that likes to stir up conversation and gets a
> kick out of how long of a thread he can create or how many hundred
> words he can get someone to write.
>
>   His "antenna design" isnt origonal. I am not sure what the origonal
> source was but I know at one time it was used as a joke among CBers.
> They would describe it to some newbie and get him to build it and put
> it up on a tower and make him jump through as many hoops as possible
> to get it to work. So maybe he is just one of those from the CB
> usegroup having fun with hams.
>
> Jimmie

To deliberatly try to deceive one that wishes to learn is totally
dishonest.!
I try to be a gentleman at all times by trying to walk in other
peoples shoes.

2701. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 20:00:55 UTC
From: dfinn1@nc.rr.com
Message-ID: <1e5e71fe-f36c-4587-a094-76601af39dfa@p4g2000vba.googlegroups.com>
Source record: 15925

On May 1, 9:20 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On May 1, 7:35 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> - Show quoted text -

>...I was intent on sharing all with my fellow hams but
>after the pilloring of the Dr who came on board so that he could help
>with the problems that the group were having with mathematics and
>Maxwell it appeared to me that most thought all was known about
>antennas thus all is known about mine.

Yes, I remember the "Dr." (or perhaps doctoral candidate) from MIT who jumped in and remarked that according to his model, when you mathematically 'freeze' the motion of charge to a single point in time (t = x seconds), that, glory be, Gauses law of statics (preservation of charge) still holds true according to his computer results.

This may be of mild interest to scientists who question if the charge would be preserved statically (perhaps some energy must be lost to the dynamic motion of charge for example), it had nothing to do with what you were writing. Once the "poor Dr." saw what you were up to, he politely decided to exit stage right never to return again.

2702. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 21:47:03 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <aedc4af3-110a-4ce2-b5c9-966d5c61aa53@q2g2000vbr.googlegroups.com>
Source record: 15926

On May 2, 3:00 pm, dfi...@nc.rr.com wrote:
> On May 1, 9:20 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
>
> > On May 1, 7:35 pm, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> > - Show quoted text -
> >...I was intent on sharing all with my fellow hams but
> >after the pilloring of the Dr who came on board so that he could help
> >with the problems that the group were having with mathematics and
> >Maxwell it appeared to me that most thought all was known about
> >antennas thus all is known about mine.
>
> Yes, I remember the "Dr." (or perhaps doctoral candidate) from MIT who
> jumped in and remarked that according to his model, when you
> mathematically 'freeze' the motion of charge to a single point in time
> (t = x seconds), that, glory be, Gauses law of statics (preservation
> of charge) still holds true according to his computer results.
>
> This may be of mild interest to scientists who question if the charge
> would be preserved statically (perhaps some energy must be lost to the
> dynamic motion of charge for example), it had nothing to do with what
> you were writing. Once the "poor Dr." saw what you were up to, he
> politely decided to exit stage right never to return again.

Why do you keep coming back with different names and different packs
of lies
John E Davis can be found at his home page @space,mit edu where he can
himself
tell you that you are lieing. Better still, read the archives of this
newsgroup for the truth
We all know who and what you are. You can run but you can't hide.
plonk

2703. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 21:52:30 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <74ff5009-31f6-429a-921b-006f1b093b2e@o30g2000vbc.googlegroups.com>
Source record: 15927

On May 2, 9:52 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Cecil Moore wrote:
> > Hopefully, you or someone else who understands what I am
> > saying will contact Roy about his conceptual blunders.
>
> On w8ji's web page:http://www.w8ji.com/agreeing_measurements.htm
>
> > Roy Lewallen wrote:
> >> As described in my posting on rraa of November 11,
> >> the inductor "replaces" about 33 electrical degrees
> >> of the antenna.
>
> If "the inductor replaces about 33 electrical degrees
> of the antenna", isn't the argument over?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Now , now, Cecil. you cannot equate a coil with electrical degrees of
an antenna.
Lumped loads are not included in the laws of Maxwell only distributed
loads
Art

2704. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-02 22:12:47 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49fcc58e$0$92353$8046368a@newsreader.iphouse.net>
Source record: 15928

Art Unwin wrote:
>
> Many times things go out one ear and out the other, perforated ear
> drums does that for you.

I am sorry to hear that you have perforarated eardrums. I know it's
painful.

> From what you stated on Maxwell it is obvious that my logic
> on every thing is not acceptable to you.

> And yet thru the years nobody has pointed out an error in my
> statements.

I have said nothing about Maxwell here. Ever.

> And you are correct at least in your own mind since
> you have stuck with planar designs despite its contradictions with
> Maxwell.

You have not even a tiny idea of my antenna designs, especially since
most that have been even hinted at on the internet were under my old
callsign.

tom
K0TAR

2705. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 00:30:57 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6957b750-07e8-4dec-9b92-4c39acaeb992@v17g2000vbb.googlegroups.com>
Source record: 15929

On May 2, 5:12 pm, Tom Ring <news0...@taring.org> wrote:
> Art Unwin wrote:
>
> > Many times things go out one ear and out the other, perforated ear
> > drums does that for you.
>
> I am sorry to hear that you have perforarated eardrums. I know it's
> painful.
>
> > From what you stated on Maxwell it is obvious that my logic
> > on every thing is not acceptable to you.
> > And yet thru the years nobody has pointed out an error in my
> > statements.
>
> I have said nothing about Maxwell here. Ever.
>
> > And you are correct at least in your own mind since
>
> > you have stuck with planar designs despite its contradictions with
> > Maxwell.
>
> You have not even a tiny idea of my antenna designs, especially since
> most that have been even hinted at on the internet were under my old
> callsign.
>
> tom
> K0TAR

Then why are you here. Are you a judge? You always appear depressed or
mean spirited. Maybe when you hinted on your designs you got slammed.
I am fairly sure that they did not follow the edicts of Maxwell.

2706. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 01:46:56 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49fcf7be$0$92357$8046368a@newsreader.iphouse.net>
Source record: 15930

Art Unwin wrote:
>
> Then why are you here.

I assume that was a question. You have continuing issues with punctuation.

I am here to learn about antennas. Unlike yourself.

> Are you a judge? You always appear depressed or
> mean spirited.

Nope on the judge. I merely apply "common physics" to know you are
thinking in the "imaginary plane".

And mean spirited? What have I ever said to you, as opposed to Richard,
that could be presumed to be mean spirited? Google has all of it
recorded forever more. SHOW ME!

> Maybe when you hinted on your designs you got slammed.

My designs have taken first place in several antenna competitions in the
"non-commercial" category. And sometimes first second third and fourth
in the same one. Almost always first place in every band I entered one
which was as many as 3 at an event. For lousy common style engineered
antennas,as opposed to your whizbang revolutionary ones, I've done okay
I guess.

> I am fairly sure that they did not follow the edicts of Maxwell.

I wouldn't know, since you seem to be the only one who has a copy of his
edicts.

tom
K0TAR

2707. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 11:06:33 UTC
From: Dave <noone@nowhere.com>
Message-ID: <ZUeLI.4188$b11.2651@nwrddc02.gnilink.net>
Source record: 15931

"Tom Ring" <news0004@taring.org> wrote in message
news:49fcf7be$0$92357$8046368a@newsreader.iphouse.net...
> My designs have taken first place in several antenna competitions in the
> "non-commercial" category. And sometimes first second third and fourth

please cite the competition dates and locations, sponsors, and provide a
link to results.

2708. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 14:41:33 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49fdacfd$0$18866$8046368a@newsreader.iphouse.net>
Source record: 15932

Dave wrote:
>
> please cite the competition dates and locations, sponsors, and provide a
> link to results.
>

You're awfully demanding of information for someone who probably isn't
even named Dave.

Here's one of the years that's available online.

http://www.csvhfs.org/ant/CSANT96.HTML

1st homebrew on 144, 1st overall on 220, 1st 2nd and 4th overall on 432.
The first place antenna on 432 was not usable under any normal
circumstances, and was physically a kludge. 1st on 144 and 4th on 432
were meant to be in a 2x2 array, but work adequately alone.

tom
K0TAR

2709. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 14:41:36 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <E2iLl.15628$hc1.11989@flpi150.ffdc.sbc.com>
Source record: 15933

Art Unwin wrote:
> Lumped loads are not included in the laws of Maxwell only distributed
> loads

A 75m Texas Bugcatcher loading coil certainly
qualifies as a distributed load being about
1/8WL long.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2710. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 16:40:38 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d25361ff-14f0-46d6-a105-8c85d8aa6aea@r34g2000vba.googlegroups.com>
Source record: 15934

On May 3, 9:41 am, Tom Ring <news0...@taring.org> wrote:
> Dave wrote:
>
> > please cite the competition dates and locations, sponsors, and provide a
> > link to results.
>
> You're awfully demanding of information for someone who probably isn't
> even named Dave.
>
> Here's one of the years that's available online.
>
> http://www.csvhfs.org/ant/CSANT96.HTML
>
> 1st homebrew on 144, 1st overall on 220, 1st 2nd and 4th overall on 432.
> The first place antenna on 432 was not usable under any normal
> circumstances, and was physically a kludge. 1st on 144 and 4th on 432
> were meant to be in a 2x2 array, but work adequately alone.
>
> tom
> K0TAR

Well I for one will apologize for any disrespect that I have shown
Art

2711. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 16:53:47 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <f8be68fa-5155-400f-bd64-f0348135f17c@t10g2000vbg.googlegroups.com>
Source record: 15935

On May 3, 6:06 am, "Dave" <no...@nowhere.com> wrote:
> "Tom Ring" <news0...@taring.org> wrote in message
>
> news:49fcf7be$0$92357$8046368a@newsreader.iphouse.net...
>
> > My designs have taken first place in several antenna competitions in the
> > "non-commercial" category. And sometimes first second third and fourth
>
> please cite the competition dates and locations, sponsors, and provide a
> link to results.

Aw common David,
you are much to demanding of notification of other peoples efforts
You are positioning yourself as a judge in these matters yet have
declared no credentials On my antenna I have yet to have a qso with
it. Why ? Because it is my hobby and not to impress others such as
you.When I get my interest back I will go on the air like I did before
my elmer passed,G3IGP. I stopped when I took down my 80 foot boom yagi
with 13 elements made of foil covered fishing poles and now just
experiment and use the laptop

2712. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 16:57:16 UTC
From: Mike Lucas <w5chr@bellsouth.net>
Message-ID: <XUjLI.36472$9a.30912@bignews1.bellsouth.net>
Source record: 15936

"Tom Ring" <news0004@taring.org> wrote
> 1st homebrew on 144, 1st overall on 220, 1st 2nd and 4th overall on 432.
> The first place antenna on 432 was not usable under any normal
> circumstances, and was physically a kludge. 1st on 144 and 4th on 432
> were meant to be in a 2x2 array, but work adequately alone.
>
> tom
> K0TAR

yeah, but can you build a 160 thru 10 contra-wound end-fire helical that has a VSWR less than 2.5 to1 over that range, fits in a shoebox, and has 9+ dBi gain???? :-)

Mike W5CHR
Memphis

2713. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 17:18:25 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <94290247-823c-4749-8905-aea60a466573@n4g2000vba.googlegroups.com>
Source record: 15937

On May 3, 9:41 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > Lumped loads are not included in the laws of Maxwell only distributed
> > loads
>
> A 75m Texas Bugcatcher loading coil certainly
> qualifies as a distributed load being about
> 1/8WL long.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Aw come on Cecil
It is a lumped load which is unbalanced and Maxwell demands
equilibrium ie balanced. Yes, it has distributed loading but formed
into a helix antenna
such that it includes lumped loading. Maxwell in his search for
maximum efficiency he would have added a symbol to his equations for
lumped loads . He then would have to include pitch and the like but he
just did not consider it as a consideration.
This is clearly shown with a WL verticle when for maximum effeiciency
it is tipped from right angles to the Earth ala the Corriolis effect
with which you are tampering with
when current rotates, and its introduction of a slow wave and a
different velocity factor
This is why you cannot equate lumped loads with antenna degrees, only
approximate
I have no which to debate it so I will leave it at that. Soon I will
be heading home.
No offense intended but physics is physics
Art

2714. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 18:25:26 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3d357f45-a93b-4739-998a-c5e68eff1a65@o14g2000vbo.googlegroups.com>
Source record: 15938

On May 3, 11:57 am, "Mike Lucas" <w5...@bellsouth.net> wrote:
> "Tom Ring" <news0...@taring.org> wrote
>
> > 1st homebrew on 144, 1st overall on 220, 1st 2nd and 4th overall on 432.
> > The first place antenna on 432 was not usable under any normal
> > circumstances, and was physically a kludge. 1st on 144 and 4th on 432
> > were meant to be in a 2x2 array, but work adequately alone.
>
> > tom
> > K0TAR
>
> yeah, but can you build a 160 thru 10 contra-wound end-fire helical that has
> a VSWR less than 2.5 to1 over that range, fits in a shoebox, and has 9+ dBi
> gain????   :-)
>
> Mike W5CHR
> Memphis

There is aways a first time at least for those that do, others can
stand by and jeer
and sneer from the couch. To do is to over come failure, not to be
defeated by it

2715. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 18:45:00 UTC
From: Dave <noone@nowhere.com>
Message-ID: <MCILl.4261$b11.1465@nwrddc02.gnilink.net>
Source record: 15939

"Tom Ring" <news0004@taring.org> wrote in message
news:49fdacfd$0$18866$8046368a@newsreader.iphouse.net...
> Dave wrote:
>>
>> please cite the competition dates and locations, sponsors, and provide a
>> link to results.
>>
>
> You're awfully demanding of information for someone who probably isn't
> even named Dave.
>
> Here's one of the years that's available online.
>
> http://www.csvhfs.org/ant/CSANT96.HTML
>
> 1st homebrew on 144, 1st overall on 220, 1st 2nd and 4th overall on 432.
> The first place antenna on 432 was not usable under any normal
> circumstances, and was physically a kludge. 1st on 144 and 4th on 432
> were meant to be in a 2x2 array, but work adequately alone.
>
> tom
> K0TAR

I'm sorry, i got out of sync and thought that was art bragging about his
antennas... please don't take that as an insult, i was just too quick to
reply.

2716. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 18:49:03 UTC
From: Dave <noone@nowhere.com>
Message-ID: <zGlLl.4262$b11.1243@nwrddc02.gnilink.net>
Source record: 15940

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:94290247-823c-4749-8905-aea60a466573@n4g2000vba.googlegroups.com...
>Maxwell in his search for
>maximum efficiency he would have added a symbol to his equations for
>lumped loads .

lumped loads like capacitors and inductors are indeed included in maxwell's equations, its just a matter of scale. the problem is that most modeling programs can't handle the large scale variation needed to go from a large radiator down to a small coil and still maintain the segments properly. but indeed the fields from and within the lumped elements do follow maxwell's equations.

>This is clearly shown with a WL verticle when for maximum effeiciency
>it is tipped from right angles to the Earth ala the Corriolis effect

art is a bit tipped from vertical also, but i doubt if it is a corriolis problem.

2717. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 19:15:45 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <B3mLl.4268$b11.4067@nwrddc02.gnilink.net>
Source record: 15941

Aw come on Cecil
It is a lumped load which is unbalanced and Maxwell demands
equilibrium ie balanced. Yes, it has distributed loading but formed
into a helix antenna
such that it includes lumped loading. Maxwell in his search for
maximum efficiency he would have added a symbol to his equations for
lumped loads . He then would have to include pitch and the like but he
just did not consider it as a consideration.
This is clearly shown with a WL verticle when for maximum effeiciency
it is tipped from right angles to the Earth ala the Corriolis effect
with which you are tampering with
when current rotates, and its introduction of a slow wave and a
different velocity factor
This is why you cannot equate lumped loads with antenna degrees, only
approximate
I have no which to debate it so I will leave it at that. Soon I will
be heading home.
No offense intended but physics is physics
Art

Hi Art,
Can you reference a professional journal that confirms this Coriolis (I
believe that is the correct spelling) effect w/ respect to tipped
verticals - or is this something only you have discovered?

Dale W4OP

2718. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 20:21:28 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <ZPidnUiFMqpXYWDUnZ2dnUVZ_oadnZ2d@posted.easystreetonline>
Source record: 15942

Dave wrote:
>
> lumped loads like capacitors and inductors are indeed included in
> maxwell's equations, its just a matter of scale. the problem is that
> most modeling programs can't handle the large scale variation needed to
> go from a large radiator down to a small coil and still maintain the
> segments properly. . .

I don't quite understand this. Could you elaborate please?

Roy Lewallen, W7EL

2719. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 21:57:13 UTC
From: Dave <noone@nowhere.com>
Message-ID: <ZqoLl.4282$b11.3750@nwrddc02.gnilink.net>
Source record: 15943

"Dale Parfitt" <parinc1@verizon.net> wrote in message
news:B3mLl.4268$b11.4067@nwrddc02.gnilink.net...
> Hi Art,
> Can you reference a professional journal that confirms this Coriolis (I
> believe that is the correct spelling) effect w/ respect to tipped
> verticals - or is this something only you have discovered?

thats one of art's discoveries. though it started out as being because of
the weak force instead of the coriolis effect, i think coriolis is probably
more believable... but do you have to tip them different in the north vs
south hemispheres? and what happens at the poles and equator, are they
straight up or horizontal??

2720. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 22:10:35 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8637bc9f-31af-4096-8a6a-66b4489235a0@s16g2000vbp.googlegroups.com>
Source record: 15944

On May 3, 2:15 pm, "Dale Parfitt" <pari...@verizon.net> wrote:
> Aw come on Cecil
> It is a lumped load which is unbalanced and Maxwell demands
> equilibrium ie balanced. Yes, it has distributed loading but formed
> into a helix antenna
> such that it includes lumped loading. Maxwell in his search for
> maximum efficiency he would have added a symbol to his equations for
> lumped loads . He then would have to include pitch and the like but he
> just did not consider it as a consideration.
> This is clearly shown with a WL verticle when for maximum effeiciency
> it is tipped from right angles to the Earth ala the Corriolis effect
> with which you are tampering with
> when current rotates, and its introduction of a slow wave and a
> different velocity factor
> This is why you cannot equate lumped loads with antenna degrees, only
> approximate
> I have no which to debate it so I will leave it at that. Soon I will
> be heading home.
> No offense intended but physics is physics
> Art
>
> Hi Art,
> Can you reference a professional journal that confirms this Coriolis (I
> believe that is the correct spelling) effect w/ respect to tipped
> verticals - or is this something only you have discovered?
>
> Dale W4OP

Coriolis effect is already well accepted in science.
A tipped radiator comes about when one uses optimizer style programs
based on the teaching or equations of Maxwell which accounts for ALL
forces involved within an arbitrary border ie equilibrium per the
teachings of Newton. Most people ignore the tipping arrangement for
simplicity and use programs strictly for planar forms which is an good
approximation in accounting for all generated radiation

2721. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 22:24:29 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6e996001-abec-42cb-9276-95b36abf573a@o30g2000vbc.googlegroups.com>
Source record: 15945

On May 3, 4:57 pm, "Dave" <no...@nowhere.com> wrote:
> "Dale Parfitt" <pari...@verizon.net> wrote in message
>
> news:B3mLl.4268$b11.4067@nwrddc02.gnilink.net...
>
> > Hi Art,
> > > Can you reference a professional journal that confirms this Coriolis (I
> > > believe that is the correct spelling) effect w/ respect to tipped
> > > verticals - or is this something only you have discovered?
>
> thats one of art's discoveries. though it started out as being because of
> the weak force instead of the coriolis effect, i think coriolis is probably
> more believable... but do you have to tip them different in the north vs
> south hemispheres? and what happens at the poles and equator, are they
> straight up or horizontal??

Yes you are correct David. Coriolis effect is well known where as the
weak force is not
because of resistance to change. The Coriolis effect can be observed
by looking in the toilet bowl in the different parts of our Earth.
Whether the change over effect observations alignes with the equator I
do not know as I am now home in Illinois and have no wish to travel
more today
. As for reference in professional papers take note of equations for
displacement current as stated by Maxwell which I refer to as "the
weak force" that Einstein spent so much time in looking for without
success. This force is one of the four forces alluded to in The
Standard Model of physics

2722. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 22:36:41 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Z%oLl.4287$b11.1154@nwrddc02.gnilink.net>
Source record: 15946

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:6e996001-abec-42cb-9276-95b36abf573a@o30g2000vbc.googlegroups.com...
On May 3, 4:57 pm, "Dave" <no...@nowhere.com> wrote:
>As for reference in professional papers take note of equations for
>displacement current as stated by Maxwell which I refer to as "the
>weak force" that Einstein spent so much time in looking for without
>success. This force is one of the four forces alluded to in The
>Standard Model of physics

oh, so the displacement 'current' is now the weak 'force'... please explain
how those units match up, and also how the observed range of the weak force
coincides with the wide ranging effects of the displacement current.
.

2723. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 22:43:33 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <q6pLl.1788$9w4.911@newsfe08.iad>
Source record: 15948

"Gordon" <gonzo@alltomyself.com> wrote in message
news:Xns9BFBC9D882F76greederxprtnet@194.177.98.144...

< snip >

> That's the thing. I don't have room for a ginormus
> antenna.

... but since you've built a small antenna and it's working, you may have options for _placement_ that will enhance your reception further. It may work better at one east-facing window than another and it may work best at a particular height off the floor at that "better window." (Outside TV antennas are sometimes installed after one guy walks the roof with the antenna on a stick, while somebody else monitors the signal; the antenna is finally mounted when they pick the "sweet spot," like on a tennis racket.)

Adding coaxial cable usually reduces the signal, but if your "better window" only requires a smidgeon more of coax, maybe you should try it.

2724. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 22:52:48 UTC
From: craigm <none@invalid.com>
Message-ID: <q1pLl.1787$9w4.414@newsfe08.iad>
Source record: 15947

Art Unwin wrote:

> On May 3, 4:57 pm, "Dave" <no...@nowhere.com> wrote:
>> "Dale Parfitt" <pari...@verizon.net> wrote in message
>>
>> news:B3mLl.4268$b11.4067@nwrddc02.gnilink.net...
>>
>> > Hi Art,
>> > Can you reference a professional journal that confirms this Coriolis (I
>> > believe that is the correct spelling) effect w/ respect to tipped
>> > verticals - or is this something only you have discovered?
>>
>> thats one of art's discoveries. though it started out as being because
>> of the weak force instead of the coriolis effect, i think coriolis is
>> probably more believable... but do you have to tip them different in the
>> north vs south hemispheres? and what happens at the poles and equator,
>> are they straight up or horizontal??
>
> Yes you are correct David. Coriolis effect is well known where as the
> weak force is not
> because of resistance to change. The Coriolis effect can be observed
> by looking in the toilet bowl in the different parts of our Earth.
> Whether the change over effect observations alignes with the equator I
> do not know as I am now home in Illinois and have no wish to travel
> more today

Here is further documentation on the Coriolis effect.
http://www.snopes.com/science/coriolis.asp

> . As for reference in professional papers take note of equations for
> displacement current as stated by Maxwell which I refer to as "the
> weak force" that Einstein spent so much time in looking for without
> success. This force is one of the four forces alluded to in The
> Standard Model of physics

2725. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 23:00:22 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <bmpLI.1789$9w4.167@newsfe08.iad>
Source record: 15949

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:f8be68fa-5155-400f-bd64-f0348135f17c@t10g2000vbg.googlegroups.com...

On my antenna I have yet to have a qso with
it. Why ? Because it is my hobby and not to impress others such as
you.When I get my interest back I will go on the air like I did before
my elmer passed,G3IGP. I stopped when I took down my 80 foot boom yagi
with 13 elements made of foil covered fishing poles and now just
experiment and use the laptop.
==========

I looked for this and related postings at rec.fishing.amateur.poles but came
up empty. Strange.

(Did find one guy who tries calling CQ into his tackle box.)

2726. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 23:07:35 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <ZspLl.1791$9w4.1748@newsfe08.iad>
Source record: 15950

"Dave" <noone@nowhere.com> wrote in message
news:ZqoLl.4282$b11.3750@nwrddc02.gnilink.net...
>
> "Dale Parfitt" <parinc1@verizon.net> wrote in message
> news:B3mLl.4268$b11.4067@nwrddc02.gnilink.net...
> > Hi Art,
> > Can you reference a professional journal that confirms this Coriolis (I
> > believe that is the correct spelling) effect w/ respect to tipped
> > verticals - or is this something only you have discovered?
>
> thats one of art's discoveries. though it started out as being because of
> the weak force instead of the coriolis effect, i think coriolis is
probably
> more believable... but do you have to tip them different in the north vs
> south hemispheres? and what happens at the poles and equator, are they
> straight up or horizontal??
>

Maybe this gets to Faraday Rotation? The Coriolis Effect is on particles,
not waves, right? EM waves have no mass.

2727. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 23:27:55 UTC
From: Dave <noone@nowhere.com>
Message-ID: <%LpLl.4316$b11.40@nwrddc02.gnilink.net>
Source record: 15851

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in message
news:ZspLl.1791$9w4.1748@newsfe08.iad...
>
> "Dave" <noone@nowhere.com> wrote in message
> news:ZqoLl.4282$b11.3750@nwrddc02.gnilink.net...
>>
>> "Dale Parfitt" <parinc1@verizon.net> wrote in message
>> news:B3mLl.4268$b11.4067@nwrddc02.gnilink.net...
>> > Hi Art,
>> > Can you reference a professional journal that confirms this Coriolis (I
>> > believe that is the correct spelling) effect w/ respect to tipped
>> > verticals - or is this something only you have discovered?
>>
>> thats one of art's discoveries. though it started out as being because
>> of
>> the weak force instead of the coriolis effect, i think coriolis is
> probably
>> more believable... but do you have to tip them different in the north vs
>> south hemispheres? and what happens at the poles and equator, are they
>> straight up or horizontal??
>>
>
> Maybe this gets to Faraday Rotation? The Coriolis Effect is on particles,
> not waves, right? EM waves have no mass.
>

not art's waves, they are made up of magical levitating diamagnetic
neutrinos that jump off antennas when you pass a current through them.

2728. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 23:43:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c3d4bda5-5e66-4bea-bcad-1aae41f13303@21g2000vbk.googlegroups.com>
Source record: 15852

On May 3, 5:36 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:6e996001-abec-42cb-9276-95b36abf573a@o30g2000vbc.googlegroups.com...
> On May 3, 4:57 pm, "Dave" <no...@nowhere.com> wrote:
>
> >As for reference in professional papers take note of equations for
> >displacement current as stated by Maxwell which I refer to as "the
> >weak force" that Einstein spent so much time in looking for without
> >success. This force is one of the four forces alluded to in The
> >Standard Model of physics
>
> oh, so the displacement 'current' is now the weak 'force'... please explain
> how those units match up, and also how the observed range of the weak force
> coincides with the wide ranging effects of the displacement current.
> .

You really enjoy playing the simple person. You don't find the weak
force as believable but do find Coriolis effect believable so I gave
you what you desire,
something to believe in. The basic level of time in physics is based
on the speed for a capaciter to release all its energy which is then
replaced by a magnetic field. In other words time refers to the time a
magnetic field is formed by one of the standard models
forces. When a you have a tank circuit a symbol of resonance, the
energy created by the magnetic field is really the effect of that
energy called displacement current which flow in a circular motion at
and below the maximum diameter of the radiator.
This force provides an elevating force to unbound particles at rest on
a diamagnetic surface which meets the definition of a accellerated
charge. The speed of this particle is the energy applied on impact
during the formation of the magnetic field or energy release from a
capacitor. As the unbound electron constitutes the unbound particle
the energy is enough to project the particle with spin where gravity
does not have a measured effect on it's trajectory. Gravity is the
weakest force known despite it's name and the unbound electron is
considered the physical smallest mass that exists in the Universe.
So David you have the answer as to what the "weak force" is and what
energy it contains in measurable terms that it imparts to a particle.
This IS included in Maxwell's laws where there is the reference to
time. Physics is physics.
David, I am getting very close to plonking you as you show no
indication of benefit from the answers you demand of me and others.
Art

2729. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-03 23:49:55 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <f7144c90-5605-4b07-9ea3-093f16ba7f99@h23g2000vbc.googlegroups.com>
Source record: 15853

On May 3, 6:07 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
> "Dave" <no...@nowhere.com> wrote in message
>
> news:ZqoLl.4282$b11.3750@nwrddc02.gnilink.net...
>
>
>
> > "Dale Parfitt" <pari...@verizon.net> wrote in message
> >news:B3mLl.4268$b11.4067@nwrddc02.gnilink.net...
> > > Hi Art,
> > > Can you reference a professional journal that confirms this Coriolis (I
> > > believe that is the correct spelling) effect w/ respect to tipped
> > > verticals - or is this something only you have discovered?
>
> > thats one of art's discoveries. though it started out as being because of
> > the weak force instead of the coriolis effect, i think coriolis is
> probably
> > more believable... but do you have to tip them different in the north vs
> > south hemispheres? and what happens at the poles and equator, are they
> > straight up or horizontal??
>
> Maybe this gets to Faraday Rotation? The Coriolis Effect is on particles,
> not waves, right? EM waves have no mass.

There is nothing without mass. Radiation is created by an
accelleration of charge which is mass. Particles create radiation .
Waves is also mass that is soluble acting under the influences of the
Universe.Thus a wave is a adjective that describes the applied
actions upon mass ie a noun. If a particle sits on the formation of a
wave then the two part ways.
Art

2730. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 00:02:55 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <44373b75-f3e7-4248-95b8-67585381a59d@o14g2000vbo.googlegroups.com>
Source record: 15854

On May 3, 6:00 pm, "Sal M. Onella" <salmone...@food.poisoning.org>
wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:f8be68fa-5155-400f-bd64-f0348135f17c@t10g2000vbg.googlegroups.com...
>
> On my antenna I have yet to have a qso with
> it. Why ? Because it is my hobby and not to impress others such as
> you.When I get my interest back I will go on the air like I did before
> my elmer passed,G3IGP. I stopped when I took down my 80 foot boom yagi
> with 13 elements made of foil covered fishing poles and now just
> experiment and use the laptop.
> ==
>
> I looked for this and related postings at rec.fishing.amateur.poles but came
> up empty. Strange.
>
> (Did find one guy who tries calling CQ into his tackle box.)

Stupidity is spreading! Or was it always there but only now barriers
being broken
and stupid people coming out?

2731. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 00:21:17 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49fe3526$0$92358$8046368a@newsreader.iphouse.net>
Source record: 15855

Mike Lucas wrote:
>
> yeah, but can you build a 160 thru 10 contra-wound end-fire helical that has
> a VSWR less than 2.5 to1 over that range, fits in a shoebox, and has 9+ dBi
> gain???? :-)
>
> Mike W5CHR
> Memphis
>
>

Well, that's easy to answer.

I cannot.

tom
K0TAR

2732. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 01:54:03 UTC
From: John KD5YI <groups1.jocjo@xoxy.net>
Message-ID: <%UrLl.4337$b11.851@nwrddc02.gnilink.net>
Source record: 15856

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:E2iLl.15628$hc1.11989@flpi150.ffdc.sbc.com...
> Art Unwin wrote:
>> Lumped loads are not included in the laws of Maxwell only distributed
>> loads
>
> A 75m Texas Bugcatcher loading coil certainly
> qualifies as a distributed load being about
> 1/8WL long.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

A 75m Texas Bugcatcher loading coil is about 30 feet long?

2733. Re: Resonance and equilibrium

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 03:56:48 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <1e868cc3-81ad-41ee-ae84-fac6174ce1c5@q2g2000vbr.googlegroups.com>
Source record: 15857

On May 2, 7:24 am, "Dave" <no...@nowhere.com> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM> wrote in message
>
> news:43b579d6-15be-4c38-a33c-a74673560415@r13g2000vbr.googlegroups.com...
> On May 1, 7:37 pm, "Dave" <no...@nowhere.com> wrote:
>
> >I dont know if Dave built it or not but I did and tested the beamwidth
> >just as you said and got 360 degrees. Rotating it had no effect at all
> >on signal strength. I tried it on 2M and couldnt hit the local
> >repeater with 1 watt normally I can reach it with 100mW. I would say
> >this classifies the antenna as a dummy load.
>
> no, i am waiting for the final tweaked design. if you have built one to
> art's specs then you are probably measuring just the side/back lobes, which
> is a very good sign. if it has a pencil beam on 160m, then by the time it
> gets to 2m the beam will probably be so thin that it will be like a laser
> beam, so you'll have to be pointing it VERY accurately on the repeater. so
> go rotate it again, very slowly and carefully, and don't forget to aim it in
> elevation also!

LOL I just built the thing out of boredom and the effects of having a
really nasty cold. It was obvious that the only radiation to speak of
was coming from the coax. I actually heard some pretty strong signals
on 11M with it. They were also very non-directional . When I shorted
the ends of the feedline together and connected it to my tuner it may
actually be mistaken for a viable antenna working about as well as 20
or 30 ft of wire hanging out the window hearing signals on 80 40 20
and 11. It wouldnt suprise me if Art never even built the thing.

JImmie

2734. Re: A DTV antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 05:40:54 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9C00DC89F9DFDgreederxprtnet@194.177.98.144>
Source record: 15858

"Sal M. Onella" <salmonella@food.poisoning.org> wrote in
news:q6pLl.1788$9w4.911@newsfe08.iad:

>
> "Gordon" <gonzo@alltomyself.com> wrote in message
> news:Xns9BFBC9D882F76greederxprtnet@194.177.98.144...
>
> < snip >
>
>
>> That's the thing. I don't have room for a ginormus
>> antenna.
>
> ... but since you've built a small antenna and it's working, you may
> have options for _placement_ that will enhance your reception further.
> It may work better at one east-facing window than another and it may
> work best at a particular height off the floor at that "better
> window." (Outside TV antennas are sometimes installed after one guy
> walks the roof with the antenna on a stick, while somebody else
> monitors the signal; the antenna is finally mounted when they pick
> the "sweet spot," like on a tennis racket.)
>
> Adding coaxial cable usually reduces the signal, but if your "better
> window" only requires a smidgeon more of coax, maybe you should try
> it.
>
>
>

I don't have any east facing windows. I did take the antenna outside
and put it up on a pole. Just as an experiment. I was not able to
get much better performance. But it was only 6 or 7 feet high.
I supose I could add another element. It would be a cheap enough
experiment. Eliminating the coax is a real possibility.

2735. discount wholesaler Men's women's shocks OZ NZ TL trainers

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 10:06:06 UTC
From: sneaker <shangshirt8@163.com>
Message-ID: <1a546a1a-1ee5-4542-a43c-a9b2b749dc76@w35g2000prg.googlegroups.com>
Source record: 15859
Cross-posted to: rec.radio.amateur.antenna,rec.birds

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discount wholesaler Air MAX 89 shoes
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discount wholesaler Air Max tn8 shoes
discount wholesaler Air MAX tn9 shoes (paypal payment)
(www.niketrade08.cn)
discount wholesaler MEN'S WOMEN'S Shox R5 R4 trainers
discount wholesaler Men's women's shocks OZ NZ TL trainers
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discount wholesaler Air MAX tn9 shoes (paypal payment)
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discount wholesaler MEN'S WOMEN'S Shox R5 R4 trainers
discount wholesaler Men's women's shocks OZ NZ TL trainers
For more products pls visit: www.sneaker-shop08.com

2736. cheap BOSS jeans wholesale

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 10:07:02 UTC
From: sneaker <shangshirt8@163.com>
Message-ID: <1744dea7-635f-4c61-9ef2-d71530e2735e@f1g2000prb.googlegroups.com>
Source record: 15860
Cross-posted to: rec.radio.amateur.antenna,rec.birds

jeans:
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cheap COOGI jeans wholesale (paypal payment)(www.niketrade08.cn)
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cheap true religion jeans wholesale

2737. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 11:14:04 UTC
From: noname <noname@nomail.net>
Message-ID: <dbjtv4d00gdthm5pb6cbe7lkro1pllt4dd@4ax.com>
Source record: 15861

Thanks for the replies, Dave, Rick, and Jim. Since my ideas didn't go over so well, perhaps it's best to just describe my setup and then listen to any suggestions. Since I'm not an electrical engineer, do try to keep things simple.

As I said earlier, the radio and speaker are both connected to the house ground through their power cords. I've also installed an inverted V dipole in the back yard (the only place it will fit). The center (feedpoint) of the antenna is attached to the roof on the second floor (about twenty feet above the ground) and the two ends run out to the two corners of the backyard. That's the best I can accomplish given local antenna restrictions.

My house is located on a hill with a top floor entrance and living area. Below that is another floor level with the backyard, with a basement below that.

The radio will be located in the living room on the top floor, again one floor above the backyard. The coax (RG-8X) will run out a window on the second floor to the center (feedpoint) of the antenna attached to the roof just outside (a run of roughly 15-ft).

Now, where (if any) should I add grounding to that setup? I was going to add a lightning arrester to the coax just before it enters the house (fed into two ground rods), but will forego that since none seem overly thrilled about the idea.

By the way, a Yeasu technician once recommended salting ground rods to resolve a poor grounding situation at the time, so I've been doing that ever since (can't hurt), especially during the dry summer months. Adding water is pretty obvious, so didn't think I needed to spell that out, Dave.

stewart / w5net

2738. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 11:45:43 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <JzALl.13395$jZ1.90@flpi144.ffdc.sbc.com>
Source record: 15862

John KD5YI wrote:
> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>> A 75m Texas Bugcatcher loading coil certainly
>> qualifies as a distributed load being about
>> 1/8WL long.
>
> A 75m Texas Bugcatcher loading coil is about 30 feet long?

Electrically, yes. Its velocity factor calculates
out to be about 0.02 at 4 MHz and it is physically
0.563 feet long. 0.563'/0.02 = ~28 feet.

At 4 MHz, a 75m Texas Bugcatcher coil replaces ~28 feet
of wire in the antenna. That is ~41 degrees at 4 MHz.
(Note there is about 44 feet of wire in a 75m Texas
Bugcatcher loading coil.)

Equation 32 in the following IEEE paper is what I used
to calculate the velocity factor of the loading coil.

http://www.ttr.com/TELSIKS2001-MASTER-1.pdf
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2739. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 12:51:29 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <324315c0-6fd6-419a-aced-d19c6aa3f6b4@n8g2000vbb.googlegroups.com>
Source record: 15863

On May 4, 6:45 am, Cecil Moore <nos...@w5dxp.com> wrote:
> John KD5YI wrote:
> > "Cecil Moore" <nos...@w5dxp.com> wrote in message
> >> A 75m Texas Bugcatcher loading coil certainly
> >> qualifies as a distributed load being about
> >> 1/8WL long.
>
> > A 75m Texas Bugcatcher loading coil is about 30 feet long?
>
> *Electrically*, yes. Its velocity factor calculates
> out to be about 0.02 at 4 MHz and it is physically
> 0.563 feet long. 0.563'/0.02 = ~28 feet.
>
> At 4 MHz, a 75m Texas Bugcatcher coil replaces ~28 feet
> of wire in the antenna. That is ~41 degrees at 4 MHz.
> (Note there is about 44 feet of wire in a 75m Texas
> Bugcatcher loading coil.)
>
> Equation 32 in the following IEEE paper is what I used
> to calculate the velocity factor of the loading coil.
>
> http://www.ttr.com/TELSIKS2001-MASTER-1.pdf
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

In part II of the said Corum paper it clearly states that there is no rigourous solution to helicals supplied by Maxwells laws. If this is the case I suspect that Corum made some approximations. This is the point that I am making with respect to Maxwell's law's and lumped loads.

2740. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 13:08:14 UTC
From: dave <dave@dave.dave>
Message-ID: <KJqdnWszVOIidWPUnZ2dnUVZ_jCdnZ2d@earthlink.com>
Source record: 15864

noname wrote:
> Thanks for the replies, Dave, Rick, and Jim. Since my ideas didn't go
> over so well, perhaps it's best to just describe my setup and then
> listen to any suggestions. Since I'm not an electrical engineer, do
> try to keep things simple.
>
> As I said earlier, the radio and speaker are both connected to the
> house ground through their power cords. I've also installed an
> inverted V dipole in the back yard (the only place it will fit). The
> center (feedpoint) of the antenna is attached to the roof on the
> second floor (about twenty feet above the ground) and the two ends run
> out to the two corners of the backyard. That's the best I can
> accomplish given local antenna restrictions.
>
> My house is located on a hill with a top floor entrance and living
> area. Below that is another floor level with the backyard, with a
> basement below that.
>
> The radio will be located in the living room on the top floor, again
> one floor above the backyard. The coax (RG-8X) will run out a window
> on the second floor to the center (feedpoint) of the antenna attached
> to the roof just outside (a run of roughly 15-ft).
>
> Now, where (if any) should I add grounding to that setup? I was going
> to add a lightning arrester to the coax just before it enters the
> house (fed into two ground rods), but will forego that since none seem
> overly thrilled about the idea.
>
> By the way, a Yeasu technician once recommended salting ground rods to
> resolve a poor grounding situation at the time, so I've been doing
> that ever since (can't hurt), especially during the dry summer months.
> Adding water is pretty obvious, so didn't think I needed to spell that
> out, Dave.
>
> stewart / w5net

Do you have metal water pipes upstairs with continuity to a spot near the ground rods downstairs? If so you can run a strap to your shack upstairs, and another from the water pipe to the ground rods downstairs.

You need an RF ground (as the safety ground is the 3 prong Edison.) MFJ makes an artificial ground. Do you use a balun at the antenna feedpoint? How do you tune the inverted-V?

2741. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 13:17:13 UTC
From: John KD5YI <groups1.jocjo@xoxy.net>
Message-ID: <tVBLI.4373$b11.3391@nwrddc02.gnilink.net>
Source record: 15865

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:JzALl.13395$jZ1.90@flpi144.ffdc.sbc.com...
> John KD5YI wrote:
>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>> A 75m Texas Bugcatcher loading coil certainly
>>> qualifies as a distributed load being about
>>> 1/8WL long.
>>
>> A 75m Texas Bugcatcher loading coil is about 30 feet long?
>
> *Electrically*, yes. Its velocity factor calculates
> out to be about 0.02 at 4 MHz and it is physically
> 0.563 feet long. 0.563'/0.02 = ~28 feet.
>
> At 4 MHz, a 75m Texas Bugcatcher coil replaces ~28 feet
> of wire in the antenna. That is ~41 degrees at 4 MHz.
> (Note there is about 44 feet of wire in a 75m Texas
> Bugcatcher loading coil.)

Using your argument, I could buy an inductor wound on a toroid core and
claim it is a "distributed" component because it "electrically" replaces
some calculated "degrees" or "feet" of wire at some frequency.

You appear to be trying to make lumped components into distributed
components to suit your arguments. Shame on you.

John

2742. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 14:57:43 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <57e044b7-40ed-4fcc-9700-20de13ed5fcc@q2g2000vbr.googlegroups.com>
Source record: 15866

On May 4, 8:17 am, "John KD5YI" <groups1.jo...@xoxy.net> wrote:
> "Cecil Moore" <nos...@w5dxp.com> wrote in message
>
> news:JzALl.13395$jZ1.90@flpi144.ffdc.sbc.com...
>
>
>
> > John KD5YI wrote:
> >> "Cecil Moore" <nos...@w5dxp.com> wrote in message
> >>> A 75m Texas Bugcatcher loading coil certainly
> >>> qualifies as a distributed load being about
> >>> 1/8WL long.
>
> >> A 75m Texas Bugcatcher loading coil is about 30 feet long?
>
> > *Electrically*, yes. Its velocity factor calculates
> > out to be about 0.02 at 4 MHz and it is physically
> > 0.563 feet long. 0.563'/0.02 = ~28 feet.
>
> > At 4 MHz, a 75m Texas Bugcatcher coil replaces ~28 feet
> > of wire in the antenna. That is ~41 degrees at 4 MHz.
> > (Note there is about 44 feet of wire in a 75m Texas
> > Bugcatcher loading coil.)
>
> Using your argument, I could buy an inductor wound on a toroid core and
> claim it is a "distributed" component because it "electrically" replaces
> some calculated "degrees" or "feet" of wire at some frequency.
>
> You appear to be trying to make lumped components into distributed
> components to suit your arguments. Shame on you.
>
> John

Good for you John, You have no idea of the years I have stated such to
the sneers of this group. They just don't accept change!

2743. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 15:01:14 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <49FF033A.2090908@jpl.nasa.gov>
Source record: 15868

noname wrote:
> Thanks for the replies, Dave, Rick, and Jim. Since my ideas didn't go
> over so well, perhaps it's best to just describe my setup and then
> listen to any suggestions. Since I'm not an electrical engineer, do
> try to keep things simple.
>
> As I said earlier, the radio and speaker are both connected to the
> house ground through their power cords. I've also installed an
> inverted V dipole in the back yard (the only place it will fit). The
> center (feedpoint) of the antenna is attached to the roof on the
> second floor (about twenty feet above the ground) and the two ends run
> out to the two corners of the backyard. That's the best I can
> accomplish given local antenna restrictions.

That's fine.

>
> My house is located on a hill with a top floor entrance and living
> area. Below that is another floor level with the backyard, with a
> basement below that.

Where are you located? The recommendation will vary substantially if
you are in Southern California (almost no lightning) or Orlando Florida
(Lightning capital of the US, for all intents and purposes).

>
> The radio will be located in the living room on the top floor, again
> one floor above the backyard. The coax (RG-8X) will run out a window
> on the second floor to the center (feedpoint) of the antenna attached
> to the roof just outside (a run of roughly 15-ft).
>
> Now, where (if any) should I add grounding to that setup? I was going
> to add a lightning arrester to the coax just before it enters the
> house (fed into two ground rods), but will forego that since none seem
> overly thrilled about the idea.

The electrical code requires some sort of antenna discharge unit, but to
be honest, most ham antenna installations aren't code compliant. BUT,
if you want to do a half measure of some sort, do what is done for cable
TV and satellite dishes. Put a grounding block at the entrance, and at
least make sure the shield is connected to ground. The grounding block
should be connected to the house's bonding system by a reasonably direct
connection with a single conductor. Get a copy of the "Low Voltage
Handbook" from Mike Holt (it's a free download from
http://www.mikeholt.com/) and it goes over all this kind of stuff.

Hook up a coax switch so that you can disconnect the radio and short the coax when you're not using it.

Is the radio AC powered, or is it DC powered, and the power supply is grounded with the third prong?

>
> By the way, a Yeasu technician once recommended salting ground rods to
> resolve a poor grounding situation at the time, so I've been doing
> that ever since (can't hurt), especially during the dry summer months.
> Adding water is pretty obvious, so didn't think I needed to spell that
> out, Dave.

Hmm. and that Yaesu technician has what training and experience in grounding systems for lightning protection (other than what's printed in the front of the manuals)?

And did the salting improve anything? if so, what? adding grounding is almost always the wrong solution to operational problems (RFI, for instance), since the purpose of grounding systems is to deal with abnormal events (short circuits, transients, etc.)

If you've got RFI issues, you need to read the Jim Brown (K9YC) writeup on RFI, before you start hammering in ground rods and sowing the fields with salt. http://www.audiosystemsgroup.com/RFI-Ham.pdf

>
> stewart / w5net

2744. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 15:05:54 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtn08i$kc1$1@news.jpl.nasa.gov>
Source record: 15869

d
>
> Do you have metal water pipes upstairs with continuity to a spot near
> the ground rods downstairs? If so you can run a strap to your shack
> upstairs, and another from the water pipe to the ground rods downstairs.

bad plan.

1) Water pipes may or may not have good electrical conductivity.
2) You're asking for leakage current to flow in the pipes: corrosion is
one possibility, shocks to people touching the pipes or plumbing is another.
3) If you also have the third wire ground to chassis, good chance you've
now created a big receiving loop consisting of the pipes and your house
electrical systems. Not good.

4) Using plumbing systems for electrical safety bonding/grounding is not
recommended in any of the recent editions of the electrical code, and is
certainly not a good idea for RF currents.

>
> You need an RF ground (as the safety ground is the 3 prong Edison.) MFJ
> makes an artificial ground.

If it's a coax fed antenna, there should be no need for any sort of RF
ground in the shack.

Do you use a balun at the antenna
> feedpoint? How do you tune the inverted-V?

Good RF chokes on the coax at the feedpoint and at the point of entry
would go a long way to eliminating any "RF in the shack" problems. A
couple 2.4" 31 mix cores with half a dozen turns on them, for instance.

Whether the V is tuned or not won't have any effect on RFI or grounding.

2745. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 15:32:46 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <zUDLI.9594$im1.3749@nlpi061.nbdc.sbc.com>
Source record: 15867

Art Unwin wrote:
> I suspect that Corum made some approximations.

Of course, they are approximations. The wire
diameter doesn't even appear in the equation.
Quoting the Corum paper:

"A useful engineering *approximation* has
been found for the fundamental resonance of
helices ...".

"... an *approximation* for M has been determined
by Kandoian and Sichak which is appropriate for
quarter-wave resonance ... for helices with
diameters considerably less than a free-space
wavelength".

"We have found that this expression gives acceptable
results (errors less than 10%) for most practical
applications that involve wave propagation on
helical resonators ...".
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2746. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 16:19:48 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ar4uv4h1f9ok8u3bj2cg4tbm4v14pmt9ng@4ax.com>
Source record: 15871

On Mon, 04 May 2009 13:17:13 GMT, "John KD5YI"
<groups1.jocjo@xoxy.net> wrote:

>>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>>> A 75m Texas Bugcatcher loading coil certainly
>>>> qualifies as a distributed load being about
>>> A 75m Texas Bugcatcher loading coil is about 30 feet long?
>> *Electrically*, yes. Its velocity factor calculates
>You appear to be trying to make lumped components into distributed
>components to suit your arguments. Shame on you.

Hi John,

All the right words are there. They are expressed in a familiar
order. There is the *implication by special marking* that can be used
equally as a point of reversed qualification - the back exit.

So, in retrospect (a very short one of the six lines above), this is
obviously a problem of you don't understand what you were thinking
when you asked your question. Unfortunately, you could have as easily
agreed only to have Cecil point out, through the same chain of
discussion above, you are wrong - you don't understand what you were
thinking.

73's
Richard Clark, KB7QHC

2747. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 16:20:26 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <gBELI.16214$%54.5334@nlpi070.nbdc.sbc.com>
Source record: 15870

John KD5YI wrote:
> Using your argument, I could buy an inductor wound on a toroid core and
> claim it is a "distributed" component because it "electrically" replaces
> some calculated "degrees" or "feet" of wire at some frequency.

Sorry, that's not true. Toroidal inductors are not covered
by my argument adopted from Dr. Corum's IEEE paper. Toroidal
inductors are not being discussed at all - except by people
afraid to discuss large air-core loading coils. My argument
(based on Dr. Corum's assertions) apply *only* to large,
air-core coils that meet the conditions listed on page 4 of
Dr. Corum's paper at:

http://www.ttr.com/TELSIKS2001-MASTER-1.pdf

A 75m Texas Bugcatcher coil is an example of the type
of air-core loading coil that I am talking about. It's
about 6" diameter, 4 tpi, and 6.75" long. Dr. Corum's
equations indicate a VF of ~0.02 for such a coil used
on 4 MHz which makes it electrically about 28 degrees
long.

> You appear to be trying to make lumped components into distributed
> components to suit your arguments. Shame on you.

No, just the opposite. I am trying to keep others
from considering large air-core distributed network
loading coils to be lumped components (which they
obviously are not). Dr. Corum says any coil electrically
longer than 15 degrees (0.04WL) needs to be treated
as a distrubuted network, not as a lumped-circuit.

Here are some of Dr. Corum's class notes:

http://www.ttr.com/corum/index.htm

Here's a quote: "In the following note, we will show
why one needs transmission line analysis (or Maxwell's
equations) to model these electrically distributed
structures. Lumped circuit theory fails because it's
a *theory* whose presuppositions are inadequate. Every
EE in the world was warned of this in their first
sophomore circuits course."

Yet W8JI reports a 3 nS delay through a 100 turn, 10"
long, 2" dia loading coil on 4 MHz, an obvious
impossibility since such a large, long air-core inductor

is nowhere near to being a lumped-inductor. At ~37 degrees, based on Dr. Corum's equations, it is more than double the 15 degrees that is the point at which the lumped-circuit model starts to fail.

37 degrees gives a delay of ~25 nS on 4 MHz. That's approximately what one would measure if one used a traveling wave for the measurement instead of a standing wave (which doesn't change phase with distance). W8JI's "measurements" were off by almost a magnitude.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2748. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 16:30:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <jg5uv4hreni0e25hlq4rv3m52dueoujj1o@4ax.com>
Source record: 15872

On Mon, 04 May 2009 13:14:04 +0200, noname <noname@nomail.net> wrote:

>Now, where (if any) should I add grounding to that setup? I was going
>to add a lightning arrester to the coax just before it enters the
>house (fed into two ground rods), but will forego that since none seem
>overly thrilled about the idea.

Hi Stewart,

A very good description of your set-up. You are already grounded through a the haphazard path of your AC outlet - if you chose to use three prong connections, if your outlet is in fact grounded, if your equipment actually has a safety ground to chassis. A lot of "ifs," hence my use of "haphazard."

By deliberately adding a ground wire going to an ad-hoc ground rod, you can easily introduce problems. The worst of which could be lethal, but that extreme is unlikely (except it might only be resolved at the coroner's inquest).

Consult code for grounding requirements.

The minor problems include ground loops that can plague your listening and/or your contacts asking what that strange music is in the background of your transmission. The loops can burn out wiring in your rig (actually, more like traces on cards). The oddities that arise from ad-hoc grounding scroll out on a list of complaints that many come here to find solution for.

>By the way, a Yeasu technician once recommended salting ground rods to
>resolve a poor grounding situation at the time, so I've been doing
>that ever since (can't hurt), especially during the dry summer months.
>Adding water is pretty obvious, so didn't think I needed to spell that
>out, Dave.

That sounds like a fantasy. If this thread doesn't grow suitably to fill in the vacuum of information, you can do a search in google groups, for this group, using the key word GROUND and CODE.

73's
Richard Clark, KB7QHC

2749. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 17:56:29 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <390b770f-fde6-47fa-9fa3-266d97065221@o30g2000vbc.googlegroups.com>
Source record: 15873

On May 4, 10:32 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > I suspect that Corum made some approximations.
>
> Of course, they are approximations. The wire
> diameter doesn't even appear in the equation.
> Quoting the Corum paper:
>
> "A useful engineering *approximation* has
> been found for the fundamental resonance of
> helices ...".
>
> "... an *approximation* for M has been determined
> by Kandoian and Sichak which is appropriate for
> quarter-wave resonance ... for helices with
> diameters considerably less than a free-space
> wavelength".
>
> "We have found that this expression gives acceptable
> results (errors less than 10%) for most practical
> applications that involve wave propagation on
> helical resonators ...".
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil you never once backed me up on Maxwell/lumped loads
saga on this group. Now you point to several improvisations on
obtaining
lumped load affects by other avenues where not one theory satisfies
the physics community. If one starts off with the acceptance of errors
in the range of 10 % where you are also allowed to jump from one
theory to another so the acceptable discrepancy can be satisfied then
this is dishonest with respect to physics.
As I have pointed out many times, Maxwell's laws do not pass rigourous
examination when lumped loads are introduced. With that said, I do not
quarrel your aproach with respect to degrees of antenna in terms of
approximations but when it is applied to antennas on this group
adherence to Maxwell is required, which is inclusiveness of all forces
as opposed to planar designs (yagi's) where liberties are taken in not
accounting for all forces within the arbitrary borders. It is this
very aproach which have allowed designs of antennas to move away from
the edicts of Maxwell and the equilibrium requirements of Newton which
provide for maximum efficiency.
It is the silence of you and other respected people on this group that

is responsible for the lack of advancement in antenna design over the last hundred years by not adhering to classical physics.
Nothing personal intended, but this does exhibit a representation of the engineers in this group in misleading other hams with respect to this hobby.
Best regards
Art

2750. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 18:03:50 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <V%FLI.18535$8_3.4347@flpi147.ffdc.sbc.com>
Source record: 15874

John KD5YI wrote:
> "Cecil Moore" <nospam@w5dxp.com> wrote in message
> news:JzALl.13395$jZ1.90@flpi144.ffdc.sbc.com...
>> John KD5YI wrote:
>>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>>> A 75m Texas Bugcatcher loading coil certainly
>>>> qualifies as a distributed load being about
>>>> 1/8WL long.
>>> A 75m Texas Bugcatcher loading coil is about 30 feet long?
>> *Electrically*, yes. Its velocity factor calculates
>> out to be about 0.02 at 4 MHz and it is physically
>> 0.563 feet long. 0.563'/0.02 = ~28 feet.
>>
>> At 4 MHz, a 75m Texas Bugcatcher coil replaces ~28 feet
>> of wire in the antenna. That is ~41 degrees at 4 MHz.
>> (Note there is about 44 feet of wire in a 75m Texas
>> Bugcatcher loading coil.)
>
>
> Using your argument, I could buy an inductor wound on a toroid core and
> claim it is a "distributed" component because it "electrically" replaces
> some calculated "degrees" or "feet" of wire at some frequency.
>
> You appear to be trying to make lumped components into distributed
> components to suit your arguments. Shame on you.
>
> John
>
>

It could be worse, John. He could claim that his loading coil replaces
a certain amount of period (time) in addition to length. That might be
too complex for him, though.
73,
Tom Donaly, KA6RUH

2751. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 18:24:24 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lkcuv49jmhumraosq578fredkljq9cdak@4ax.com>
Source record: 15875

On Mon, 04 May 2009 11:03:50 -0700, "Tom Donaly"
<dtdonaly@sbcglobal.net> wrote:

>It could be worse, John. He could claim that his loading coil replaces
>a certain amount of period (time) in addition to length. That might be
>too complex for him, though.

If he could put it to music, it might top the charts over Cat Stevens'
"Time in a Bottle."

73's
Richard Clark, KB7QHC

2752. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 19:03:22 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <6f72fa7d-a35e-4c60-b958-28a93b8d8fbe@s28g2000vbp.googlegroups.com>
Source record: 15876

On May 4, 1:24 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Mon, 04 May 2009 11:03:50 -0700, "Tom Donaly"
>
> <dtdon...@sbcglobal.net> wrote:
> >It could be worse, John. He could claim that his loading coil replaces
> >a certain amount of period (time) in addition to length. That might be
> >too complex for him, though.
>
> If he could put it to music, it might top the charts over Cat Stevens'
> "Time in a Bottle."
>
> 73's
> Richard Clark, KB7QHC

Hold on guys before you start to pile on. Now there is agreement
with respect to approximations, the original debate did not go away.
As Cecil pointed out the difference is in the order of a magnitude!
Somebody has some explanations to provide such as instruments used
were not calibrated as perfect as Richard demands which is why he
agrees with nobody.
Somebody is hiding from the truth and using a sprinkling of untruth to
cover their path.
It is either Roy and Tom or Cecil himself. All others follow their
role models lead.
Art

2753. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 19:39:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <BpHLI.17790$D32.10636@flpi146.ffdc.sbc.com>
Source record: 15877

Art Unwin wrote:
> Cecil you never once backed me up on Maxwell/lumped loads
> saga on this group.

Art, I remember the electron/photon discussion but
I do not remember any Maxwell/lumped loads discussion.
I often skip threads that I do not understand.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2754. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 19:44:26 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <wAHLI.9616$im1.8760@nlpi061.nbdc.sbc.com>
Source record: 15878

Tom Donaly wrote:
> It could be worse, John. He could claim that his loading coil replaces
> a certain amount of period (time) in addition to length.

The percentage of a wavelength that the loading coil
electrically occupies is directly related to the delay
in time through the loading coil.

At 4 MHz, 36 degrees (0.1 WL) of loading coil equates
to 25 nS of delay through the loading coil.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2755. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 19:55:01 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <rKHLl.9617$im1.343@nlpi061.nbdc.sbc.com>
Source record: 15879

Art Unwin wrote:
> It is either Roy and Tom or Cecil himself. All others follow their
> role models lead.

Roy's and Tom's blunder was to think one could use the phase
of the current on a standing wave antenna to determine the
delay through a loading coil when the phase of that current
doesn't change with length even in the wire sections of the
antenna.

Hint: The phase of the current on a standing wave antenna
cannot even be used to determine the delay through a wire
(proved by EZNEC) since the phase doesn't change with
length (over 90 degrees of length).

Since the phase of standing wave current cannot be used on
a wire, why would anyone be naive enough to think it can be
used on a loading coil?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2756. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 20:12:02 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <aa6f0031-4fd8-410e-87b5-5905d21cd43f@l5g2000vbc.googlegroups.com>
Source record: 15880

On May 4, 2:39 pm, Cecil Moore <nos...@w5dxp.com> wrote:

> I often skip threads that I do not understand.

Yup, Roy does that as well as others. Saves having to apologize

Yeah That's the one where you stated energy does not require mass ie
the photon
I would have to go back to the big bang to demonstrate to you that was
wrong.
Another day
Art

2757. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 20:22:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <k1ILl.17796$D32.3926@flpi146.ffdc.sbc.com>
Source record: 15881

Art Unwin wrote:
> Yeah That's the one where you stated energy does not require mass ie
> the photon
> I would have to go back to the big bang to demonstrate to you that was
> wrong.

I was just quoting the standard model. Photons indeed
do have mass since they are always traveling at the speed
of light through a medium. If a photon ever slows down to
zero, that's when its mass goes to zero. No particle with
a non-zero rest mass can ever travel at the speed of light.

I never, never said that "energy does not require mass"!

What I said was that ZERO energy does not require mass.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2758. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 22:14:44 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <4b86b034-cb2a-4444-9efd-189d2706a41b@g20g2000vba.googlegroups.com>
Source record: 15882

On May 4, 3:22 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > Yeah That's the one where you stated energy does not require mass ie
> > the photon
> > I would have to go back to the big bang to demonstrate to you that was
> > wrong.
>
> I was just quoting the standard model. Photons indeed
> do have mass since they are always traveling at the speed
> of light through a medium. If a photon ever slows down to
> zero, that's when its mass goes to zero. No particle with
> a non-zero rest mass can ever travel at the speed of light.
>
> I never, never said that "energy does not require mass"!
>
> What I said was that ZERO energy does not require mass.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

HMMmm
The big bang started with energy being supplied to mass at zero
temperature
What supplied that energy has not been determined but it was energy
provided to mass, possibly hydrogen since it is first on an element
list, that propelled the parts of the broken initial mass. The initial
energy can only be provided back per Newtons laws is by all mass
returning to the initial point of rest. Therefore since a boundary was
formed around every piece of mass that was emitted since it generated
its own environment it is impossible for all boundaries to return to
the original point as the environments generated within each boundary
fills all the space around the original point of action. Thus unless
all boundaries decay to nothing, which means all energy now be zero,
it still leaves us with the initial mass to be accounted for that was
the carrier of the initially supplied energy! In other words the
initial energy supplied for the big bang can only return to the
initial point of the universe to achieve accountability of all forces.
I have a feeling that scientists today are getting close to assigning
different
names to the same parts by viewing the same but from different vantage
points ie a cluster of particles having a different name to that of
its parts.
Art

2759. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 22:29:09 UTC
From: dave <dave@dave.dave>
Message-ID: <49ff6c36$0$31207$bd467cd0@news.dslextreme.com>
Source record: 15884

Jim Lux wrote:

> Do you use a balun at the antenna
>> feedpoint? How do you tune the inverted-V?
>
> Good RF chokes on the coax at the feedpoint and at the point of entry
> would go a long way to eliminating any "RF in the shack" problems. A
> couple 2.4" 31 mix cores with half a dozen turns on them, for instance.
>
> Whether the V is tuned or not won't have any effect on RFI or grounding.

A BalUn would help a lot.

Since we are sticklers for the NEC, Homey needs a #6 wire from where the
transmission line enters the dwelling to an 8' copper clad rod driven
into the earth, as close as practicable.

2760. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 22:43:14 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <o4KLl.3580$fD.355@flpi145.ffdc.sbc.com>
Source record: 15883

Art Unwin wrote:
> In other words the
> initial energy supplied for the big bang can only return to the
> initial point of the universe to achieve accountability of all forces.

It's called "The Big Crunch", Art, and is the theory
to which I personally ascribe. I'm trying to live
long enough to see it happen. :-)

I believe the universal expansion from the Big Bang
will someday reverse itself and collapse back into
the singularity from which it came. It's called
"The Oscillating Universe", a book I read half a
century ago about the time I graduated from Texas A&M.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2761. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 23:26:45 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <71870b7b-f529-4ba3-bfd3-c1d98aa728a6@s20g2000vbp.googlegroups.com>
Source record: 15885

On May 4, 5:43 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > In other words the
> > initial energy supplied for the big bang can only return to the
> > initial point of the universe to achieve accountability of all forces.
>
> It's called "The Big Crunch", Art, and is the theory
> to which I personally ascribe. I'm trying to live
> long enough to see it happen. :-)
>
> I believe the universal expansion from the Big Bang
> will someday reverse itself and collapse back into
> the singularity from which it came. It's called
> "The Oscillating Universe", a book I read half a
> century ago about the time I graduated from Texas A&M.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

How can you live to see it happen when it requires our Earth to be
concentrated as a single point mass at what was our Earth center of
gravity! Only when all boundaries shrink to point mass will they all
be able to elbow themselves back to a single point at the point of
origin. You can't see a black hole if you are drawn in also!
Enuff said
Art

2762. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-04 23:36:28 UTC
From: Bruce in alaska <fast@btpost.net>
Message-ID: <fast-4C26C6.15365704052009@netnews.worldnet.att.net>
Source record: 15886

In article <jg5uv4hreni0e25hlq4rv3m52dueoujj1o@4ax.com>,
Richard Clark <kb7qhc@comcast.net> wrote:

> >By the way, a Yeasu technician once recommended salting ground rods to
> >resolve a poor grounding situation at the time, so I've been doing
> >that ever since (can't hurt), especially during the dry summer months.
> >Adding water is pretty obvious, so didn't think I needed to spell that
> >out, Dave.
>
> That sounds like a fantasy. If this thread doesn't grow suitably to
> fill in the vacuum of information, you can do a search in google
> groups, for this group, using the key word GROUND and CODE.
>
> 73's
> Richard Clark, KB7QHC

It really depends on the area that your trying to build the RF Ground
on, or into. Here in Alaska much of the earth (Dirt) is just plain
Silica Sand, and rock, with very little mineralite in it, and is about
as effective an RF Ground as a piece of Glass. We use Dipoles a lot just
for that reason as they don't required an RF Ground to work against to
radiate effectively. In some areas where Marconi type Antennas are used,
and one MUST have an effective RF Ground, we have used Chicken Wire
panels laid flat out from the base to 1/4 Wave at the lowest Frequency
of intended use, and then Salted the dirt to add to the effective
conductance of the Ground plane untill the chicken wire Rusts to the
point of leaving just the conductive material in the top of the dirt.
The Commercial AutoTune Antenna Tuners really don't work well without an
effective RF Ground to work against, as the Microcode that runs them,
can't deal with the very non-stable RF Grounding Systems. There are a
number of ways to get single-ended Autotuners to tune Balanced Dipole
type Antennas, and those are used as well. Much of the work done in the
commercial MF/HF Communications Antennas Systems here in Alaska, was
pioneered by the Engineering Staffs of the old Northern Radio Company,
and then continued by Stephens Engineering Associates. (SEA) Both
outfits were leaders in Bush Communications here in Alaska, in their day.

--
Bruce in alaska
add <path> after <fast> to reply

2763. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 02:40:56 UTC
From: Howard Lester <heylester@dakotacom.net>
Message-ID: <gto901rui1@news.motzarella.org>
Source record: 15887

"dave" wrote

> A BalUn would help a lot.

For what? If the antenna system is balanced (as are dipoles, inherently), I seriously doubt a balun would be good for anything.

2764. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 03:06:06 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <49ffad42$0$92362$8046368a@newsreader.iphouse.net>
Source record: 15888

Howard Lester wrote:
> "dave" wrote
>
>> A BalUn would help a lot.
>
> For what? If the antenna system is balanced (as are dipoles, inherently), I
> seriously doubt a balun would be good for anything.
>
>

He's feeding it with coax, so it's not just a good idea, it's required.

The antenna is balanced, the feedline is not. He stated the feedline is
RG-8X.

tom
K0TAR

2765. Re: Station With Center-Fed Dipole - Best Grounding Technique? [Salting ground rods]

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 03:23:57 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <njOLI.15097$Rf7.8584@newsfe21.iad>
Source record: 15889

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:49FF033A.2090908@jpl.nasa.gov...
>> By the way, a Yeasu technician once recommended salting ground
>> rods to resolve a poor grounding situation at the time, so I've
>> been doing that ever since (can't hurt), especially during the
>> dry summer months. Adding water is pretty obvious, so didn't
>> think I needed to spell that out, Dave.
>
> Hmm. and that Yaesu technician has what training and experience
> in grounding systems for lightning protection (other than what's
> printed in the front of the manuals)?
>
> And did the salting improve anything? if so, what? adding
> grounding is almost always the wrong solution to operational
> problems (RFI, for instance), since the purpose of grounding
> systems is to deal with abnormal events (short circuits,
> transients, etc.).

I will have to second Jim's statements here. Anyone that thinks that salting ground rods will provide a better radio frequency ground is fooling himself. Charged ions in water move at relatively slow speeds that are determined by, among other things, the temperature, the size of the ions, and the viscosity of the solution. At low frequencies, the period of the AC voltage allows the ions to migrate a considerable distance. But at higher frequencies, the period becomes shorter and the ions can move only slight distances before the polarity, and hence the direction of the ion migration, changes. The conductivity of the solution follows a reciprocal relationship with frequency.

By the time we get to radio frequencies, the dissolved salts do little to increase the ground conductivity. What is important, however, is the moisture content. This is why moisture retaining clays such as bentonite are sometimes used.

In areas where the ground is frozen. it is difficult to get a good radio frequency ground. This is because the dielectric constant of ice is low while that of water is high. In this special case, adding salt might help as it lowers the freezing point of water.

At the WYFF transmitter site on Caesar's Head, SC, there is an 800 foot tower atop a 3100 foot granite mountain. To get a decent ground for lightning protection, they ran three 1/4" thick copper sheets about a foot wide out from the base of the tower to where the guy wires attached. This provides an effective capacitive grounding system as the granite itself is not very conductive. They get hit by lightning frequently. Previous station engineers have related many stories about ball lightning rolling around the floor in the transmitter room.

--
73, Dr. Barry L. Ornitz WA4VZQ

BLOrnitz48@charter.net

2766. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 03:25:23 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <MkOLI.6767$0S.435@newsfe22.iad>
Source record: 15890

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:f7144c90-5605-4b07-9ea3-093f16ba7f99@h23g2000vbc.googlegroups.com...

<snip >

There is nothing without mass. Radiation is created by an
accelleration of charge which is mass. Particles create radiation .
Waves is also mass that is soluble acting under the influences of the
Universe.Thus a wave is a adjective that describes the applied
actions upon mass ie a noun. If a particle sits on the formation of a
wave then the two part ways.

When ya 'splains it that way, it gets me to thinkin'.

2767. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 04:11:14 UTC
From: kb9rqz@yahoooo.com
Message-ID: <s1fvv4l3ukp77b0n8ft6d2fogbs38lvhem@4ax.com>
Source record: 15891

On Mon, 4 May 2009 20:25:23 -0700, "Sal M. Onella"
<salmonella@food.poisoning.org> wrote:

>
>"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>news:f7144c90-5605-4b07-9ea3-093f16ba7f99@h23g2000vbc.googlegroups.com...
>
><snip >
>
>There is nothing without mass. Radiation is created by an
>accelleration of charge which is mass. Particles create radiation .
>Waves is also mass that is soluble acting under the influences of the
>Universe.Thus a wave is a adjective that describes the applied
>actions upon mass ie a noun. If a particle sits on the formation of a
>wave then the two part ways.
>
>When ya 'splains it that way, it gets me to thinkin'.
>
well noting is indeed without mass,,,if t is truly nothing that is

sorry could resist

"one useless man is disgrace 2 become a law firm 3 or more become a congress"
adams

woger you are a Congress all in your own head
"http://www.3ix.org/sys/aff.php?aff=7439" target="_blank"

altopia is never used by KB9RQZ
http://kb9rqz.cc.cc
http://kd8ctl.com
nor is Konstans@hotmail.com ever
btw i can be found at
17366 N River Rd
Chassel Mi

but the cowards asking lack the gut to act

2768. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 07:01:14 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <rkovv4dedrnc4me18ovsfr5m03q7q9k1ud@4ax.com>
Source record: 15892

On Mon, 4 May 2009 20:25:23 -0700, "Sal M. Onella"
<salmonella@food.poisoning.org> wrote:

>There is nothing without mass.

Metaphysics?

>Waves is also mass
How much does one wave of 160M weigh on Earth? (Killer question
because none will never see a number put to it.)

Here's another, perhaps easier, question: "How many angels dancing on
the head of a pin would a 75cM wave knock off?" [You don't need a
number to answer "all of them."]

73's
Richard Clark, KB7QHC

2769. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 11:02:57 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <C1VLI.28615$yr3.23251@nlpi068.nbdc.sbc.com>
Source record: 15893

dave wrote:
> Since we are sticklers for the NEC, Homey needs a #6 wire from where the
> transmission line enters the dwelling to an 8' copper clad rod driven
> into the earth, as close as practicable.

What if it is 1/4WL long?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2770. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 11:19:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <gaVLl.17833$D32.14634@flpi146.ffdc.sbc.com>
Source record: 15894

Richard Clark wrote:
> How much does one wave of 160M weigh on Earth?

How many photons are in that wave?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2771. Global Cooling?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 11:45:02 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <pyVLI.17834$D32.11258@flpi146.ffdc.sbc.com>
Source record: 15895

http://news.nationalgeographic.com/news/2009/05/090504-sun-global-cooling.html
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2772. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 12:19:05 UTC
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Message-ID: <slrnh00bju.s2h.gsm@cable.mendelson.com>
Source record: 15896

Cecil Moore wrote:

> What if it is 1/4WL long?

Then not only will he not be worried about insurance problems and nearby lightening strikes, but he won't be bothered with interference complaints, and all those annoying "Donald Duck" voices and beeps on the radio, etc.

:-)

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

2773. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 12:21:31 UTC
From: dave <dave@dave.dave>
Message-ID: <9oudnYswo-TWsp3XnZ2dnUVZ_v2dnZ2d@earthlink.com>
Source record: 15897

Cecil Moore wrote:
> dave wrote:
>> Since we are sticklers for the NEC, Homey needs a #6 wire from where
>> the transmission line enters the dwelling to an 8' copper clad rod
>> driven into the earth, as close as practicable.
>
> What if it is 1/4WL long?

"as practible" leaves some wiggle room. Charts of lengths to avoid are
available.

2774. Re: Global Cooling?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 12:53:03 UTC
From: MTV <volztexas355@comcast.net>
Message-ID: <%EWLI.276953$UQ6.77066@en-nntp-03.dc1.easynews.com>
Source record: 15898

Cecil Moore wrote:
> http://news.nationalgeographic.com/news/2009/05/090504-sun-global-cooling.html
>

Darn! Just when I put up a new 10M beam - remembering the glory days of
the 50s when DX with my Heathkit DX-40 on 10 was a piece of cake. DXCC
in just a few months.

Marv
W5MTV

2775. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 13:00:44 UTC
From: Howard Lester <heylester@dakotacom.net>
Message-ID: <gtpdaashk1@news.motzarella.org>
Source record: 15899

"Tom Ring" wrote

> He's feeding it with coax, so it's not just a good idea, it's required.
>
> The antenna is balanced, the feedline is not. He stated the feedline is
> RG-8X.

I know that, and just because it's balanced to unbalanced, it's not *required.* The antenna system can work just fine without one. In some cases, at least according to the late Lew McCoy, it can do more harm than good. If the antenna system is inherently unbalanced due to one leg being, say, in greater proximity to metal and other objects, then I would consider using some kind of balun or choke system.

2776. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 14:03:40 UTC
From: noname <noname@nomail.net>
Message-ID: <ikh005to25ii573kd8mqmvrk8lqlcgl5ut@4ax.com>
Source record: 15900

On Mon, 04 May 2009, dave <dave@dave.dave> wrote:
>
> Do you have metal water pipes upstairs with continuity to a spot
> near the ground rods downstairs? If so you can run a strap to
> your shack upstairs, and another from the water pipe to the
> ground rods downstairs.

Nope, nothing anywhere near the radio. All the water pipes in the house are on the opposite side, fifty feet or more from the radio. The shortest path to any ground whatsoever is directly out the window and down to the soil roughly ten feet below.

> You need an RF ground (as the safety ground is the 3 prong Edison.)
> MFJ makes an artificial ground. Do you use a balun at the antenna
> feedpoint? How do you tune the inverted-V?

Nothing is permanently installed at the moment, so it's a fairly clean slate. The antenna (Alpha Delta Model DX-EE 40-20-15-10 meter dipole) was pre-installed to drill the hooks needed to hold it up, but it's now a pile of wires on the living room floor. The antenna doesn't have a balun of any type.

While the antenna was up, I used an MFJ-207 Antenna/SWR Analyzer to get some very quick readings just to make sure the antenna would work.

stewart / w5net

2777. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 14:06:12 UTC
From: dave <dave@dave.dave>
Message-ID: <obednbFMidxJ2p3XnZ2dnUVZ_jdi4p2d@earthlink.com>
Source record: 15801

Howard Lester wrote:
> "Tom Ring" wrote
>
>> He's feeding it with coax, so it's not just a good idea, it's required.
>>
>> The antenna is balanced, the feedline is not. He stated the feedline is
>> RG-8X.
>
> I know that, and just because it's balanced to unbalanced, it's not
> *required.* The antenna system can work just fine without one. In some
> cases, at least according to the late Lew McCoy, it can do more harm than
> good. If the antenna system is inherently unbalanced due to one leg being,
> say, in greater proximity to metal and other objects, then I would consider
> using some kind of balun or choke system.
>
>

www.bunkerofdoom.com/lit/bal_xmit/HFbaltransys.pdf

2778. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 14:54:16 UTC
From: noname <noname@nomail.net>
Message-ID: <nck005d558f0e16cddksilgc79no5ddvsk@4ax.com>
Source record: 15802

On Mon, 04 May 2009, Jim Lux <james.p.lux@jpl.nasa.gov> wrote:
>
> Where are you located? The recommendation will vary
> substantially if you are in Southern California (almost no
> lightning) or Orlando Florida (Lightning capital of the US,
> for all intents and purposes).

Heidelberg, located in central Germany. Lightning is not a huge problem here, but one can perhaps never be too safe in that regard.

By the way, the soil here is just fine as well and certainly doesn't lack moisture. Thus, since so many are fosusing on it, I'm sorry the salt was even mentioned. It's not needed in any way. It's just something I've gotten into the habit of doing.

> Hmm. and that Yaesu technician has what training and
> experience in grounding systems for lightning protection
> (other than what's printed in the front of the manuals)?
>
> And did the salting improve anything? if so, what? adding
> grounding is almost always the wrong solution to
> operational problems (RFI, for instance), since the purpose
> of grounding systems is to deal with abnormal events
> (short circuits, transients, etc.)

The salt did indeed help in that particular situation. At the time, I was living on a hillside in Bremerton Washington, with the immediate countryside mostly small rock incapable of holding water for any length of time.

The situation was so bad, my radio (Yaesu FT-847) would often instantly shut off due to high SWR readings, in spite of my ground plane antenna being fully functional with several (at one point eight) ground rods installed. The only way to prevent that was to add water around the ground rods each day, which usually worked only until the next day.

Since adding more ground rods did nothing (and watering my antenna each day was quickly getting tedious), I called Yaesu thinking the radio might be defective. The technician recommended salt after agreeing my ground rods should be sufficient for the task.

I was skeptical, but did as he suggested. Dug a hole (about a foot deep) around each ground rod, drove the rods in a bit deaper, poured in a generous helping of rock salt, and then watered the area long enough for the salt to spread into the soil.

Of course, the radio was fine immediately after adding the water, but the real test was the next day once the water drained away. The radio did operate just fine that next day, and the day after that. In fact, the rock salt added to the soil (more added every two to three months) resolved the problem entirely the remainder of my time at that location.

stewart / w5net

2779. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 15:10:16 UTC
From: noname <noname@nomail.net>
Message-ID: <fgl0059ag3qubuhcs5ssb7f8p4n1ec3cf0@4ax.com>
Source record: 15803

On Mon, 04 May 2009, Richard Clark <kb7qhc@comcast.net> wrote:
>
> A very good description of your set-up. You are already
> grounded through a the haphazard path of your AC outlet
> - if you chose to use three prong connections, if your outlet
> is in fact grounded, if your equipment actually has a safety
> ground to chassis. A lot of "ifs," hence my use of "haphazard."

Okay, I have checked each of those. The house was recently inspected
ensure compliance with recent building code requirements, with the
outlets and overall grounding system checked for proper wiring at that
time. The house wiring exceeded current building requirements, which I
was indeed happy to hear.

The radio uses a three-prong cord (a requirement here), with the
chassis apparently connected at several points to the ground of that.
It appears the antenna shield side of the connector is also bolted
directly to that chassis.

> By deliberately adding a ground wire going to an ad-hoc
> ground rod, you can easily introduce problems. (snip)

So you recommend no additional grounding?

stewart / w5net

2780. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 15:35:32 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtpmc4$k1e$1@news.jpl.nasa.gov>
Source record: 15805

dave wrote:
> Jim Lux wrote:
>
>
>> Do you use a balun at the antenna
>>> feedpoint? How do you tune the inverted-V?
>>
>> Good RF chokes on the coax at the feedpoint and at the point of entry
>> would go a long way to eliminating any "RF in the shack" problems. A
>> couple 2.4" 31 mix cores with half a dozen turns on them, for instance.
>>
>> Whether the V is tuned or not won't have any effect on RFI or grounding.
>
> A BalUn would help a lot.

Balun/choke.. tomato, tomato.. they're really all the same thing. Keep
the RF off the outside of the coax.

>
> Since we are sticklers for the NEC, Homey needs a #6 wire from where the
> transmission line enters the dwelling to an 8' copper clad rod driven
> into the earth, as close as practicable.

The communications system (be it CATV, net powered broadband, amateur,
etc.) would need to be bonded to any of the usual things that form the
grounding/bonding system,e.g, one could "ground" through the metal conduit.

A ground rod is, of course, not recommended in the current codes as a
made electrode, and in any case, the code doesn't necessarily require a
specially installed ground for this purpose. If you DO install another
ground, then it has to be bonded with AWG #6 copper (or bigger) (can't
use the conduit)

Telephone has different rules. Must have electrode/grounding means as
close as practicible to point of entrance, and the ground wire has to be
AWG14 or large, insulated, in as straight a line as possible.

Metal structure supporting outdoor antenna systems have to be grounded
with AWG10 or bigger copper, AWG8 aluminum, or AWG17 copperclad steel,
straight line. (the size requirement is for mechanical strength, not
conductivity, which is why the copperweld(r) can be smaller)

So you have these weird situations where the phone protection block has
to be connected with AWG14 insulated to a grounding electrode as close
as practicible, but then, because of the "bonding of electrodes" rules,
you have to connect that electrode to the "house ground" with nothing

smaller than AWG6.

CATV is even different.. grounding block for drop has to be grounded to an electrode close to block and an *insulated* AWG14 or bigger run to bond with the rest of the house's grounding system.

This sort of thing is why most ham installations aren't "code compliant"... heck, you could go insane trying to wend your way through the thicket of rules for the NEC. And that doesn't even begin to get into the transient suppression guidelines and/or NFPA 780 lightning protection rules.

>
>

2781. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 15:37:40 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtpmg3$k1e$2@news.jpl.nasa.gov>
Source record: 15806

Howard Lester wrote:
> "dave" wrote
>
>> A BalUn would help a lot.
>
> For what? If the antenna system is balanced (as are dipoles, inherently), I
> seriously doubt a balun would be good for anything.
>
>

Most every practical dipole installation has some imbalance in the
installation (the trees are closer to one side than the other, etc.).. a
choke to prevent RF current from flowing on the outside of the feedline
will at least make the pattern more consistent with expectations.
Might make the tuning less "twitchy" too (because you've decoupled the
effect of things near the feedline).

Certainly, a choke at the entrance to the shack is a great way to keep
RF outside.

2782. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 15:39:31 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtpmji$k1e$3@news.jpl.nasa.gov>
Source record: 15807

Cecil Moore wrote:
> dave wrote:
>> Since we are sticklers for the NEC, Homey needs a #6 wire from where
>> the transmission line enters the dwelling to an 8' copper clad rod
>> driven into the earth, as close as practicable.
>
> What if it is 1/4WL long?

The NEC cares not one whit for RF performance. The NEC rules are designed to keep the house from burning down or people dying if something happens: like a power line falling on the antenna. I read a quoted statistic (for which I can't find the original source, so it might not be trustable) that electrocution is the leading cause of death in connection with antennas.

2783. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 15:44:04 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtpms3$p0a$1@news.jpl.nasa.gov>
Source record: 15808

> I was skeptical, but did as he suggested. Dug a hole (about a foot
> deep) around each ground rod, drove the rods in a bit deaper, poured
> in a generous helping of rock salt, and then watered the area long
> enough for the salt to spread into the soil.
>
> Of course, the radio was fine immediately after adding the water, but
> the real test was the next day once the water drained away. The radio
> did operate just fine that next day, and the day after that. In fact,
> the rock salt added to the soil (more added every two to three months)
> resolved the problem entirely the remainder of my time at that
> location.
>

The professionals use something like bentonite or montmorillion clay (kitty litter) as a soil admixture. The stuff is like a sponge and holds the water real well (by surface tension) and is very ionic as well, so the conductivity is good. You have to be careful, because too much causes an expansive soil problem.

2784. Re: Global Cooling?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 15:52:44 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <w6ZLI.36829$i9.11761@bignews7.bellsouth.net>
Source record: 15804

"MTV" <volztexas355@comcast.net> wrote in message
news:%EWLl.276953$UQ6.77066@en-nntp-03.dc1.easynews.com...
> Cecil Moore wrote:
>> http://news.nationalgeographic.com/news/2009/05/090504-sun-global-cooling.html
>
> Darn! Just when I put up a new 10M beam - remembering the glory days of
> the 50s when DX with my Heathkit DX-40 on 10 was a piece of cake. DXCC in
> just a few months.
>
> Marv
> W5MTV

I'm a six meter enthusiast. Imagine how I must feel...

Ed, AJ4PJ

2785. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 17:45:15 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ept0055ei88ngib85t7ut4ql1vk6hmf131@4ax.com>
Source record: 15809

On Tue, 05 May 2009 17:10:16 +0200, noname <noname@nomail.net> wrote:

>On Mon, 04 May 2009, Richard Clark <kb7qhc@comcast.net> wrote:
>>
>> A very good description of your set-up. You are already
>> grounded through a the haphazard path of your AC outlet
>> - if you chose to use three prong connections, if your outlet
>> is in fact grounded, if your equipment actually has a safety
>> ground to chassis. A lot of "ifs," hence my use of "haphazard."
>
>
>Okay, I have checked each of those. The house was recently inspected
>ensure compliance with recent building code requirements, with the
>outlets and overall grounding system checked for proper wiring at that
>time. The house wiring exceeded current building requirements, which I
>was indeed happy to hear.

Hi Steve,

So, in fact your three prong plugs find their way to the panel ground.
Can YOU find that ground?

>
>The radio uses a three-prong cord (a requirement here), with the
>chassis apparently connected at several points to the ground of that.
>It appears the antenna shield side of the connector is also bolted
>directly to that chassis.

So, by this explicit statement, your "balanced" antenna has been
unbalanced at the rig (which only further enforces the unbalance by
virtue of the coax connection).

>> By deliberately adding a ground wire going to an ad-hoc
>> ground rod, you can easily introduce problems. (snip)
>
>
>So you recommend no additional grounding?

This is a loaded question because there are TWO grounds which
discussion often gets mixed. They may both go to the same point of
zero potential, but their paths are what distinguish them. The TWO
grounds are safety ground and RF ground. Any wire that is
significantly long at a wavelength of your operation, will qualify
more as a radiator than it will as a ground wire.

Consider you are sitting at your transmitter, it has a dedicated newly
applied ground wire that runs the shortest distance to what you think

of as ground. Maybe that is all of 10 feet. You are operating on 10M. Ground is a quarterwave away. That puts your equipment at the high potential end of a wire with zero potential at ground. How grounded does that sound?

The solution there is to add an artificial ground tuner to move that potential away from you (this would be an attempt to "balance" the distribution so that your equipment sits at an artificially imposed neutral - ground of another mother).

Thing is, as I said, you already have a ground connection. The safety ground is a necessity unless you are very practiced in the art of isolation. You can add another path, and, again, that path may be a different length to the one you already have. Given that situation, you may find one path now spilling current into the new one - as dependant upon the wavelength of operation and the physical path lengths. When this spilling from one path into the other occurs, strange things happen compared to if you hadn't added that new path.

More's to be said, but that's enough for now.

73's
Richard Clark, KB7QHC

2786. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 17:53:07 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtpue3$5f5$1@news.jpl.nasa.gov>
Source record: 15810

Richard Clark wrote:
> On Tue, 05 May 2009 17:10:16 +0200, noname <noname@nomail.net> wrote:
>
>> On Mon, 04 May 2009, Richard Clark <kb7qhc@comcast.net> wrote:
>>> A very good description of your set-up. You are already
>>> grounded through a the haphazard path of your AC outlet
>>> - if you chose to use three prong connections, if your outlet
>>> is in fact grounded, if your equipment actually has a safety
>>> ground to chassis. A lot of "ifs," hence my use of "haphazard."
>>
>> Okay, I have checked each of those. The house was recently inspected
>> ensure compliance with recent building code requirements, with the
>> outlets and overall grounding system checked for proper wiring at that
>> time. The house wiring exceeded current building requirements, which I
>> was indeed happy to hear.
>
> Hi Steve,
>
> So, in fact your three prong plugs find their way to the panel ground.
> Can YOU find that ground?
>
>> The radio uses a three-prong cord (a requirement here), with the
>> chassis apparently connected at several points to the ground of that.
>> It appears the antenna shield side of the connector is also bolted
>> directly to that chassis.
>
> So, by this explicit statement, your "balanced" antenna has been
> unbalanced at the rig (which only further enforces the unbalance by
> virtue of the coax connection).
>
>>> By deliberately adding a ground wire going to an ad-hoc
>>> ground rod, you can easily introduce problems. (snip)
>>
>> So you recommend no additional grounding?
>
> This is a loaded question because there are TWO grounds which
> discussion often gets mixed. They may both go to the same point of
> zero potential, but their paths are what distinguish them. The TWO
> grounds are safety ground and RF ground. Any wire that is
> significantly long at a wavelength of your operation, will qualify
> more as a radiator than it will as a ground wire.
>
> Consider you are sitting at your transmitter, it has a dedicated newly
> applied ground wire that runs the shortest distance to what you think

> of as ground. Maybe that is all of 10 feet. You are operating on
> 10M. Ground is a quarterwave away. That puts your equipment at the
> high potential end of a wire with zero potential at ground. How
> grounded does that sound?

Worse than that. You've basically made a big loop antenna: greenwire
ground to panel, panel to ground rod, ground rod to rig.

>
> The solution there is to add an artificial ground tuner to move that
> potential away from you (this would be an attempt to "balance" the
> distribution so that your equipment sits at an artificially imposed
> neutral - ground of another mother).

Or, easier.. put a choke around the feedline where it comes into the
shack, so that there's no appreciable RF current through the chassis and
green-wire ground.

>
> Thing is, as I said, you already have a ground connection. The safety
> ground is a necessity unless you are very practiced in the art of
> isolation. You can add another path, and, again, that path may be a
> different length to the one you already have. Given that situation,
> you may find one path now spilling current into the new one - as
> dependant upon the wavelength of operation and the physical path
> lengths. When this spilling from one path into the other occurs,
> strange things happen compared to if you hadn't added that new path.

Exactly.. one DC/Line frequency path is all that's needed for safety.

2787. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 18:44:04 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtq1du$g79$1@news.service.uci.edu>
Source record: 15811

Richard Clark wrote:

> If he could put it to music, it might top the charts over Cat Stevens'
> "Time in a Bottle."

I think Jim Croce did that one. Cat Stevens did Wild World, Peace
Train, Moon Shadow, etc. And to top the charts these days you pretty
much have to be a rapper and have a dance crew.

ac6xg

2788. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 19:22:08 UTC
From: dave <dave@dave.dave>
Message-ID: <4A0091E0.5020500@dave.dave>
Source record: 15812

Jim Lux wrote:
> Howard Lester wrote:
>> "dave" wrote
>>
>>> A BalUn would help a lot.
>>
>> For what? If the antenna system is balanced (as are dipoles,
>> inherently), I seriously doubt a balun would be good for anything.
>>
>
> Most every practical dipole installation has some imbalance in the
> installation (the trees are closer to one side than the other, etc.).. a
> choke to prevent RF current from flowing on the outside of the feedline
> will at least make the pattern more consistent with expectations. Might
> make the tuning less "twitchy" too (because you've decoupled the effect
> of things near the feedline).
>
> Certainly, a choke at the entrance to the shack is a great way to keep
> RF outside.

A choke wastes power.

2789. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 19:22:22 UTC
From: dave <dave@dave.dave>
Message-ID: <4a0091ef$0$31187$bd467cd0@news.dslextreme.com>
Source record: 15813

Jim Lux wrote:
> Howard Lester wrote:
>> "dave" wrote
>>
>>> A BalUn would help a lot.
>>
>> For what? If the antenna system is balanced (as are dipoles,
>> inherently), I seriously doubt a balun would be good for anything.
>>
>
> Most every practical dipole installation has some imbalance in the
> installation (the trees are closer to one side than the other, etc.).. a
> choke to prevent RF current from flowing on the outside of the feedline
> will at least make the pattern more consistent with expectations. Might
> make the tuning less "twitchy" too (because you've decoupled the effect
> of things near the feedline).
>
> Certainly, a choke at the entrance to the shack is a great way to keep
> RF outside.

A choke wastes power.

2790. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 19:27:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <jq0Ml.9800$im1.3559@nlpi061.nbdc.sbc.com>
Source record: 15814

dave wrote:
> A choke wastes power.

I certainly wish that the RF power that left my lip
with an RF burn scar had been wasted by a choke.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2791. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 19:57:28 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtq5nihnn1@news.service.uci.edu>
Source record: 15815

Cecil Moore wrote:
> John KD5YI wrote:
>> "Cecil Moore" <nospam@w5dxp.com> wrote in message
>>> A 75m Texas Bugcatcher loading coil certainly
>>> qualifies as a distributed load being about
>>> 1/8WL long.
>>
>> A 75m Texas Bugcatcher loading coil is about 30 feet long?
>
> *Electrically*, yes. Its velocity factor calculates
> out to be about 0.02 at 4 MHz and it is physically
> 0.563 feet long. 0.563'/0.02 = ~28 feet.
>
> At 4 MHz, a 75m Texas Bugcatcher coil replaces ~28 feet
> of wire in the antenna. That is ~41 degrees at 4 MHz.
> (Note there is about 44 feet of wire in a 75m Texas
> Bugcatcher loading coil.)
>
> Equation 32 in the following IEEE paper is what I used
> to calculate the velocity factor of the loading coil.
>
> http://www.ttr.com/TELSIKS2001-MASTER-1.pdf

How well does your answer compare with the curves in Fig. 1 given the
number of turns in a Bugcatcher coil?

ac6xg

2792. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 20:46:10 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <cJudneYF1rwIOJ3XnZ2dnUVZ_uSdnZ2d@posted.easystreetonline>
Source record: 15816

dave wrote:
> Jim Lux wrote:
>>
>> Certainly, a choke at the entrance to the shack is a great way to keep
>> RF outside.
>
> A choke wastes power.

A properly designed common mode choke does not waste power.

Roy Lewallen, W7EL

2793. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 20:58:49 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <sE1Ml.3640$fD.623@flpi145.ffdc.sbc.com>
Source record: 15817

Jim Kelley wrote:
> How well does your answer compare with the curves in Fig. 1 given the
> number of turns in a Bugcatcher coil?

Since the curves are generated from the equation,
they should match perfectly. As a matter of fact,
I have a dot on that graph at 0.004 and 5k. The
VF is ~0.02.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2794. Antenna to dangle over a cliff

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 21:05:34 UTC
From: Ross <rjtucke@gmail.com>
Message-ID: <6a5bbd71-c1d8-4db1-af06-5bd416d2affe@s31g2000vbp.googlegroups.com>
Source record: 15818

Dear list-

I was just wondering about the performance of a long wire dangled over a cliff? Our Field Day location is on the Mogollon Rim (http://en.wikipedia.org/wiki/Mogollon_Rim) of Northern Arizona. We really like the view, but I was wondering if it might not be useful for antenna experimentation, too.

My thought is to use a fiberglass pole at a 45deg angle to hold a weighted antenna line off from the cliff face, although some locations even have pretty good overhangs. Then we could use either an inverted-L configuration, running feedline along the support pole and bringing the horizontal part up to a tree near the edge, or just go with a really long end-fed antenna.

Any thoughts on this? I couldn't find anything written about this via google. All constructive comments are welcomed.

73 de NS7F,
Ross Tucker

2795. Re: Antenna to dangle over a cliff

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 21:32:30 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <gtb105t691tkvab9cbas3dq8tudkk16l9r@4ax.com>
Source record: 15819

On Tue, 5 May 2009 14:05:34 -0700 (PDT), Ross <rjtucke@gmail.com>
wrote:

>Dear list-

Group, not list....

>My thought is to use a fiberglass pole at a 45deg angle to hold a
>weighted antenna line off from the cliff face, although some locations
>even have pretty good overhangs. Then we could use either an inverted-
>L configuration, running feedline along the support pole and bringing
>the horizontal part up to a tree near the edge, or just go with a
>really long end-fed antenna.

Hi Ross,

Put a good weight on it, and spool out over the edge until you achieve
lowest SWR for your frequency. The higher the cliff, the lower the
frequency you can accomodate. Think of it as an inverse balloon or -
a Lead Zepp.

What are you going to do about ground?

73's
Richard Clark, KB7QHC

2796. Re: Antenna to dangle over a cliff

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 21:36:36 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Fj2MI.15738$hc1.1862@flpi150.ffdc.sbc.com>
Source record: 15820

Ross wrote:
> Any thoughts on this? I couldn't find anything written about this via
> google. All constructive comments are welcomed.

Check out Zepp antennas dangled from airships.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2797. Parallel ground planes

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 22:21:52 UTC
From: "Bruce W. Ellis" <ellis@means.net>
Message-ID: <pge1059scfa8llq6982hg5cqn3nakcrlvu@4ax.com>
Source record: 15821

I have a question for the antenna gurus. I have a 40m groundplane (base about 10 feet up, sloping radials). It works fine on 40 and gives a reasonable swr on 15, although, I'm sure, too much high angle radiation. What would happen if I put a 15m gp element in parallel with the 40m? Or (I suspect) would it be better to parallel the15m element with my separate 20m gp and (if the sunspots ever come back) parallel the 40m element with a 10m element. I'd rather not put up 4 separate gp's (for family reasons). TNX W0BF

2798. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 22:27:41 UTC
From: Dave <noone@nowhere.com>
Message-ID: <x33Ml.4679$b11.2244@nwrddc02.gnilink.net>
Source record: 15822

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:4b86b034-cb2a-4444-9efd-189d2706a41b@g20g2000vba.googlegroups.com...
On May 4, 3:22 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>HMMmm
>The big bang started with energy being supplied to mass at zero
>temperature

so now you are a cosmologist and can perfectly explain the start of the big
bang... have you discussed this with stephen hawking recently?

2799. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 22:29:13 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Z43Ml.4681$b11.3750@nwrddc02.gnilink.net>
Source record: 15823

"John KD5YI" <groups1.jocjo@xoxy.net> wrote in message
news:tVBLl.4373$b11.3391@nwrddc02.gnilink.net...

> You appear to be trying to make lumped components into distributed
> components to suit your arguments. Shame on you.

its all a question of scale... your lumped inductor looks distributed to me
under a microscope, and still obeys all of maxwell's equations.

2800. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 22:33:50 UTC
From: Dave <noone@nowhere.com>
Message-ID: <i93Ml.4682$b11.2315@nwrddc02.gnilink.net>
Source record: 15824

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:c3d4bda5-5e66-4bea-bcad-1aae41f13303@21g2000vbk.googlegroups.com...
On May 3, 5:36 pm, "Dave" <no...@nowhere.com> wrote:

>You really enjoy playing the simple person. You don't find the weak
>force as believable but do find Coriolis effect believable so I gave
>you what you desire, something to believe in.

i don't find the coriolis effect to be believable in causing tilted antennas either, but its more fun to talk about that than the weak force. i find the image of watching your antenna spiral down a toilet drain amusing.

> The basic level of time in physics is based
>on the speed for a capaciter to release all its energy which is then
>replaced by a magnetic field.

so now you can define time in terms of time, sounds like another circular argument to me. it takes time to discharge and that defines time... why doesn't the time it takes to rotate the earth define time? that is more sensible and has been known to man for much longer than discharging capacitors.

2801. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 23:13:33 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtqh6s$10r$2@news.jpl.nasa.gov>
Source record: 15827

dave wrote:
> Jim Lux wrote:
>> Howard Lester wrote:
>>> "dave" wrote
>>>
>>>> A BalUn would help a lot.
>>>
>>> For what? If the antenna system is balanced (as are dipoles,
>>> inherently), I seriously doubt a balun would be good for anything.
>>>
>>
>> Most every practical dipole installation has some imbalance in the
>> installation (the trees are closer to one side than the other, etc.)..
>> a choke to prevent RF current from flowing on the outside of the
>> feedline will at least make the pattern more consistent with
>> expectations. Might make the tuning less "twitchy" too (because you've
>> decoupled the effect of things near the feedline).
>>
>> Certainly, a choke at the entrance to the shack is a great way to keep
>> RF outside.
>
> A choke wastes power.

How might this happen? The choke's not in the desired RF path (i.e. the
inside of the coax and the antenna itself)

Putting an RF impedance of, say, 5K in series with the current on the
OUTSIDE of the shield should effectively reduce the current to zero, so
there's no power being dissipated in the choke.

Yes, if you use a choke with too low an impedance, it might dissipate power.

2802. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 23:50:09 UTC
From: noname <noname@nomail.net>
Message-ID: <80k1051oj294e5k96j1dmmca0962cvhrip@4ax.com>
Source record: 15825

Tom Ring <news0004@taring.org> wrote:
>
> He's feeding it with coax, so it's not just a good idea, it's
> required.
>
> The antenna is balanced, the feedline is not. He stated the
> feedline is RG-8X.

The assembly instructions for the antenna say...

The antenna is "..designed to be used with
50 ohm coax cable. No balun is required for
proper operation.

If RF on the coax is a problem, simply wind
a "choke balun" with the coax that's used for
your feedline. Wind approx 8 turns, at about
an 8 inch diameter and tape (with outdoor rated
black electrical tape), like a donut, and place
this "donut" near the feedpoint of the antenna.
You should leave about 2 foot of your coax
sticking out of this "donut" for connection to
the antenna. Then attach the end of your
coax to the antenna connector on the center
insulator, with the coax connector that is
already on your feed line."

In other words, a scramble-winding choke near the antenna's feedpoint,
which I'll add if RF becomes an issue. As stated in my first message
("don't believe RF is an issue with a dipole," which should probably
read "major issue"), I'm much more concerned with safety and lightning
protection.

stewart / w5net

2803. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-05 23:54:34 UTC
From: noname <noname@nomail.net>
Message-ID: <j9k105lk8337unc3mimoja6mj9qda746qs@4ax.com>
Source record: 15826

Jim Lux <james.p.lux@jpl.nasa.gov> wrote:
>
> Or, easier.. put a choke around the feedline where it comes
> into the shack, so that there's no appreciable RF current
> through the chassis and green-wire ground.

Okay, I'm adding a balun. Now the question is what and where. The
assembly instructions for the antenna say...

The antenna is "..designed to be used with
50 ohm coax cable. No balun is required for
proper operation.

If RF on the coax is a problem, simply wind
a "choke balun" with the coax that's used for
your feedline. Wind approx 8 turns, at about
an 8 inch diameter and tape (with outdoor rated
black electrical tape), like a donut, and place
this "donut" near the feedpoint of the antenna.
You should leave about 2 foot of your coax
sticking out of this "donut" for connection to
the antenna. Then attach the end of your
coax to the antenna connector on the center
insulator, with the coax connector that is
already on your feed line."

In other words, a scramble-winding choke near the antenna's feedpoint.
The alternative is an MFJ-915 in-line balun with 50 ferrite core beads
on coax (cheaper than I can buy the ferrites), which MFJ says should
be installed closer to the radio (3 feet) as opposed to the antenna
feedpoint at the other end of the coax as described above.

Which of the two options is most sufficient for the task and which is
the correct placement for this - or are they both right depending on
the type?

stewart / w5net

2804. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 00:14:36 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <kdl105d9c339gm7nevb7jch64f3295k5kn@4ax.com>
Source record: 15828

On Wed, 06 May 2009 01:54:34 +0200, noname <noname@nomail.net> wrote:

>Okay, I'm adding a balun. Now the question is what and where. The
>assembly instructions for the antenna say...

Hi Stewart,

The answer to that is driven by the perceived problem. In a nutshell,
if you don't have a problem, you don't need the balun (or choke).

Knowing that you have a problem is another matter; but if you don't
know what the problem is (the perception), you wouldn't know if it got
fixed either.

73's
Richard Clark, KB7QHC

2805. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 00:26:31 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtqlfm$d5j$1@news.jpl.nasa.gov>
Source record: 15831

noname wrote:
> Jim Lux <james.p.lux@jpl.nasa.gov> wrote:
>> Or, easier.. put a choke around the feedline where it comes
>> into the shack, so that there's no appreciable RF current
>> through the chassis and green-wire ground.
>
>
> Okay, I'm adding a balun. Now the question is what and where. The
> assembly instructions for the antenna say...
>
> The antenna is "..designed to be used with
> 50 ohm coax cable. No balun is required for
> proper operation.
>
> If RF on the coax is a problem, simply wind
> a "choke balun" with the coax that's used for
> your feedline. Wind approx 8 turns, at about
> an 8 inch diameter and tape (with outdoor rated
> black electrical tape), like a donut, and place
> this "donut" near the feedpoint of the antenna.
> You should leave about 2 foot of your coax
> sticking out of this "donut" for connection to
> the antenna. Then attach the end of your
> coax to the antenna connector on the center
> insulator, with the coax connector that is
> already on your feed line."
>
> In other words, a scramble-winding choke near the antenna's feedpoint.
> The alternative is an MFJ-915 in-line balun with 50 ferrite core beads
> on coax (cheaper than I can buy the ferrites), which MFJ says should
> be installed closer to the radio (3 feet) as opposed to the antenna
> feedpoint at the other end of the coax as described above.
>
> Which of the two options is most sufficient for the task and which is
> the correct placement for this - or are they both right depending on
> the type?
>

Read Jim Brown's RFI-Ham.pdf referenced in an earlier post.

"choke baluns" made by winding coax are pretty much single band devices.

A better approach is a single 2.4" toroid of suitable mix (#31 is good),
and put a dozen turns of your RG-8x on it. Put one at the feedpoint,
put one where it comes in the shack. Buy some extra cores because they

make good RF filters for things like power cords (and the hole is big enough that a standard IEC power connector will fit through them)

The MFJ915 is fine, although I wasn't able to find any actual performance specifications or details of what mix they're using. (in a few minutes of casual googling).. MFJs is probably an incarnation of the "W2DU balun", so the data Jim measured is probably reasonable. (about 1500ohms peaking at 10MHz)

I think you'll get better results (cheaper) with the single big toroid..5 turns gives you more impedance than the W2DU, and it goes up from there (based on the measurements in K9YCs paper.. page 12). The toroids run about $5. Most of the gain is from using a better mix (31)

2806. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 00:34:45 UTC
From: noname <noname@nomail.net>
Message-ID: <hem105lb7av7q2ljgvpq7fims9b67jn1u9@4ax.com>
Source record: 15829

Richard Clark <kb7qhc@comcast.net> wrote:
>
>Hi Steve,

I assume you're talking to me since you replied to my message. My name is Stewart, not Steve.

> So, in fact your three prong plugs find their way to the
> panel ground. Can YOU find that ground?

I don't understand your question. The radio chassis is grounded to the wall outlet. The overall house wiring was recently inspected, with the grounding checked at that time. It was a thorough inspection which also included a device plugged into most outlets to check the wiring. Given that, I don't really know what I'm supposed to find and why.

> So, by this explicit statement, your "balanced" antenna
> has been unbalanced at the rig (which only further enforces
> the unbalance by virtue of the coax connection).

I guess so. Actually, I don't really know. The radio was manufactured with the chassis grounded to the wall outlet and the antenna was designed by it's manufacturer to work properly with 50 ohm coax feed connected (I would assume) to a radio like this. What impact that has on balanced versus unbalanced is beyond me, and the same is true for what exactly you want me to do about it.

stewart / w5net

2807. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 00:55:54 UTC
From: noname <noname@nomail.net>
Message-ID: <fsn105dt8pdord2qgdta39opa2f5iclbn9@4ax.com>
Source record: 15830

Richard Clark <kb7qhc@comcast.net> wrote:
>
>Hi Stewart,
>
> The answer to that is driven by the perceived problem. In a
> nutshell, if you don't have a problem, you don't need the
> balun (or choke).
>
>Knowing that you have a problem is another matter; but if
> you don't know what the problem is (the perception), you
> wouldn't know if it got fixed either.

Wow, your messages get more cryptic as they go along. I thought the very first message made it clear I'm not trying to fix a specific problem, but instead trying to head off some of the more common problems associated with a setup like this.

Again, this is an entirely a new setup which has not been installed yet. What I'm seeking here is some input on the best way to do that. I'm fairly familiar with the basics of dipole antennas, but hoping for some solid advice from those with a lot more experience than my own.

stewart / w5net

2808. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 01:31:42 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <2M5Ml.2745$fy.2570@nwrddc01.gnilink.net>
Source record: 15832

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:gBELl.16214$%54.5334@nlpi070.nbdc.sbc.com...
> John KD5YI wrote:

(snip)

> A 75m Texas Bugcatcher coil is an example of the type
> of air-core loading coil that I am talking about. It's
> about 6" diameter, 4 tpi, and 6.75" long. Dr. Corum's
> equations indicate a VF of ~0.02 for such a coil used
> on 4 MHz which makes it electrically about 28 degrees
> long.
>
>> You appear to be trying to make lumped components into distributed
>> components to suit your arguments. Shame on you.
>
> No, just the opposite. I am trying to keep others
> from considering large air-core distributed network
> loading coils to be lumped components (which they
> obviously are not). Dr. Corum says any coil electrically
> longer than 15 degrees (0.04WL) needs to be treated
> as a distrubuted network, not as a lumped-circuit.

Wake up, Cecil. The 6.75 inch long Texas Bugcatcher coil falls into the
lumped component category (being only .002WL at 75m).

John

2809. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 01:33:35 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <baf3d801-ad35-4b28-bf32-d99c37948dcb@e20g2000vbc.googlegroups.com>
Source record: 15833

On May 5, 5:33 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:c3d4bda5-5e66-4bea-bcad-1aae41f13303@21g2000vbk.googlegroups.com...
> On May 3, 5:36 pm, "Dave" <no...@nowhere.com> wrote:
>
> >You really enjoy playing the simple person. You don't find the weak
> >force as believable but do find Coriolis effect believable so I gave
> >you what you desire, something to believe in.
>
> i don't find the coriolis effect to be believable in causing tilted antennas
> either, but its more fun to talk about that than the weak force. i find the
> image of watching your antenna spiral down a toilet drain amusing.
>
> > The basic level of time in physics is based
> >on the speed for a capaciter to release all its energy which is then
> >replaced by a magnetic field.
>
> so now you can define time in terms of time, sounds like another circular
> argument to me. it takes time to discharge and that defines time... why
> doesn't the time it takes to rotate the earth define time? that is more
> sensible and has been known to man for much longer than discharging
> capacitors.

Because the magnetic field produced launches the particle which
travels at the speed of light by impact. This is the basic metric of
time. A particle emits light when it's momentum changes. Particles
carry just one color which is a measure of its frequency. There are
only three colors available but together they form the basics of all
colours. Colors emitted can be seen in the Northern lights as the
momentum changes of particles entering the Earth's medium where they
come to rest as unbound electrons on diamagnetic surfaces.
Hawkins is in hospital at the moment so you can't chat with him

2810. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 01:47:59 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <9a1f9319-68e1-46a0-9997-599995497093@e23g2000vbe.googlegroups.com>
Source record: 15834

On May 5, 7:26 pm, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> noname wrote:
> > Jim Lux <james.p....@jpl.nasa.gov> wrote:
> >> Or, easier.. put a choke around the feedline where it comes
> >> into the shack, so that there's no appreciable RF current
> >> through the chassis and green-wire ground.
>
> > Okay, I'm adding a balun. Now the question is what and where. The
> > assembly instructions for the antenna say...
>
> > The antenna is "..designed to be used with
> > 50 ohm coax cable. No balun is required for
> > proper operation.
>
> > If RF on the coax is a problem, simply wind
> > a "choke balun" with the coax that's used for
> > your feedline. Wind approx 8 turns, at about
> > an 8 inch diameter and tape (with outdoor rated
> > black electrical tape), like a donut, and place
> > this "donut" near the feedpoint of the antenna.
> > You should leave about 2 foot of your coax
> > sticking out of this "donut" for connection to
> > the antenna. Then attach the end of your
> > coax to the antenna connector on the center
> > insulator, with the coax connector that is
> > already on your feed line."
>
> > In other words, a scramble-winding choke near the antenna's feedpoint.
> > The alternative is an MFJ-915 in-line balun with 50 ferrite core beads
> > on coax (cheaper than I can buy the ferrites), which MFJ says should
> > be installed closer to the radio (3 feet) as opposed to the antenna
> > feedpoint at the other end of the coax as described above.
>
> > Which of the two options is most sufficient for the task and which is
> > the correct placement for this - or are they both right depending on
> > the type?
>
> Read Jim Brown's RFI-Ham.pdf referenced in an earlier post.
>
> "choke baluns" made by winding coax are pretty much single band devices.
>
> A better approach is a single 2.4" toroid of suitable mix (#31 is good),
> and put a dozen turns of your RG-8x on it. Put one at the feedpoint,
> put one where it comes in the shack. Buy some extra cores because they

> make good RF filters for things like power cords (and the hole is big
> enough that a standard IEC power connector will fit through them)
>
> The MFJ915 is fine, although I wasn't able to find any actual
> performance specifications or details of what mix they're using. (in a
> few minutes of casual googling).. MFJs is probably an incarnation of the
> "W2DU balun", so the data Jim measured is probably reasonable. (about
> 1500ohms peaking at 10MHz)
>
> I think you'll get better results (cheaper) with the single big
> toroid..5 turns gives you more impedance than the W2DU, and it goes up
> from there (based on the measurements in K9YCs paper.. page 12). The
> toroids run about $5. Most of the gain is from using a better mix (31)

What if you use a coax with two shields, one shield for chassis ground
which is the coax connection and the outer shield for earth/ground?
Yes, there could be a ground loop but the nearest ground to a strike/
antenna is probably the best protection

2811. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 01:56:07 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mkq105laum282aja63hhnajsho2pk9n5vt@4ax.com>
Source record: 15835

On Wed, 06 May 2009 02:55:54 +0200, noname <noname@nomail.net> wrote:

>Richard Clark <kb7qhc@comcast.net> wrote:
>>
>>Hi Stewart,
>>
>> The answer to that is driven by the perceived problem.
> I'm not trying to fix a specific problem

Then there's no reason to fix imagined ones.

>Again, this is an entirely a new setup which has not been installed
>yet.

Grounding has been covered, but, likely as not, you will have more problems there than anything over the air.

As for antennas, I've read the advice offered to you by MFJ. Belts and suspenders kind of stuff, but that is the level of advice you can expect until you discover something wrong. Do everything suggested, and then do it again at different places. [Cryptic as it seems, eventually this lesson will emerge from the reams of advice.]

You ask to prevent problems and I have pointed out they are only problems if you think (or get burnt when) they are. A bajillion operators live lives of happy operation with none of those "solutions" in place. Fix their "problems" and likely as not, nothing will get noticeably better, could eliminate some former contacts, and only make them grumpy about engineers crimping their fun.

73's
Richard Clark, KB7QHC

2812. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 02:24:49 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lsr105tgrj0vtp0lnpagrd7np7nu44iie5@4ax.com>
Source record: 15836

On Wed, 06 May 2009 02:34:45 +0200, noname <noname@nomail.net> wrote:

>> panel ground. Can YOU find that ground?
>
>
>I don't understand your question. The radio chassis is grounded to the
>wall outlet. The overall house wiring was recently inspected, with the
>grounding checked at that time. It was a thorough inspection which
>also included a device plugged into most outlets to check the wiring.
>Given that, I don't really know what I'm supposed to find and why.

Hi Stewart,

If you are going to add a ground, it has to go to the ground electrode - it is called service ground. That is located in very close proximity to the fuse box - it is called the service panel. Close inspection (by you) should reveal it. It may be a wire tied to a cold water feed from the city services.

>> So, by this explicit statement, your "balanced" antenna
>> has been unbalanced at the rig (which only further enforces
>> the unbalance by virtue of the coax connection).
>
>
>I guess so. Actually, I don't really know. The radio was manufactured
>with the chassis grounded to the wall outlet and the antenna was
>designed by it's manufacturer to work properly with 50 ohm coax feed
>connected (I would assume) to a radio like this. What impact that has
>on balanced versus unbalanced is beyond me, and the same is true for
>what exactly you want me to do about it.

A purist's balanced antenna is connected to a twin lead, or open wire pair. This transmission line goes to the purist's special tuner with a balanced connection. Many cheap tuners pretend to offer this option. Expensive tuners the purists use pretend to do it too. At some point, one of those two wires (if you were using twin lead) would go to the chassis. This would make it unbalanced, and this unbalance would be cast back into the antenna making it unbalanced. There are tuners that do it right, but you have to look under the hood and verify their claims.

Using a coax means you are using a conventional connector with a collar (bayonet style or screw type) that connects directly to the chassis. BINGO! Your system is unbalanced. But it was unbalanced before it got there, and the connection only enforced it. The coax offers what is called the "third wire" to the dipole with its shield

(the shield exterior is a separate circuit to its interior circuit). When you use a coax with a dipole, you are making it a tripole, with one leg of indeterminate length. You can reduce the third circuit path effect through choking.

If you cared about the state of balance, then you can take steps to reachieve balance. One is to choke the feed point at the antenna, and then choke it again a quarter wave down from that point. You can (as suggested by Jim) choke the ground as well. You can (as suggested by MFJ) choke the transmitter end of the coax. Each brings an additional degree of isolation, and attempts to bring balance. Unfortunately, balance is also a function of what physical distance and bulk relations each arm of the antenna sees. Nature and homes rarely exist with perfect symmetry (another name for balance) to serve an antenna.

You could add a chimney stack to the other end of the house, and rearrange furniture (and occupants) inside to help, but life is short. Got trees? If you are operating 80 meters, anything within 100 feet is fair game for the balance sheet.

As for impact, there is every chance you don't need to do anything but insure a good safety ground. If your chassis bites you during transmission, then, yes, add some chokes (see thread). If your antenna picks up signals from directions you had pointed the antenna away from, then, yes, add some chokes (see thread). If you cannot tune the antenna on some bands, maybe (just maybe), add some chokes (see thread).

73's
Richard Clark, KB7QHC

2813. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 02:29:05 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a00f610$0$92354$8046368a@newsreader.iphouse.net>
Source record: 15837

Howard Lester wrote:
> "Tom Ring" wrote
>
>> He's feeding it with coax, so it's not just a good idea, it's required.
>>
>> The antenna is balanced, the feedline is not. He stated the feedline is
>> RG-8X.
>
> I know that, and just because it's balanced to unbalanced, it's not
> *required.* The antenna system can work just fine without one. In some
> cases, at least according to the late Lew McCoy, it can do more harm than
> good. If the antenna system is inherently unbalanced due to one leg being,
> say, in greater proximity to metal and other objects, then I would consider
> using some kind of balun or choke system.
>
>

Well, I'm not going to argue with someone who thinks that placing a
balun between an unbalanced feed and a balanced load could ever possibly
do more harm than good.

It would be a utter waste of time.

tom
K0TAR

2814. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 02:54:11 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a00fba6$0$18869$8046368a@newsreader.iphouse.net>
Source record: 15838

Howard Lester wrote:
> "Tom Ring" wrote
>
>> He's feeding it with coax, so it's not just a good idea, it's required.
>>
>> The antenna is balanced, the feedline is not. He stated the feedline is
>> RG-8X.
>
> I know that, and just because it's balanced to unbalanced, it's not
> *required.* The antenna system can work just fine without one. In some
> cases, at least according to the late Lew McCoy, it can do more harm than
> good. If the antenna system is inherently unbalanced due to one leg being,
> say, in greater proximity to metal and other objects, then I would consider
> using some kind of balun or choke system.
>
>

Sorry, I forgot to add

PLONK!

tom
K0TAR

2815. Re: Antenna to dangle over a cliff

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 03:18:34 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <abbcd598-0b8f-4f33-b656-5aca20948f2a@n8g2000vbb.googlegroups.com>
Source record: 15839

On May 5, 5:05 pm, Ross <rjtu...@gmail.com> wrote:
> Dear list-
>
> I was just wondering about the performance of a long wire dangled over
> a cliff? Our Field Day location is on the Mogollon Rim
(http://en.wikipedia.org/wiki/Mogollon_Rim) of Northern Arizona. We
> really like the view, but I was wondering if it might not be useful
> for antenna experimentation, too.
>
> My thought is to use a fiberglass pole at a 45deg angle to hold a
> weighted antenna line off from the cliff face, although some locations
> even have pretty good overhangs. Then we could use either an inverted-
> L configuration, running feedline along the support pole and bringing
> the horizontal part up to a tree near the edge, or just go with a
> really long end-fed antenna.
>
> Any thoughts on this? I couldn't find anything written about this via
> google. All constructive comments are welcomed.
>
> 73 de NS7F,
> Ross Tucker

Ive done that with the bottom half of a dipole hanging off a bridge.
This put the bottom end of the 40m dipole about 100ft off the ground.

Jimmie

2816. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 03:53:35 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <JtSdndaK8-lflJzXnZ2dnUVZ_r5i4p2d@posted.easystreetonline>
Source record: 15840

Some of the participants here might find
http://eznec.com/Amateur/Articles/Baluns.pdf interesting.

Roy Lewallen, W7EL

2817. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 04:55:08 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <NK8Ml.40465$HZ1.5800@newsfe15.iad>
Source record: 15841

"noname" <noname@nomail.net> wrote in message
news:fsn105dt8pdord2qgdta39opa2f5iclbn9@4ax.com...

>
> Again, this is an entirely a new setup which has not been installed
> yet. What I'm seeking here is some input on the best way to do that.
> I'm fairly familiar with the basics of dipole antennas, but hoping for
> some solid advice from those with a lot more experience than my own.
>

Matching issues aside, common thinking on the balun issue is that it greatly attenuates current on the outside of the coax.

In certain rare cases, I suppose such current could be a good thing, giving additional radiation in a desired direction, but I'd never try to predict it or control it. Use the balun because the benefits of keeping the RF "out there" are considerable: Less TVI, no false ringing of your telephones, less squawking from your computer speakers, no computer mouse or keyboard doing its own thing, no cable modem resetting itself, no RF burns on your fingertips (although there are other ways to get them, hi-hi).

The lack of a balun may not cause every listed malady, above, but that's a short list of some that I have caused or witnessed from a quick-rig antenna that didn't have a balun. They went away when one was installed.

2818. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 07:09:07 UTC
From: "Geoffrey S. Mendelson" <gsm@mendelson.com>
Message-ID: <slrnh02dk2.ham.gsm@cable.mendelson.com>
Source record: 15842

Tom Ring wrote:

> Well, I'm not going to argue with someone who thinks that placing a
> balun between an unbalanced feed and a balanced load could ever possibly
> do more harm than good.

That's because you are calling it a dipole and assuming it is a balanced antenna. In reality, it's a quarter wave sideways vertical wire antenna, with a single quarter wave radial at the feed point.

See, now it all makes sense. :-)

Or a quarter wave end fed horizontal antenna with a single tuned feed point radial.

Not only that, I wonder if I can patent them, and sell them via a web site for big bucks.

Geoff.

--
Geoffrey S. Mendelson, Jerusalem, Israel gsm@mendelson.com N3OWJ/4X1GM

2819. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 08:29:06 UTC
From: Jon Kåre Hellan LA4RT <dev@null.com>
Message-ID: <1mzldqk52l.fsf@persaunet.uninett.no>
Source record: 15843

Jim Lux <james.p.lux@jpl.nasa.gov> writes:

> dave wrote:
>> Jim Lux wrote:
>>
>>
>>> Do you use a balun at the antenna
>>>> feedpoint? How do you tune the inverted-V?
>>>
>>> Good RF chokes on the coax at the feedpoint and at the point of
>>> entry would go a long way to eliminating any "RF in the shack"
>>> problems. A couple 2.4" 31 mix cores with half a dozen turns on
>>> them, for instance.
>>>
>>> Whether the V is tuned or not won't have any effect on RFI or grounding.
>>
>> A BalUn would help a lot.
>
> Balun/choke.. tomato, tomato.. they're really all the same thing.
> Keep the RF off the outside of the coax.
>
>
>>
>> Since we are sticklers for the NEC, Homey needs a #6 wire from where
>> the transmission line enters the dwelling to an 8' copper clad rod
>> driven into the earth, as close as practicable.

Turns out he's located in Germany, so U.S. codes aren't particularly
relevant. If anything, German codes are probably stricter. But almost
certainly different.

Jon LA4RT

>
> The communications system (be it CATV, net powered broadband, amateur,
> etc.) would need to be bonded to any of the usual things that form the
> grounding/bonding system,e.g, one could "ground" through the metal
> conduit.
>
> A ground rod is, of course, not recommended in the current codes as a
> made electrode, and in any case, the code doesn't necessarily require
> a specially installed ground for this purpose. If you DO install
> another ground, then it has to be bonded with AWG #6 copper (or
> bigger) (can't use the conduit)
>

> Telephone has different rules. Must have electrode/grounding means as
> close as practicible to point of entrance, and the ground wire has to
> be AWG14 or large, insulated, in as straight a line as possible.
>
> Metal structure supporting outdoor antenna systems have to be grounded
> with AWG10 or bigger copper, AWG8 aluminum, or AWG17 copperclad steel,
> straight line. (the size requirement is for mechanical strength, not
> conductivity, which is why the copperweld(r) can be smaller)
>
> So you have these weird situations where the phone protection block
> has to be connected with AWG14 insulated to a grounding electrode as
> close as practicible, but then, because of the "bonding of electrodes"
> rules, you have to connect that electrode to the "house ground" with
> nothing smaller than AWG6.
>
> CATV is even different.. grounding block for drop has to be grounded
> to an electrode close to block and an *insulated* AWG14 or bigger run
> to bond with the rest of the house's grounding system.
>
>
> This sort of thing is why most ham installations aren't "code
> compliant"... heck, you could go insane trying to wend your way
> through the thicket of rules for the NEC. And that doesn't even begin
> to get into the transient suppression guidelines and/or NFPA 780
> lightning protection rules.
>
>
>
>>
>>

2820. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 12:05:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <R1fMl.32673$ZP4.23078@nlpi067.nbdc.sbc.com>
Source record: 15844

John KD5YI wrote:
> Wake up, Cecil. The 6.75 inch long Texas Bugcatcher coil falls into the
> lumped component category (being only .002WL at 75m).

Sorry John, we are not talking about *physical* length
- we are talking about *electrical* length which, like
a piece of coax, depends upon the velocity factor. The
velocity factor for a Texas Bugcatcher coil is ~0.02.

6.75"/0.02=337.5", 337.5"/12 = 28 feet,
28'/(246'/lamda) = 0.114 WL

Thus a 75m Texas Bugcatcher loading coil is electrically
about 41 degrees long at 4 MHz. Hint: It is a slow-wave
structure described in "Fields and Waves ..." by
Ramo, Whinnery, and Van Duzer, 3rd edition, page 476.

The equation for the approximate velocity factor for
an RF coil meeting the specified physical conditions
is given in equation 32 on page 4 of:

http://www.ttr.com/TELSIKS2001-MASTER-1.pdf

Fig. 1 gives the VF for various diameter/wavelength
ratios and turns/wavelength. Here's how to determine
the VF from the Fig. 1 graph.

For the coil in question, calculate the
diameter/wavelength ratio and plot it on the x axis.

The diameter/wavelength ratio for the Texas Bugcatcher
is ~0.5/246 = 0.002, i.e. 2x10^-3 on the graph.

For the coil in question, calculate the
turns/wavelength ratio and select the proper curve.

The turns/wavelength ratio for the Texas Bugcatcher
is 4tpi*12*246' = 11,800, i.e. slightly to the left
of the left-most 10k curve.

That puts the Texas Bugcatcher squarely in the slow-
wave category with a velocity factor of ~0.02.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2821. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 12:10:22 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a017e4b$0$92352$8046368a@newsreader.iphouse.net>
Source record: 15845

Roy Lewallen wrote:
> Some of the participants here might find
> http://eznec.com/Amateur/Articles/Baluns.pdf interesting.
>
> Roy Lewallen, W7EL

Thanks Roy. Read it a while ago, but good to get a refresher.

tom
K0TAR

2822. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 12:13:00 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <h9fMl.32674$ZP4.23415@nlpi067.nbdc.sbc.com>
Source record: 15846

Art Unwin wrote:
> Particles
> carry just one color which is a measure of its frequency.

This is true for orbital electrons but not true for
free electrons as exist in conductors like copper
and aluminum. Free electrons can emit photons of any
frequency. We change the transmitting frequency of
the photons by adjusting our VFOs to virtually
limitless frequencies.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2823. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 12:16:31 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a017f70$0$18865$8046368a@newsreader.iphouse.net>
Source record: 15847

Geoffrey S. Mendelson wrote:
>
> That's because you are calling it a dipole and assuming it is a balanced
> antenna. In reality, it's a quarter wave sideways vertical wire antenna, with
> a single quarter wave radial at the feed point.
>
> See, now it all makes sense. :-)
>
> Or a quarter wave end fed horizontal antenna with a single tuned feed
> point radial.
>
> Not only that, I wonder if I can patent them, and sell them via a web site
> for big bucks.
>
> Geoff.
>

You need to have a chat with Billy Mays. If he hasn't made it to
networks in that part of the world, you're lucky.

HI I'M BILLY MAYS FOR THE HYPER-Q ANTENNA!!!!

THIS PATENTED DESIGN OUTPERFORMS EVEN A DIPOLE!!!! ....

2824. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 12:16:59 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1dfMl.32675$ZP4.17803@nlpi067.nbdc.sbc.com>
Source record: 15848

Sal M. Onella wrote:
> In certain rare cases, I suppose such current could be a good thing, giving
> additional radiation in a desired direction, but I'd never try to predict it
> or control it.

The Carolina Windom folk advertise feedline
radiation as an advantage over other antennas
and charge extra $ for it. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2825. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 16:36:43 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtsear$7ee$1@news.jpl.nasa.gov>
Source record: 15850

> What if you use a coax with two shields, one shield for chassis ground
> which is the coax connection and the outer shield for earth/ground?
> Yes, there could be a ground loop but the nearest ground to a strike/
> antenna is probably the best protection

You'll still need to deal with RF currents flowing on the outside of the coax (and also potentially between inner and outer shields).

A good transient suppression scheme at the entry point deals with the overvoltages from lightning, power lines falling on your antenna, etc.

The challenge is in protecting a sensitive receiver front end, while not introducing other problems: if the receiver burns out at 1Volt, a clamp at 300V isn't going to save the front end, although it will keep the radio from catching on fire. A diode clamp to the supply rails or similar will save the front end, but will almost certainly result in IMD issues with strong input signals. Sometimes, the front end just has to be the sacrificial "fuse", so you want to make sure that it's a cheap & replaceable part that suffers.

2826. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 16:39:14 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtsefh$7ee$2@news.jpl.nasa.gov>
Source record: 15849

Jon Kï¿½re Hellan LA4RT wrote:
> Jim Lux <james.p.lux@jpl.nasa.gov> writes:
>
>> dave wrote:
>>> Jim Lux wrote:
>>>
>>>
>>>> Do you use a balun at the antenna
>>>>> feedpoint? How do you tune the inverted-V?
>>>> Good RF chokes on the coax at the feedpoint and at the point of
>>>> entry would go a long way to eliminating any "RF in the shack"
>>>> problems. A couple 2.4" 31 mix cores with half a dozen turns on
>>>> them, for instance.
>>>>
>>>> Whether the V is tuned or not won't have any effect on RFI or grounding.
>>> A BalUn would help a lot.
>> Balun/choke.. tomato, tomato.. they're really all the same thing.
>> Keep the RF off the outside of the coax.
>>
>>
>>> Since we are sticklers for the NEC, Homey needs a #6 wire from where
>>> the transmission line enters the dwelling to an 8' copper clad rod
>>> driven into the earth, as close as practicable.
>
> Turns out he's located in Germany, so U.S. codes aren't particularly
> relevant. If anything, German codes are probably stricter. But almost
> certainly different.
>
> Jon LA4RT
>

Yes indeed. It's not like there's any universal consistency in the U.S.
either.

I recommend IEEE Std 1100 for people who really care. (and it is an
international standard, so it addresses most of the regulatory issues
regardless of location)

2827. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 19:46:04 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <d636b82a-6b7b-4aa9-9112-77857d39260a@x6g2000vbg.googlegroups.com>
Source record: 15751

On May 6, 11:36 am, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> > What if you use a coax with two shields, one shield for chassis ground
> > which is the coax connection and the outer shield for earth/ground?
> > Yes, there could be a ground loop but the nearest ground to a strike/
> > antenna is probably the best protection
>
> You'll still need to deal with RF currents flowing on the outside of the
> coax (and also potentially between inner and outer shields).
>
> A good transient suppression scheme at the entry point deals with the
> overvoltages from lightning, power lines falling on your antenna, etc.
>
> The challenge is in protecting a sensitive receiver front end, while not
> introducing other problems: if the receiver burns out at 1Volt, a clamp
> at 300V isn't going to save the front end, although it will keep the
> radio from catching on fire. A diode clamp to the supply rails or
> similar will save the front end, but will almost certainly result in IMD
> issues with strong input signals. Sometimes, the front end just has to
> be the sacrificial "fuse", so you want to make sure that it's a cheap &
> replaceable part that suffers.

Let me try again and put it another way. What if:
The transmission line is a two parallel wire system.This is enclosed
in one sided metalized mylar isolated shielding Total covered with
insulation and wire netting for true ground ? All of the above buried
in ground

2828. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 21:05:01 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <1YmMl.2902$fy.1873@nwrddc01.gnilink.net>
Source record: 15752

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:R1fMl.32673$ZP4.23078@nlpi067.nbdc.sbc.com...
> John KD5YI wrote:
>> Wake up, Cecil. The 6.75 inch long Texas Bugcatcher coil falls into the
>> lumped component category (being only .002WL at 75m).
>
> Sorry John, we are not talking about *physical* length
> - we are talking about *electrical* length which, like
> a piece of coax, depends upon the velocity factor. The
> velocity factor for a Texas Bugcatcher coil is ~0.02.

I think any inductor with the same inductance, Q, and self-resonant frequency will give the same velocity factor and delay as your Bugcatcher. I don't think that neither the coil nor the "stinger" knows how the inductor is constructed. I think the slight difference due to radiation from the Bugcatcher can be ignored since it is small physically.

I think you will measure the same velocity factor with any other coil that gives the same inductance, Q, and self-resonant frequency regardless of whether it is wound on air, a toroid core, a ferrite rod, or a beer can. If so, then that coil will be a distributed component according to you because it meets the electrical requirements.

John

2829. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 21:15:36 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gtsuloacj2@news.jpl.nasa.gov>
Source record: 15753

Art Unwin wrote:
> On May 6, 11:36 am, Jim Lux <james.p....@jpl.nasa.gov> wrote:
>>> What if you use a coax with two shields, one shield for chassis ground
>>> which is the coax connection and the outer shield for earth/ground?
>>> Yes, there could be a ground loop but the nearest ground to a strike/
>>> antenna is probably the best protection
>> You'll still need to deal with RF currents flowing on the outside of the
>> coax (and also potentially between inner and outer shields).
>>
>> A good transient suppression scheme at the entry point deals with the
>> overvoltages from lightning, power lines falling on your antenna, etc.
>>
>> The challenge is in protecting a sensitive receiver front end, while not
>> introducing other problems: if the receiver burns out at 1Volt, a clamp
>> at 300V isn't going to save the front end, although it will keep the
>> radio from catching on fire. A diode clamp to the supply rails or
>> similar will save the front end, but will almost certainly result in IMD
>> issues with strong input signals. Sometimes, the front end just has to
>> be the sacrificial "fuse", so you want to make sure that it's a cheap &
>> replaceable part that suffers.
>
> Let me try again and put it another way. What if:
> The transmission line is a two parallel wire system.This is enclosed
> in one sided metalized mylar isolated shielding Total covered with
> insulation and wire netting for true ground ? All of the above buried
> in ground

Well, sure.. (leaving aside the problems of running a two wire line
inside a tube) At some point, though, something's got to emerge from
the shielded cage or it's not a electric dipole antenna. (One can make
a totally shielded loop antenna, of course)

2830. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 22:35:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <YgoMl.28724$yr3.7591@nlpi068.nbdc.sbc.com>
Source record: 15754

John KD5YI wrote:
> I think any inductor with the same inductance, Q, and self-resonant
> frequency will give the same velocity factor and delay as your
> Bugcatcher.

That may or may not be true - I don't have an
opinion one way or another - and it is NOT part
of my argument. My argument deals only with
75m Texas Bugcatcher coils and other large air-
core loading coils used on 75m.

My argument is that the velocity factor of a 75m
Texas Bugcatcher coil is ~0.02, occupies ~41
electrical degrees on 4 MHz, and exhibits a
delay of ~28 nS through the coil. That is my only
argument. I am not interested in diversions from
that argument.

My argument also includes the 100 turn, 10 inch long,
2 inch diameter coil that w8ji used for his 3 nS delay
"measurements". If he had used traveling wave current
for the measurement, he would have measured approximately
25 nS.

Maxwell's equations for slow-wave structures (like
a 75m Texas Bugcatcher loading coil) are given in
"Fields and Waves ...", by Ramo and Whinnery:
pages 467-479 in the 2nd edition. This is one of
the references in the Corum IEEE paper.

What do you make of Roy's (w7el) statement at:

http://www.w8ji.com/agreeing_measurements.htm

"As described in my posting on rraa of November 11,
the inductor 'replaces' about 33 electrical degrees
of the antenna."
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2831. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 22:54:53 UTC
From: Dave <noone@nowhere.com>
Message-ID: <1zoMl.2931$fy.1014@nwrddc01.gnilink.net>
Source record: 15755

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:baf3d801-ad35-4b28-bf32-d99c37948dcb@e20g2000vbc.googlegroups.com...
On May 5, 5:33 pm, "Dave" <no...@nowhere.com> wrote:
>Because the magnetic field produced launches the particle which
>travels at the speed of light by impact. This is the basic metric of
>time. A particle emits light when it's momentum changes. Particles
>carry just one color which is a measure of its frequency. There are
>only three colors available but together they form the basics of all
>colours. Colors emitted can be seen in the Northern lights as the
>momentum changes of particles entering the Earth's medium where they
>come to rest as unbound electrons on diamagnetic surfaces.
>Hawkins is in hospital at the moment so you can't chat with him

only 3 colors eh? if the particles can only carry one of 3 frequencies how
do they generate 160m frequencies? 80m frequencies?? the whole range of
hf, vhf, uhf, mf, lf, etc, etc, etc... the whole spectrum of electromagnetic
waves can't come from just 3 basic frequencies.

2832. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-06 23:49:22 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8a517e4a-ca38-4518-8c8e-0e82281d9859@t10g2000vbg.googlegroups.com>
Source record: 15756

On May 6, 5:54 pm, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:baf3d801-ad35-4b28-bf32-d99c37948dcb@e20g2000vbc.googlegroups.com...
> On May 5, 5:33 pm, "Dave" <no...@nowhere.com> wrote:
>
> >Because the magnetic field produced launches the particle which
> >travels at the speed of light by impact. This is the basic metric of
> >time. A particle emits light when it's momentum changes. Particles
> >carry just one color which is a measure of its frequency. There are
> >only three colors available but together they form the basics of all
> >colours. Colors emitted can be seen in the Northern lights as the
> >momentum changes of particles entering the Earth's medium where they
> >come to rest as unbound electrons on diamagnetic surfaces.
> >Hawkins is in hospital at the moment so you can't chat with him
>
> only 3 colors eh? if the particles can only carry one of 3 frequencies how
> do they generate 160m frequencies? 80m frequencies?? the whole range of
> hf, vhf, uhf, mf, lf, etc, etc, etc... the whole spectrum of electromagnetic
> waves can't come from just 3 basic frequencies.

I don't know about waves but my understanding is that all colors come
from the mixing
of the three basic colors, or is it four? When you mix frequencies I
would imagine you could arrive at all possible frequencies. I think
you should drop the idea of waves with respect to frequency. If you
observe a rainbow how many basic colors are there in the mix! In a
projector isn't there just three filters required for a movie in
color? One thing you have to get into your mind is the idea of basic
temperature and mass without energy. the case prior to the big bang.
The temperature aspect is very important input
of the inpact of energy at the initial stage where decelleration of a
particle in a changing medium generates a change in temperature which
is also synonimous with particle temperature. You are for ever
compartmentizing every thing as if there are no connections to be had
as per G.U.T. or more to the point static versus dynamic fields.
You are way to quick to say that you can't and should listen to OBAMA
who states yes we can.

2833. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 00:00:29 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtt8bkmpm1@news.service.uci.edu>
Source record: 15758

Cecil Moore wrote:
> Jim Kelley wrote:
>> How well does your answer compare with the curves in Fig. 1 given the
>> number of turns in a Bugcatcher coil?
>
> Since the curves are generated from the equation,
> they should match perfectly. As a matter of fact,
> I have a dot on that graph at 0.004 and 5k. The
> VF is ~0.02.

Presumably there is a lower limit to the number of turns the coil would have to have, or an upper limit to the pitch angle, in order to behave as described - a helical sheath. Tesla coils usually have at least a few hundred turns wound closely together, and often operate at wavelengths considerably longer that 75 meters. One could easily argue that 30 turns do not a Tesla coil make, in which case Eq. 32 would not apply.

ac6xg

2834. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 00:05:36 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <mBpMl.21841$as4.14650@nlpi069.nbdc.sbc.com>
Source record: 15757

Art Unwin wrote:
> I don't know about waves but my understanding is that all colors come
> from the mixing of the three basic colors, or is it four?

That's the RGB standard designed for fooling human
eyes into seeing more than just red, green, and blue.
Photons in nature come in *all* EM frequencies.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2835. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 00:22:24 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <4RpMl.4873$b11.349@nwrddc02.gnilink.net>
Source record: 15759

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:YgoMl.28724$yr3.7591@nlpi068.nbdc.sbc.com...
> John KD5YI wrote:
>> I think any inductor with the same inductance, Q, and self-resonant
>> frequency will give the same velocity factor and delay as your
>> Bugcatcher.
>
> That may or may not be true - I don't have an
> opinion one way or another - and it is NOT part
> of my argument. My argument deals only with
> 75m Texas Bugcatcher coils and other large air-
> core loading coils used on 75m.

If it IS true, then the point I tried to make that you are making a distributed component from a lumped one is valid. That's what caused me to object to your earlier post.

And, by the way, I feel the same way you do except about people who are afraid to consider lumped components. Perhaps they do not have what it takes to judge when a proper substitution can be made.

John

2836. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 01:25:37 UTC
From: dplatt@radagast.org
Message-ID: <htp9d6-vg5.ln1@radagast.org>
Source record: 15760

Art Unwin wrote:
>> I don't know about waves but my understanding is that all colors come
>> from the mixing of the three basic colors, or is it four?

Your understanding is in error... at least, if you're referring to colors in terms of actual photon behavior (energy and wavelength) rather than to the human *perception* of color.

>That's the RGB standard designed for fooling human
>eyes into seeing more than just red, green, and blue.

Yup. And, the red/green/blue system is an artifact of the human visual system... most of us happen to have three different types of photo-sensitive molecules in the cone cells in our eyes, and these three types of molecules have their peak receptivities at the frequencies that we refer to as "red", "green", and "blue."

There seems to be some amount of genetic variation, among humans, in the exact frequencies at which the peak sensitivies lie. And, some people have are missing one or more of these types of photoreceptor, and are referred to as "colorblind".

There are apparently some humans who have four different types of photopigment, and thus may have an improved ability to perceive distinctions between colors. Certain species of animal are known to have four photopigments (one for e.g. UV sensitivity) and I wouldn't be surprised if some species have five or more variants.

>Photons in nature come in *all* EM frequencies.

Yup again. It's an interesting process:

- Light comes in a continuous range of frequencies.

- Our eyes "sample" this continous range, with three types of sensor having different-but-overlapping sensitivities. Each sensor generates a variable amplitude (or pulse train) based on the intensity that it's detecting, within its sensitivity range.

- Our nervous system maps the three amplitudes back into a perception of a continuous range of colors.

The process is far from perfect... information is lost during the sampling process, and thus the perception of a continuous spectrum is necessarily flawed and imperfect.

This is why a mixture of two different pure colors (e.g. red and green) can look like a single pure color to our eyes (e.g. yellow or

amber)... it happens to excite the red and green photosensors in the
same proportion that a single, pure-yellow light would. Mixed
together, the colors look like one... split them apart with a prism
and you can easily distinguish them and see the trick.

[Almost] All Is Illusion.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

2837. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 01:37:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7166bd02-e5e9-4dae-b074-763dad938ba0@z5g2000vba.googlegroups.com>
Source record: 15761

On May 6, 7:05 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > I don't know about waves but my understanding is that all colors come
> > from the mixing of the three basic colors, or is it four?
>
> That's the RGB standard designed for fooling human
> eyes into seeing more than just red, green, and blue.
> Photons in nature come in *all* EM frequencies.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil
Seems like this thing called photon is the magic article that created
the big bang.
You attribute everything to the photon but I don't think physics as
got a proper handle on it! Heck, only a few years ago they said a
particle could exist without mass.If a particle emitted from the Sun's
boundary(lepton?) deaccellerated in a particular medium
and broke apart into many electrons, then would not heat or light be
emitted as kinetic energy contained in the particles of different
sizes representing the spectrum
of a particular color with respect to potential energy contained in
the various sized particles? Does your photon come in different sizes,
color and potential energy?
My understanding is that there are about seven leptons that break away
from the Sun's boundary, three of which contains color attributes
along with other flavours which is indicative of temperature and
change in momentum.
I think it is to early to argue about such a subject.

2838. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 02:03:45 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <DdrMI.18026$D32.6524@flpi146.ffdc.sbc.com>
Source record: 15762

Cecil Moore wrote:
> John KD5YI wrote:
>> I think any inductor with the same inductance, Q, and self-resonant
>> frequency will give the same velocity factor and delay as your
>> Bugcatcher.
>
> That may or may not be true - I don't have an
> opinion one way or another - and it is NOT part
> of my argument. My argument deals only with
> 75m Texas Bugcatcher coils and other large air-
> core loading coils used on 75m.
>
> My argument is that the velocity factor of a 75m
> Texas Bugcatcher coil is ~0.02, occupies ~41
> electrical degrees on 4 MHz, and exhibits a
> delay of ~28 nS through the coil. That is my only
> argument. I am not interested in diversions from
> that argument.

Meaning you don't want anyone to disagree with you.

>
> My argument also includes the 100 turn, 10 inch long,
> 2 inch diameter coil that w8ji used for his 3 nS delay
> "measurements". If he had used traveling wave current
> for the measurement, he would have measured approximately
> 25 nS.

No he wouldn't. You don't know what he would have measured.
You don't know how to measure it yourself because you don't have
any idea of what's going on, theoretically.

>
> Maxwell's equations for slow-wave structures (like
> a 75m Texas Bugcatcher loading coil) are given in
> "Fields and Waves ...", by Ramo and Whinnery:
> pages 467-479 in the 2nd edition. This is one of
> the references in the Corum IEEE paper.

Maxwell's equations don't say anything about "slow-wave
structures." If they did, you couldn't understand the vector
calculus involved, anyway. This is more picking and choosing
from authorities.

>
> What do you make of Roy's (w7el) statement at:

>
> http://www.w8ji.com/agreeing_measurements.htm
>
> "As described in my posting on rraa of November 11,
> the inductor 'replaces' about 33 electrical degrees
> of the antenna."

Are you sure that isn't a quote from Reg Edwards, whose ideas you stole in the first place? Reg thought that antennas were transmission lines. There's nothing wrong with that. Reg even worked out some practical formulas based on his ideas that seemed to work well enough for who they were for. What he didn't do was discover any laws of nature, any more than you have.

73,
Tom Donaly, KA6RUH

2839. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 02:12:39 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <vsrMl.26148$c45.12765@nlpi065.nbdc.sbc.com>
Source record: 15763

John KD5YI wrote:
>
> "Cecil Moore" <nospam@w5dxp.com> wrote in message
> news:YgoMl.28724$yr3.7591@nlpi068.nbdc.sbc.com...
>> John KD5YI wrote:
>>> I think any inductor with the same inductance, Q, and self-resonant
>>> frequency will give the same velocity factor and delay as your
>>> Bugcatcher.
>>
>> That may or may not be true - I don't have an
>> opinion one way or another - and it is NOT part
>> of my argument. My argument deals only with
>> 75m Texas Bugcatcher coils and other large air-
>> core loading coils used on 75m.
>
> If it IS true, then the point I tried to make that you are making a
> distributed component from a lumped one is valid. That's what caused me
> to object to your earlier post.
>
> And, by the way, I feel the same way you do except about people who are
> afraid to consider lumped components. Perhaps they do not have what it
> takes to judge when a proper substitution can be made.
>
> John

Anyone can take a small inductor, such as Roy described, and try to
analyze all the currents and such in it using a distributed model at low
or moderate frequencies. If they do, though, they'll just come up with
what they'd have come up with treating their small inductor as a
lumped element. Cecil has distributed elements on the brain. It's what
comes of falling in love with your own theories.
73,
Tom Donaly, KA6RUH

2840. Re: Antenna to dangle over a cliff

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 02:31:52 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <pFrMl.38087$v8.26165@bignews3.bellsouth.net>
Source record: 15764

just 5 words:
Big Helium Balloons Dangle upward
w4pmj

"Ross" <rjtucke@gmail.com> wrote in message
news:6a5bbd71-c1d8-4db1-af06-5bd416d2affe@s31g2000vbp.googlegroups.com...
> Dear list-
>
> I was just wondering about the performance of a long wire dangled over
> a cliff? Our Field Day location is on the Mogollon Rim (
> http://en.wikipedia.org/wiki/Mogollon_Rim) of Northern Arizona. We
> really like the view, but I was wondering if it might not be useful
> for antenna experimentation, too.
>
> My thought is to use a fiberglass pole at a 45deg angle to hold a
> weighted antenna line off from the cliff face, although some locations
> even have pretty good overhangs. Then we could use either an inverted-
> L configuration, running feedline along the support pole and bringing
> the horizontal part up to a tree near the edge, or just go with a
> really long end-fed antenna.
>
> Any thoughts on this? I couldn't find anything written about this via
> google. All constructive comments are welcomed.
>
> 73 de NS7F,
> Ross Tucker

2841. Seeking New FAQ/Intro Maintainers for rec.radio.amateur.*

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 06:05:00 UTC
From: rram@panix.com
Message-ID: <radio/ham-radio/recruitment-1-1241676300@panix.com>
Source record: 15765
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.dx,rec.radio.amateur.equipment,rec.radio.amateur.homebrew,rec.radio.amateur.misc,rec.radio.amateur.policy,rec.radio.info

```
Posted-By: auto-faq 3.3.2 beta (PGPMoose V2.0, Perl 5.005)
Archive-name: radio/ham-radio/recruitment
Revision: 1.1 2007/09/29 18:42:47
Posting-Frequency: posted monthly
URL: http://www.faqs.org/faqs/radio/personal-intro/

Changes followed by "|".

The rec.radio.info newsgroup, first established in 1993, has been
recently revived by an active moderation team. We are currently seeking
suitable information, FAQ, and bulletin articles from the entire
rec.radio.* newsgroup hierarchy for simultaneous cross-posting to our
newsgroup.

We are seeking a replacement maintainer for the following information
bulletin formerly posted to rec.radio.amateur.* (and currently archived
at http://www.faqs.org/faqs/radio/personal-intro/ ):

radio/personal-intro
Subject: Guide to the rec.radio Newsgroups
Maintainer: jeffreyh@Hawaii.Edu (Jeffrey Herman)
Last Posted: 9 Nov 2001 06:18:17 GMT
Posting-Frequency: 15th of each month

We are willing to provide any technical support necessary to get this
article updated and automatically posted again at a regular interval.
This would include establishing contact with the original maintainer for
any necessary permissions. We would prefer to seek a new, dedicated
maintainer at this time, rather than start auto-posting the original
article ourselves.

For more information about our newsgroup, see:

http://www.panix.com/~rram/usenet/rri/index.html

Please direct any comments, questions, or criticisms to
rec-radio-info-request@panix.com.
```

2842. Re: Parallel ground planes

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 10:17:12 UTC
From: regencycb <regencycb.448be09@radiobanter.com>
Message-ID: <regencycb.448be09@radiobanter.com>
Source record: 15773

Bruce W. Ellis;675361 Wrote:
> I have a question for the antenna gurus. I have a 40m groundplane
> (base about 10 feet up, sloping radials). It works fine on 40 and
> gives a reasonable swr on 15, although, I'm sure, too much high angle
> radiation. What would happen if I put a 15m gp element in parallel
> with the 40m? Or (I suspect) would it be better to parallel the15m
> element with my separate 20m gp and (if the sunspots ever come back)
> parallel the 40m element with a 10m element. I'd rather not put up 4
> separate gp's (for family reasons). TNX W0BF

Yes seperate the vertical elements a few inches and tie them together
at the feedpoint. works great some interaction when tuning each for
lowest swr on each band.

good DX SD

--
regencycb

2843. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 12:02:45 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <H5AMl.32701$ZP4.19824@nlpi067.nbdc.sbc.com>
Source record: 15766

Jim Kelley wrote:
> Presumably there is a lower limit to the number of turns the coil would
> have to have, or an upper limit to the pitch angle, in order to behave
> as described - a helical sheath. Tesla coils usually have at least a
> few hundred turns wound closely together, and often operate at
> wavelengths considerably longer that 75 meters. One could easily argue
> that 30 turns do not a Tesla coil make, in which case Eq. 32 would not
> apply.

Dr. Corum says that it behaves as a helical sheath when it is electrically longer than 15 degrees (0.04WL). The frequency doesn't matter - just the electrical length. Of course, it takes more turns at a lower frequency since the reactance is proportional to frequency. Eq. 32 is not concerned with the number of turns, just that the coil is electrically longer than 15 degrees and is therefore outside the range for which the lumped-circuit model is valid.

Note that the title of the paper is: "RF Coils, Helical Resonators and Voltage Magnification by Coherent Spatial Modes". "Tesla coil" does not even appear in the title.

A Tesla coil can be 1/4WL self-resonant all by itself. Thus, 30 turns could easily be a Tesla coil over a certain range of HF frequencies.

Some Tesla coils have a top hat and are operated below their 1/4WL self-resonant frequency.

In Dr. Corum's paper, take a look at "Figure 2, A capacitively tuned distributed resonator" and tell us how it differs from a 75m mobile antenna with a top hat.

The 1/4WL self-resonant frequency for a 75m Texas Bugcatcher coil has been measured at ~6.5 MHz where it is known to be electrically 90 degrees long. Why does anyone have a problem with it being electrically 40 degrees long on 4 MHz?

In "Fields and Waves ...", by Ramo and Whinnery, the analysis of a helical sheath assumes an infinitely long helical sheath for the purpose of eliminating reflections. Does that ring a bell? Hint: The current

on a standing-wave antenna cannot be used to measure
phase shift or delay. Yet, that is exactly what w8ji
and w7el tried to do.

I once turned my 75m mobile Texas Bugcatcher system
into a Tesla coil. I had a latch to which I could
connect the top ball of the antenna when I needed
to lean it over for more clearence. I was at a hamfest
at night and had forgotten I had the antenna latched
down. I started transmitting and my friend told me
I was drawing a two-inch arc from the tip of my antenna
to the pickup body. It was indeed "Voltage Magnification
by Coherent Spatial Modes".

http://www.ttr.com/TELSIKS2001-MASTER-1.pdf
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2844. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 12:12:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <47AMI.3693$fD.265@flpi145.ffdc.sbc.com>
Source record: 15767

John KD5YI wrote:
> If it IS true, then the point I tried to make that you are making a
> distributed component from a lumped one is valid. That's what caused me
> to object to your earlier post.

There are coils for which the lumped-circuit model
is valid.

There are coils for which the lumped-circuit model
is not valid.

I am only interested in discussing coils for which
the lumped-circuit model is invalid, i.e. coils that
are electrically longer than 15 degrees, e.g. a large
air-core 75m Texas Bugcatcher coil which measures
about 40 degrees on 4 MHz.

I honestly don't know if the lumped-circuit model
works for 70 uH toroidal coils. I do know it doesn't
work for a 75m Texas Bugcatcher coil.

The people who insist on analyzing tiny toroidal coils
instead of 75m Texas Bugcatcher coils are afraid of
the technical truth and it's easy to see why.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2845. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 12:23:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <uhAMl.3694$fD.461@flpi145.ffdc.sbc.com>
Source record: 15768

Art Unwin wrote:
> Does your photon come in different sizes,
> color and potential energy?

It comes in different wavelengths. It certainly
comes in any and all colors and frequencies outside
the range of "color". All of its energy is the
result of its speed of light velocity. It has
zero rest mass. It has the equivalent of mass
when traveling at the speed of light. m=e/c^2
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2846. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 12:51:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <IHAMI.3695$fD.3428@flpi145.ffdc.sbc.com>
Source record: 15769

Tom Donaly wrote:
> Meaning you don't want anyone to disagree with you.

What I invite is someone disagreeing with me about
a 75m Texas Bugcatcher coil along with some technical
proof that I am wrong. All I have gotten so far is
ad hominem attacks. Where's the beef?

Dr. Corum's empirically-based equations do not work
for toroidal inductors so they are outside the scope
of my discussion. Why not discuss the most common
large air-core coils used for loading 75m mobile
antennas?

> No he wouldn't. You don't know what he would have measured.

I have exactly the same coil that Tom used for his
"measurements". I have measured the traveling wave
delay through the coil by loading it with a 5k
resistor to eliminate reflections. I do know what
he would measure if he would only run the experiment
correctly. You could do it too if you so chose. x and
y are the current sample points.

```
source---x-Tom's coil-y--5k load
+------------------------+
```

> Maxwell's equations don't say anything about "slow-wave
> structures."

If you are saying that Maxwell's equations are invalid
for slow-wave structures, your argument is with Ramo,
Whinnery, and Dr. Corum, not with me.

>> http://www.w8ji.com/agreeing_measurements.htm
>>
>> "As described in my posting on rraa of November 11,
>> the inductor 'replaces' about 33 electrical degrees
>> of the antenna."
>
> Are you sure that isn't a quote from Reg Edwards, whose ideas
> you stole in the first place?

You are free to access the above web page to see who
wrote it. If Dr. Corum stole Reg's ideas, he should
have given him the credit. Dr. Corum does provide
50 references for his paper but Reg is not one of them.

However, here is a partial list:
7. J. D. Kraus, "Antennas"
19. F. E. Terman, "Resonant Lines in Radio Circuits"
23. J. D. Ryder, "Networks, Lines, and Fields"
29. S. Ramo and J. R. Whinnery, "Fields and Waves in Modern Radio"
30. R. W. P. King, "Electromagnetic Engineering"
43. M. Born and E. Wolf, "Principles of Optics"
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2847. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 13:01:15 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <IQAMI.3696$fD.3344@flpi145.ffdc.sbc.com>
Source record: 15770

Tom Donaly wrote:
> Anyone can take a small inductor, such as Roy described, and try to
> analyze all the currents and such in it using a distributed model at low
> or moderate frequencies. If they do, though, they'll just come up with
> what they'd have come up with treating their small inductor as a
> lumped element.

One wonders why some people insist on a "small
toroidal inductor" which obviously agrees with
the lumped-circuit model instead of analyzing
a 75m Texas Bugcatcher loading coil which just
as obviously violates the presuppositions of
the lumped-circuit model.

Instead of the "small toroidal inductor", let's
discuss w8ji's 100 turn, 2" diameter, 10 inch
long air-core coil through which he measured that
ridiculous 3 nS delay after which w7el posted some
"agreeing measurements" while asserting that the
electrical length of the coil was 33 degrees.

Does anyone else realize that 33 degrees in 3 nS
at 4 MHz is faster than light speed?

Are you guys so afraid of losing face that you
are willing to post technical falsehoods?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2848. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 15:35:06 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <YcDMl.16345$%54.3572@nlpi070.nbdc.sbc.com>
Source record: 15771

```
Cecil Moore wrote:
> Tom Donaly wrote:
>> Meaning you don't want anyone to disagree with you.
>
> What I invite is someone disagreeing with me about
> a 75m Texas Bugcatcher coil along with some technical
> proof that I am wrong. All I have gotten so far is
> ad hominem attacks. Where's the beef?
>
> Dr. Corum's empirically-based equations do not work
> for toroidal inductors so they are outside the scope
> of my discussion. Why not discuss the most common
> large air-core coils used for loading 75m mobile
> antennas?
>
>> No he wouldn't. You don't know what he would have measured.
>
> I have exactly the same coil that Tom used for his
> "measurements". I have measured the traveling wave
> delay through the coil by loading it with a 5k
> resistor to eliminate reflections. I do know what
> he would measure if he would only run the experiment
> correctly. You could do it too if you so chose. x and
> y are the current sample points.
>
> source---x-Tom's coil-y--5k load
> +-------------------------+
>
>> Maxwell's equations don't say anything about "slow-wave
>> structures."
>
> If you are saying that Maxwell's equations are invalid
> for slow-wave structures, your argument is with Ramo,
> Whinnery, and Dr. Corum, not with me.
>
>>> http://www.w8ji.com/agreeing_measurements.htm
>>>
>>> "As described in my posting on rraa of November 11,
>>> the inductor 'replaces' about 33 electrical degrees
>>> of the antenna."
>>
>> Are you sure that isn't a quote from Reg Edwards, whose ideas
>> you stole in the first place?
>
```

> You are free to access the above web page to see who
> wrote it. If Dr. Corum stole Reg's ideas, he should
> have given him the credit. Dr. Corum does provide
> 50 references for his paper but Reg is not one of them.
> However, here is a partial list:
> 7. J. D. Kraus, "Antennas"
> 19. F. E. Terman, "Resonant Lines in Radio Circuits"
> 23. J. D. Ryder, "Networks, Lines, and Fields"
> 29. S. Ramo and J. R. Whinnery, "Fields and Waves in Modern Radio"
> 30. R. W. P. King, "Electromagnetic Engineering"
> 43. M. Born and E. Wolf, "Principles of Optics"

I didn't write that the Corums stole Reg's ideas, I wrote that you did.
You know that. Quit trying to hide behind authority. Do you really think
that the people who wrote the references you cite, if they were all
alive today, would agree with you? Ha, ha, ha. Nice try, Cecil.
73,
Tom Donaly, KA6RUH

2849. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 15:58:13 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtv0fj$d59$1@news.service.uci.edu>
Source record: 15772

Cecil Moore wrote:
> Jim Kelley wrote:
>> Presumably there is a lower limit to the number of turns the coil
>> would have to have, or an upper limit to the pitch angle, in order to
>> behave as described - a helical sheath. Tesla coils usually have at
>> least a few hundred turns wound closely together, and often operate at
>> wavelengths considerably longer that 75 meters. One could easily
>> argue that 30 turns do not a Tesla coil make, in which case Eq. 32
>> would not apply.
>
> Dr. Corum says that it behaves as a helical sheath when
> it is electrically longer than 15 degrees (0.04WL). The
> frequency doesn't matter - just the electrical length.

:-) And obviously it's electrical length depends on Vp, which depends on
whether it behaves as a helical sheath.

> Note that the title of the paper is: "RF Coils,
> Helical Resonators and Voltage Magnification
> by Coherent Spatial Modes". "Tesla coil" does not
> even appear in the title.

Are you trying to imply that the paper isn't about Tesla coils?

> In Dr. Corum's paper, take a look at "Figure 2, A
> capacitively tuned distributed resonator" and tell
> us how it differs from a 75m mobile antenna with a
> top hat.

Hopefully you're not serious. Because, borrowing from Richard Clark,
it's a 'cartoon'.

> The 1/4WL self-resonant frequency for a 75m Texas
> Bugcatcher coil has been measured at ~6.5 MHz where
> it is known to be electrically 90 degrees long. Why
> does anyone have a problem with it being electrically
> 40 degrees long on 4 MHz?

Maybe it is. I happen to think that because of its simplicity, it's an
attractive notion. But it's not clear to me that the article applies to
coils with these parameters, and I haven't seen any (reputable)
empirical evidence to support it.

> In "Fields and Waves ...", by Ramo and Whinnery, the
> analysis of a helical sheath assumes an infinitely
> long helical sheath for the purpose of eliminating
> reflections. Does that ring a bell? Hint: The current

> on a standing-wave antenna cannot be used to measure
> phase shift or delay. Yet, that is exactly what w8ji
> and w7el tried to do.

What do you suppose Corum^2 meant when they wrote "Experimentally, the wave velocity and velocity factor may be measured by determining the axial length of the standing wave pattern on the helical structure"?

> I once turned my 75m mobile Texas Bugcatcher system
> into a Tesla coil. I had a latch to which I could
> connect the top ball of the antenna when I needed
> to lean it over for more clearence. I was at a hamfest
> at night and had forgotten I had the antenna latched
> down. I started transmitting and my friend told me
> I was drawing a two-inch arc from the tip of my antenna
> to the pickup body. It was indeed "Voltage Magnification
> by Coherent Spatial Modes".

No offense, but some of their work seems aimed squarely at the 'Art Bell' crowd. Describing constructive interference as "voltage magnification" is an example. It's as if they were publishing in the 19th century.

ac6xg

2850. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 17:12:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <CDEMI.29335$Ws1.26962@nlpi064.nbdc.sbc.com>
Source record: 15774

Tom Donaly wrote:
> I didn't write that the Corums stole Reg's ideas, I wrote that you did.

But I am only quoting Drs. Corum, not Reg. If anyone
stole Reg's ideas, it was Dr. Corum, not I.

> Do you really think
> that the people who wrote the references you cite, if they were all
> alive today, would agree with you?

As a matter of fact, Dr. Balanis did agree with me
when I took his antenna class at ASU in the early
90's. There were some Motorola people in the class
who asked, "Why do Intel people know so much about
antennas?" Dr. Balanis and I worked closely together
on a joint ASU/Intel project.

The complete absence of technical rebuttal in your
posting is noted. I don't know much about you, Tom,
but you seem to be more ad hominem than technical.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2851. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 17:34:46 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2e8f1e19-8785-4cf2-8376-4c69940bc6ee@e24g2000vbe.googlegroups.com>
Source record: 15775

On May 7, 7:51 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Tom Donaly wrote:
> > Meaning you don't want anyone to disagree with you.
>
> What I invite is someone disagreeing with me about
> a 75m Texas Bugcatcher coil along with some technical
> proof that I am wrong. All I have gotten so far is
> ad hominem attacks. Where's the beef?
>
> Dr. Corum's empirically-based equations do not work
> for toroidal inductors so they are outside the scope
> of my discussion. Why not discuss the most common
> large air-core coils used for loading 75m mobile
> antennas?
>
> > No he wouldn't. You don't know what he would have measured.
>
> I have exactly the same coil that Tom used for his
> "measurements". I have measured the traveling wave
> delay through the coil by loading it with a 5k
> resistor to eliminate reflections. I do know what
> he would measure if he would only run the experiment
> correctly. You could do it too if you so chose. x and
> y are the current sample points.
>
> source---x-Tom's coil-y--5k load
>   +-------------------------+
>
> > Maxwell's equations don't say anything about "slow-wave
> > structures."
>
> If you are saying that Maxwell's equations are invalid
> for slow-wave structures, your argument is with Ramo,
> Whinnery, and Dr. Corum, not with me.
>
> >>http://www.w8ji.com/agreeing_measurements.htm
>
> >> "As described in my posting on rraa of November 11,
> >> the inductor 'replaces' about 33 electrical degrees
> >> of the antenna."
>
> > Are you sure that isn't a quote from Reg Edwards, whose ideas
> > you stole in the first place?
>

> You are free to access the above web page to see who
> wrote it. If Dr. Corum stole Reg's ideas, he should
> have given him the credit. Dr. Corum does provide
> 50 references for his paper but Reg is not one of them.
> However, here is a partial list:
> 7. J. D. Kraus, "Antennas"
> 19. F. E. Terman, "Resonant Lines in Radio Circuits"
> 23. J. D. Ryder, "Networks, Lines, and Fields"
> 29. S. Ramo and J. R. Whinnery, "Fields and Waves in Modern Radio"
> 30. R. W. P. King, "Electromagnetic Engineering"
> 43. M. Born and E. Wolf, "Principles of Optics"
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I agree whole heartedly. Maxwell never included slow waves which is a result of lumped loads. Maxwell equations studies have been rigorous with respect to accounting for all forces involved in radiation for maximum efficiency. It stands to reason then that for efficiency a load is not valid. Thus Reg was correct in seeing a transmission line as an antenna with just distributed loads when the length is in terms of a WL i.e. in equilibrium. Thus Kraus's antennas are not in equilibrium and thus deviated away from Maxwell's laws. Same goes for Corum ! And Ramo still talks of waves so he is in the same bracket.
All electrical engineering turns topsey turvey
when engineers are forced to consider particles instead of waves and I will be the leader of that change that will stop CERN in its tracks
Art

2852. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 17:35:58 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <b_EMl.29336$Ws1.11686@nlpi064.nbdc.sbc.com>
Source record: 15776

Cecil Moore wrote:
> Tom Donaly wrote:
>> I didn't write that the Corums stole Reg's ideas, I wrote that you did.
>
> But I am only quoting Drs. Corum, not Reg. If anyone
> stole Reg's ideas, it was Dr. Corum, not I.
>
>> Do you really think
>> that the people who wrote the references you cite, if they were all
>> alive today, would agree with you?
>
> As a matter of fact, Dr. Balanis did agree with me
> when I took his antenna class at ASU in the early
> 90's. There were some Motorola people in the class
> who asked, "Why do Intel people know so much about
> antennas?" Dr. Balanis and I worked closely together
> on a joint ASU/Intel project.

In the early '90's you hadn't come up with your ideas yet.
How could Balanis agree with you before the fact? Again,
nice try.

>
> The complete absence of technical rebuttal in your
> posting is noted. I don't know much about you, Tom,
> but you seem to be more ad hominem than technical.

You're being ad hominem by accusing me of being ad hominem.
Come up with some evidence that makes sense concerning your
ideas and we can talk.
73,
Tom Donaly, KA6RUH

2853. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 17:43:17 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <W4FMI.15315$jZ1.8314@flpi144.ffdc.sbc.com>
Source record: 15777

Jim Kelley wrote:
> Cecil Moore wrote:

> :-) And obviously it's electrical length depends on Vp, which depends on
> whether it behaves as a helical sheath.

There is a test equation in the Drs. Corum paper that
indicates whether a particular coil meets the requirements
for a helical sheath or not. A 75m Texas Bugcatcher coil
meets the requirements. A small toroidal coil does not.
If you had ever actually read the article, you would know that.

> Are you trying to imply that the paper isn't about Tesla coils?

No, I am asserting that the paper isn't *only* about Tesla
coils. It is about RF coils in general. Hint: "RF Coils"
are the first two words in the title.

> it's a 'cartoon'.

Actually, it's a graphic diagram of a Tesla coil with
a top hat or a 75m Texas Bugcatcher with a top hat.
There is no conceptual difference in the diagrams.
The only difference is that we hams avoid arcing
by running reduced power compared to Tesla coils.

> But it's not clear to me that the article applies to
> coils with these parameters, and I haven't seen any (reputable)
> empirical evidence to support it.

Then I would suggest that you read the article. There is
a test for validity on page 4. Let's see if you can
use your "expertise" to locate it.

Actually, I will make it easy for you. Here is an EXCEL
file that I generated based on the Corum paper which
includes the test for validity in red.

http://www.w5dxp.com/CoilZ0VF.xls

> What do you suppose Corum^2 meant when they wrote "Experimentally, the
> wave velocity and velocity factor may be measured by determining the
> axial length of the standing wave pattern on the helical structure"?

EZNEC can do that for us since EZNEC will display the
current in each segment. I have been explaining that
for five+ years. Have you not looked at any of the
EZNEC results I have posted or have you just not been

able to comprehend them? It can also be done, as it
was for Tesla coils, by measuring the electric field
along the coil.

> Describing constructive interference as "voltage
> magnification" is an example.

Well, don't blame me. Drs. Corum think they are the
same thing, just using different words. I understand
what they mean. Obviously, the highest "voltage
magnification" occurs at the point where the forward
and reflected voltages are in phase, i.e. constructive
interference. If you disagree, let's hear your theory
on the subject.

Jim, you seem to object to anyone, including Drs. Corum,
choosing slightly different words from the ones you would
choose. Are you actually omniscient?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2854. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 18:02:12 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GmFMI.21878$as4.21688@nlpi069.nbdc.sbc.com>
Source record: 15778

Tom Donaly wrote:
> In the early '90's you hadn't come up with your ideas yet.
> How could Balanis agree with you before the fact? Again,
> nice try.

On the contrary, in the early 90's I had not published
my ideas yet. Dr. Balanis helped me to develop the very
ideas that I have published and he agreed with them.

> Come up with some evidence that makes sense concerning your
> ideas and we can talk.

I have presented my evidence long ago and you have
ignored it in favor of ad hominem attacks. I cannot
recall a single technical argument from you. For all
I know, you are an 8 year old brat with access to
his mother's computer.

I would like nothing better than to engage in a real
technical argument with you. You can start by producing
technical arguments against the information on my web
page. If you have EZNEC, you can verify everything I
say by downloading the EZNEC files at:

http://www.w5dxp.com/current2.htm
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2855. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 18:08:17 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3feea910-aa71-4383-ba73-3aa09b984c65@e20g2000vbc.googlegroups.com>
Source record: 15779

On May 7, 12:43 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Jim Kelley wrote:
> > Cecil Moore wrote:
> > :-) And obviously it's electrical length depends on Vp, which depends on
> > whether it behaves as a helical sheath.
>
> There is a test equation in the Drs. Corum paper that
> indicates whether a particular coil meets the requirements
> for a helical sheath or not. A 75m Texas Bugcatcher coil
> meets the requirements. A small toroidal coil does not.
> If you had ever actually read the article, you would know that.
>
> > Are you trying to imply that the paper isn't about Tesla coils?
>
> No, I am asserting that the paper isn't *only* about Tesla
> coils. It is about RF coils in general. Hint: "RF Coils"
> are the first two words in the title.
>
> > it's a 'cartoon'.
>
> Actually, it's a graphic diagram of a Tesla coil with
> a top hat or a 75m Texas Bugcatcher with a top hat.
> There is no conceptual difference in the diagrams.
> The only difference is that we hams avoid arcing
> by running reduced power compared to Tesla coils.
>
> > But it's not clear to me that the article applies to
> > coils with these parameters, and I haven't seen any (reputable)
> > empirical evidence to support it.
>
> Then I would suggest that you read the article. There is
> a test for validity on page 4. Let's see if you can
> use your "expertise" to locate it.
>
> Actually, I will make it easy for you. Here is an EXCEL
> file that I generated based on the Corum paper which
> includes the test for validity in red.
>
> http://www.w5dxp.com/CoilZ0VF.xls
>
> > What do you suppose Corum^2 meant when they wrote "Experimentally, the
> > wave velocity and velocity factor may be measured by determining the
> > axial length of the standing wave pattern on the helical structure"?
>

> EZNEC can do that for us since EZNEC will display the
> current in each segment. I have been explaining that
> for five+ years. Have you not looked at any of the
> EZNEC results I have posted or have you just not been
> able to comprehend them? It can also be done, as it
> was for Tesla coils, by measuring the electric field
> along the coil.
>
> > Describing constructive interference as "voltage
> > magnification" is an example.
>
> Well, don't blame me. Drs. Corum think they are the
> same thing, just using different words. I understand
> what they mean. Obviously, the highest "voltage
> magnification" occurs at the point where the forward
> and reflected voltages are in phase, i.e. constructive
> interference. If you disagree, let's hear your theory
> on the subject.
>
> Jim, you seem to object to anyone, including Drs. Corum,
> choosing slightly different words from the ones you would
> choose. Are you actually omniscient?
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

But Cecil the Bugcatcher does not conform with Maxwell's laws and
EZNEC has no provision to explain to you when you deviate from
Maxwell's laws with invalid designs
All Eznec does is to apply the best math available via approximations
to what you direct it to do. It is not able to inform you or change
the input so it does conform to Maxwell's equations. A typical
description of garbage in garbage out with respect to a rigourous
examination for accuracy. So to refer to Eznec as an authority of
accuracy is the same as an author who details all that agree with him
at the outset. This is not
to say that EZNEC is not a useful tool or not close in it's
approximations. It is a tool that matches the requirements of the
average ham and the education given him.
Art

2856. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 19:12:34 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtvbs0$h6r$1@news.service.uci.edu>
Source record: 15780

Cecil Moore wrote:

> Are you actually omniscient?

I know bullcrap when I see it.

ac6xg

2857. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 19:31:35 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <sGGMl.29369$YU2.9181@nlpi066.nbdc.sbc.com>
Source record: 15781

Art Unwin wrote:
> But Cecil the Bugcatcher does not conform with Maxwell's laws

In what way does a Bugcatcher not conform with
Maxwell's equations? In "Fields and Waves ...",
Ramo and Whinnery give the actual Maxwell equations
for a loading coil.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2858. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 19:35:06 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gtvd5a$bo7a$1@tr22n12.aset.psu.edu>
Source record: 15782

Art Unwin wrote:

> I don't know about waves but my understanding is that all colors come
> from the mixing of the three basic colors, or is it four? When you mix frequencies I
> would imagine you could arrive at all possible frequencies. I think
> you should drop the idea of waves with respect to frequency. If you
> observe a rainbow how many basic colors are there in the mix!

The visible spectrum does not include "basic colors" It pretty much has
all of them. Well, not Magenta. Is magenta a color?

And when you talk "basic, are you talking Cyan, Magenta, Yellow, or Red,
Green, Blue. It makes a difference.

> In a
> projector isn't there just three filters required for a movie in
> color? One thing you have to get into your mind is the idea of basic
> temperature and mass without energy.

That would be a black body radiator at absolute 0.

2859. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 19:41:37 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SPGMI.29370$YU2.19670@nlpi066.nbdc.sbc.com>
Source record: 15783

Jim Kelley wrote:
> Cecil Moore wrote:
>> Are you actually omniscient?
>
> I know bullcrap when I see it.

So you have the omniscient gift of recognizing
bullcrap just by observing it with absolutely
no technical rebuttal and no possibility of
your being conceptually wrong? Exactly what
is it about Drs. Corum paper that you don't
understand?

Jim, if you want to retain one iota of respect,
please present a technical argument to refute
what I have asserted. Your gut feelings of
"bullcrap" are completely irrelevant. How about
your equations that prove Dr. Corums's IEEE
paper's equations are wrong?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2860. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 20:35:46 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <Tv2dnY9l7oq7257XnZ2dnUVZ_rydnZ2d@posted.easystreetonline>
Source record: 15784

Michael Coslo wrote:
> Art Unwin wrote:
>
>> I don't know about waves but my understanding is that all colors come
>> from the mixing of the three basic colors, or is it four? When you
>> mix frequencies I
>> would imagine you could arrive at all possible frequencies. I think
>> you should drop the idea of waves with respect to frequency. If you
>> observe a rainbow how many basic colors are there in the mix!
>
> The visible spectrum does not include "basic colors" It pretty much has
> all of them. Well, not Magenta. Is magenta a color?
>
> And when you talk "basic, are you talking Cyan, Magenta, Yellow, or Red,
> Green, Blue. It makes a difference.
>
>
>> In a
>> projector isn't there just three filters required for a movie in
>> color? One thing you have to get into your mind is the idea of basic
>> temperature and mass without energy.
>
> That would be a black body radiator at absolute 0.

It's not very simple.

Except for monochromatic light sources like lasers, light of any color contains multiple spectral lines. Sunlight or, for example, an incandescent bulb or red hot electric stove element contains a continuous spectrum, or effectively an infinite number of spectral lines or "colors". So you can't duplicate these with any finite number of spectral lines. The interesting thing is that with only three spectral lines (pure monochromatic colors) you can produce light that *looks* line nearly any color of light that's really made from many spectral lines. For example, (transparent) box A can contain an incandescent bulb whose light contains an infinite number of spectral lines or "colors", box B can produce light with only three spectral lines, and you won't be able to perceive the difference by eye if they're the right colors and brightnesses. This is the trick that makes color TV and color film work. It would be pretty easy to detect the difference with some simple tests, though. For example, the light from the two would look like different colors after passing through various color filters. Or pass the lights through a prism, and you'd see many more colors in the light from the incandescent bulb than the three-color source.

But you can't make all perceived colors from any set of primary colors -- various choices of primary colors give you certain ranges of colors you can mimic. RGB and CMY of particular wavelengths give wide ranges, which is why they're common, but no choice can mimic all. I notice that some color printers have more ink colors, which I assume allows an even wider range. Creating light by combining colors is a different process than filtering white light by subtracting colors or letting only certain colors through. So different primary color sets are required. It's a fascinating topic, and yet another example of how our eyes deceive us.

Roy Lewallen, W7EL

2861. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 21:20:44 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtvjccjog1@news.service.uci.edu>
Source record: 15785

Cecil Moore wrote:
> Jim, if you want to retain one iota of respect,
> please present a technical argument to refute
> what I have asserted.

Sorry OM, you haven't proven your argument. You've provided no substantive data, and have shown nothing that indicates that this coil would conduct surface waves or behave as a tightly wound slow wave structure. It that's a Tesla coil, then so is any other coil. I'm just stating the obvious here.

ac6xg

2862. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-07 22:49:26 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <vwJMl.6771$Lr6.2258@flpi143.ffdc.sbc.com>
Source record: 15786

Jim Kelley wrote:
> I'm just stating the obvious here.

One lurker stated the obvious in an email to me.
"It seems these guys will argue that black is white
if it's you that is saying white is white!"

The 75m Texas Bugcatcher loading coil satisfies the
boundary conditions given for a slow-wave structure.
What is obvious is that you and others absolutely
refuse to engage in any technical argument concerning
the subject. It is indeed obvious why you refuse to
do so.

Jim, I ask you again: How can one possibly use the
following current as reported by EZNEC to measure
the delay through a wire or through a loading coil?

EZNEC+ ver. 4.0
1/4WL vertical 5/7/2009 5:34:16 PM
--------------- CURRENT DATA ---------------
Frequency = 7.29 MHz
Wire No. 1:
Segment Conn Magnitude (A.) Phase (Deg.)
1 Ground 1 0.00
2 .97651 -0.42
3 .93005 -0.83
4 .86159 -1.19
5 .77258 -1.50
6 .66485 -1.78
7 .54059 -2.04
8 .40213 -2.28
9 .25161 -2.50
10 Open .08883 -2.71

Your silence on the subject has so far been deafening.

How do you explain Roy's (w7el) assertion at:
http://www.w8ji.com/agreeing_measurements.htm

"As described in my posting on rraa of November 11,
the inductor "replaces" about 33 electrical degrees
of the antenna."

w8ji's measurement was a 3 nS delay. If an EM wave
can travel through 33 degrees in 3 nS at 4 MHz, it
is traveling considerably faster than the speed of

light which is entirely possible with the lumped-
circuit model. How do you explain that?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2863. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 00:37:37 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gtvutjnmn1@news.service.uci.edu>
Source record: 15787

Cecil Moore wrote:
> Jim, I ask you again: How can one possibly use the
> following current as reported by EZNEC to measure
> the delay through a wire or through a loading coil?

Ask as many times as you like. You're asking me explain how to use a printout from a computer program to measure current. The question makes no sense, Cecil. What I'd like to know is how is one supposed to respond to such nonsense.

If what you want to know is how to measure current on a coil, I suggest that you need to build a current probe. Ask W8JI about it. According to your reference, the Corum paper, you would then plot current as a function of position along the axis of the helix. From that one can determine the axial length of the standing wave pattern - the length of the wave, so to speak. Given the frequency and the wavelength, one can easily arrive at the propagation velocity. If you need help with it, good luck.

ac6xg

2864. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 01:13:23 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <DALMl.18745$8_3.17076@flpi147.ffdc.sbc.com>
Source record: 15788

Jim Kelley wrote:
> Cecil Moore wrote:
>> Jim, if you want to retain one iota of respect,
>> please present a technical argument to refute
>> what I have asserted.
>
> Sorry OM, you haven't proven your argument. You've provided no
> substantive data, and have shown nothing that indicates that this coil
> would conduct surface waves or behave as a tightly wound slow wave
> structure. It that's a Tesla coil, then so is any other coil. I'm just
> stating the obvious here.
>
> ac6xg
>

Cecil's using the old "You cain't prove it ain't" argument. Where has
that come up before?
73,
Tom Donaly, KA6RUH

2865. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 01:25:15 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <nLLMI.18100$D32.6110@flpi146.ffdc.sbc.com>
Source record: 15789

Cecil Moore wrote:
> Tom Donaly wrote:
>> In the early '90's you hadn't come up with your ideas yet.
>> How could Balanis agree with you before the fact? Again,
>> nice try.
>
> On the contrary, in the early 90's I had not published
> my ideas yet. Dr. Balanis helped me to develop the very
> ideas that I have published and he agreed with them.
>
>> Come up with some evidence that makes sense concerning your
>> ideas and we can talk.
>
> I have presented my evidence long ago and you have
> ignored it in favor of ad hominem attacks. I cannot
> recall a single technical argument from you. For all
> I know, you are an 8 year old brat with access to
> his mother's computer.
>
> I would like nothing better than to engage in a real
> technical argument with you. You can start by producing
> technical arguments against the information on my web
> page. If you have EZNEC, you can verify everything I
> say by downloading the EZNEC files at:
>
> http://www.w5dxp.com/current2.htm

Cecil,
people have tried technical arguments on you for years, to no
avail. Most have given up in disgust. Roy even plonked you. If Roy and
Tom Rauch couldn't make you see reason, no one can. As for Balanis
agreeing with you, that's pretty funny.
73,
Tom Donaly, KA6RUH

2866. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 02:16:49 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <17bee900-d61c-4ce9-bbc7-c6bab2505b37@z5g2000vba.googlegroups.com>
Source record: 15790

On May 7, 2:31 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > But Cecil the Bugcatcher does not conform with Maxwell's laws
>
> In what way does a Bugcatcher not conform with
> Maxwell's equations? In "Fields and Waves ...",
> Ramo and Whinnery give the actual Maxwell equations
> for a loading coil.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

I looked up the references and here are my comments
1 a helical is not in a state of equilibrium
2 A radiator that is not a WL or multiple thereof is not in
equilibrium
3 It refered to boundary laws and then mis used them.
4 The beginning was littered with "assume" and terms of" Aproximation"
5 It then went on to change the configuration of a helix to a
configuration that
he thinks he has solved when using the approximations. He also assumed
that the speed of light could be exceeded
6 I saw no evidence of accounting for the flux in a clockwise versus a
counterclockwise action tho apparently he made assumptions that
circular motion was zero.
7Frankly Cecil he knew what answer was to be accepted by reviwing
Krauss's work and devised his mathematics accordingly
8 Krauss's work was on the subject of a helical that was not in
equilibrium which thus forced him to include the helix angle which
also is nowhere to be seen in Maxwells laws.
The reference he used is not credible but name dropping of those that
he agrees with
is a confidence builder for those you judge plagurism as being with co
believers.
This is the same as those who defined light as a wave where academics
followed
with smiles and without question.
It all still comes back to the fact that in boundary laws the contents
must be in equilibrium and nothing about your antennamatches that
requirement
Sorry about that Cecil No harm meant
Art

2867. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 02:56:30 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ad8366c0-1406-4d52-a219-1f6accf835cd@l28g2000vba.googlegroups.com>
Source record: 15791

On May 7, 9:16 pm, Art Unwin <ArthurUn...@gmail.com> wrote:
> On May 7, 2:31 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>
> > Art Unwin wrote:
> > > But Cecil the Bugcatcher does not conform with Maxwell's laws
>
> > In what way does a Bugcatcher not conform with
> > Maxwell's equations? In "Fields and Waves ...",
> > Ramo and Whinnery give the actual Maxwell equations
> > for a loading coil.
> > --
> > 73, Cecil, IEEE, OOTC, http://www.w5dxp.com
>
> I looked up the references and here are my comments
> 1 a helical is not in a state of equilibrium
> 2 A radiator that is not a WL or multiple thereof is not in
> equilibrium
> 3 It refered to boundary laws and then mis used them.
> 4 The beginning was littered with "assume" and terms of" Aproximation"
> 5 It then went on to change the configuration of a helix to a
> configuration that
> he thinks he has solved when using the approximations. He also assumed
> that the speed of light could be exceeded
> 6 I saw no evidence of accounting for the flux in a clockwise versus a
> counterclockwise action tho apparently he made assumptions that
> circular motion was zero.
> 7Frankly Cecil he knew what answer was to be accepted by reviwing
> Krauss's work and devised his mathematics accordingly
> 8 Krauss's work was on the subject of a helical that was not in
> equilibrium which thus forced him to include the helix angle which
> also is nowhere to be seen in Maxwells laws.
> The reference he used is not credible but name dropping of those that
> he agrees with
> is a confidence builder for those you judge plagurism as being with co
> believers.
> This is the same as those who defined light as a wave where academics
> followed
> with smiles and without question.
> It all still comes back to the fact that in boundary laws the contents
> must be in equilibrium and nothing about your antennamatches that
> requirement
> Sorry about that Cecil No harm meant
> Art

Oooops, I forgot the real biggy.
You mentioned that a spark was emmited from the end of your antenna. I am sure you are aware that this is symbolic of end effect.
Maxwell has no equation for end effect ! Nor did he see the need to account for that force. Why? Because that is representitive of a radiator that is NOT in equilibrium. It takes a circuit of 1 WL or multiple there of to reach the state of equilibrium.
This is why the radiator at Quito Equador was changed to a quad ala 1 WL just to get rid of "end effect" which is of no help in terms of directivity just a waste of radiation energy. I will say it again, boundary laws as does all the laws of our Universe demand
that a state of equilibrium is present such that it meets Newtons law that "every action has an equal and opposite reaction" which in mathematical terms for the boundary aproach is that all forces summed equals zero.
I feel that this debate has now come to an end. Maxwell's laws are not applicable or valid when a radiator is not in equilibrium. And resonance does not equate to equilibrium because end effect is not present and thus not applicable with respect to Maxwell.
Best regards
Art'

2868. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 05:26:34 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <0f5f6823-8f44-463a-a59b-4b7b6aceb317@a5g2000pre.googlegroups.com>
Source record: 15792

On May 7, 1:35 pm, Roy Lewallen <w...@eznec.com> wrote:
> Michael Coslo wrote:
> > Art Unwin wrote:
>
> >> I don't know about waves but my understanding is that all colors come
> >> from the mixing of the three basic colors, or is it four? When you
> >> mix frequencies I
> >> would imagine you could arrive at all possible frequencies. I think
> >> you should drop the idea of waves with respect to frequency. If you
> >> observe a rainbow how many basic colors are there in the mix!
>
> > The visible spectrum does not include "basic colors" It pretty much has
> > all of them. Well, not Magenta. Is magenta a color?
>
> > And when you talk "basic, are you talking Cyan, Magenta, Yellow, or Red,
> > Green, Blue. It makes a difference.
>
> >> In a
> >> projector isn't there just three filters required for a movie in
> >> color? One thing you have to get into your mind is the idea of basic
> >> temperature and mass without energy.
>
> > That would be a black body radiator at absolute 0.
>
> It's not very simple.
>
> Except for monochromatic light sources like lasers, light of any color
> contains multiple spectral lines. Sunlight or, for example, an
> incandescent bulb or red hot electric stove element contains a
> continuous spectrum, or effectively an infinite number of spectral lines
> or "colors". So you can't duplicate these with any finite number of
> spectral lines. The interesting thing is that with only three spectral
> lines (pure monochromatic colors) you can produce light that *looks*
> line nearly any color of light that's really made from many spectral
> lines. For example, (transparent) box A can contain an incandescent bulb
> whose light contains an infinite number of spectral lines or "colors",
> box B can produce light with only three spectral lines, and you won't be
> able to perceive the difference by eye if they're the right colors and
> brightnesses. This is the trick that makes color TV and color film work.
> It would be pretty easy to detect the difference with some simple tests,
> though. For example, the light from the two would look like different
> colors after passing through various color filters. Or pass the lights
> through a prism, and you'd see many more colors in the light from the
> incandescent bulb than the three-color source.

>
> But you can't make all perceived colors from any set of primary colors
> -- various choices of primary colors give you certain ranges of colors
> you can mimic. RGB and CMY of particular wavelengths give wide ranges,
> which is why they're common, but no choice can mimic all. I notice that
> some color printers have more ink colors, which I assume allows an even
> wider range. Creating light by combining colors is a different process
> than filtering white light by subtracting colors or letting only certain
> colors through. So different primary color sets are required. It's a
> fascinating topic, and yet another example of how our eyes deceive us.
>
> Roy Lewallen, W7EL

Further on this topic: one of the interesting things that comes up when you look into "white" LED or fluorescent lights is that they pretty much all have "holes" in their spectra. That is, the spectrum they emit isn't continuous and the same shape as with light from an incandescent source (including sunlight). The result is that some things which reflect strongly over a narrow spectral band and much less outside that band will look funny under such an LED or fluorescent light. The light reflected by the object under such a light doesn't have the "right" spectral shape. But it's something that the lamp manufacturers are paying special attention to these days, and you can find ratings on many bulbs about how good a job they do at color rendering.

Cheers,
Tom

2869. wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 08:35:42 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu0i37$9dt$1@node1.news.atman.pl>
Source record: 15793

I start reading about acoustic analogy.
I found that: "Over long distances, the atmosphere can cause the
polarization of a radio wave to fluctuate, so the distinction between
horizontal and vertical becomes less significant." From:
http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html

The my question are:
1. What means "long distances" in km (or miles),
2. What is the best orientation of the antenna for long distances.
S*

2870. Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 08:51:10 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu0j07$9hn$1@node1.news.atman.pl>
Source record: 15794

It seems that at long distances should appear the phenomenon of frequency
doubling.
See: http://www.rp-photonics.com/frequency_doubling.html

Is such?
S*

2871. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 10:00:38 UTC
From: wimabctel@tetech.nl
Message-ID: <e1617758-86bf-4564-bcc8-8784d70cd9d5@s21g2000vbb.googlegroups.com>
Source record: 15795

On 8 mayo, 10:35, Szczepan Białek <sz.bia...@wp.pl> wrote:
> I start reading about acoustic analogy.
> I found that: "Over long distances, the atmosphere can cause the
> polarization of a radio wave to fluctuate, so the distinction between
> horizontal and vertical becomes less significant."
From:http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html
>
> The my question are:
> 1. What means "long distances" in km (or miles),
> 2. What is the best orientation of the antenna for long distances.
> S*

Hello,

Under normal circumstances, polarization change in line-off-site conditions (think of max 40 mile) is not that much, so antenna polarization does matter (unless you use at least circular polarization on one side).

In a propagation path that is dominated by multi-path effects (reflection at buildings, hills, foliage, etc), you get almost random polarization and then the polarization is not that important. Your cell phone and indoor WIFI are examples.

Extreme weather conditions can also lead to polarization changes or a random polarization component (ducting superrefraction).

For sea water up to VHF, reflection depends on polarization. For ground-ground links (for example ship shore) mostly vertical polarization is used (as the sea water helps in this case). So if you want to receive these communication, you use a vertical polarized antenna.

The largest change in polarization you will get when the waves have to travel through the ionosphere. At HF (ground-ground link via ionosphere), the polarization vector rotates many times. This is due to Faraday rotation. Also ground-satellite links suffer from this effect. The higher the frequency, the less the change in polarization. For example at 100 MHz you should think about 30 full rotations (that is more then 10k degrees), while at 10 GHz the change in polarization will be about 1 degree. Circular polarization may help to mitigate the influence of Faraday rotation.

At HF sky wave (100....>1000 mile via ionosphere) polarization of the antenna matters. This is not because of the polarization change of the waves due to Faraday rotation, but because of the reflection

characteristics of mother earth. In HF antennas, reflection on mother earth is used (in combination with antenna height) to get the required elevation radiation pattern of the antenna. Reflection on earth depends on polarization.

Hopefully this helps you a bit.

Best regards,

Wim
PA3DJS
www.tetech.nl
don't forget to remove a, b and c from the mail address

2872. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 11:12:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xsUMl.15358$jZ1.12408@flpi144.ffdc.sbc.com>
Source record: 15796

Jim Kelley wrote:
> Ask as many times as you like. You're asking me explain how to use a
> printout from a computer program to measure current. The question makes
> no sense, Cecil. What I'd like to know is how is one supposed to
> respond to such nonsense.

Jim, I'm sorry that you are not capable of converting
the EZNEC printout into a graph. Would you like me to
show you how to do it?

> If what you want to know is how to measure current on a coil, I suggest
> that you need to build a current probe. Ask W8JI about it. According
> to your reference, the Corum paper, you would then plot current as a
> function of position along the axis of the helix. From that one can
> determine the axial length of the standing wave pattern - the length of
> the wave, so to speak. Given the frequency and the wavelength, one can
> easily arrive at the propagation velocity. If you need help with it,
> good luck.

You're preaching to the choir, Jim. You and I know that
the phase information for a standing wave is contained
in the amplitude and the phase relative to time is constant
at all points on the antenna for any particular time.

What you should be doing is explaining that to w7el and
w8ji because they don't seem to understand that the
current phase in standing wave antennas does NOT change
with distance. Here's an earlier question that you guys
ignored. Given a 1/2WL dipole with current probes at x and y:

---------------------------fp--------x--------y---------

points x and y are 30 degrees apart. What will be the
difference between the phase of the current at x and
the phase of the current at y? EZNEC says ~1 degree.
How can current phase change by one degree in 30
degrees of wire?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2873. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 11:31:47 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <EKUMl.15359$jZ1.10266@flpi144.ffdc.sbc.com>
Source record: 15797

Tom Donaly wrote:
> Cecil's using the old "You cain't prove it ain't" argument.

I have presented my arguments. Nobody has refuted
them technically. All the objections have been ad
hominem or based on false premises.

A 75m Texas Bugcatcher coil meets the Corum test
for a helical sheath. That test is on page 4 of:

http://www.ttr.com/TELSIKS2001-MASTER-1.pdf

"... is valid for helices with 5ND^2/WLo < 1
where N is the TPI and D is the diameter."

That figure is 0.244 < 1 for the 75m Texas Bug
Catcher used on 4 MHz.

5*4*6^2/2952 = 0.244

So all you guys have to do to shoot down my analysis
is to prove that 0.244 is not less than one.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2874. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 11:45:32 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xXUMl.26209$c45.13279@nlpi065.nbdc.sbc.com>
Source record: 15798

Tom Donaly wrote:
> If Roy and Tom Rauch couldn't make you see reason, no one can.

Roy and Tom are the ones committing the technical
blunder of trusting their phase measurements using
a current that doesn't change phase relative to
the source phase anywhere up and down the thin-wire
1/2WL dipole. Now you and others are helping them
to sandbag their technical myths and hoodwink the
unwashed masses. If that's what you want for a
reputation, be my guest.

EZNEC agrees that the relative phase of the current
on a standing wave antenna doesn't change anywhere
on a 1/2WL thin-wire dipole so it cannot be used
to measure the phase shift through the wire. EZNEC
says that the phase of the current on a standing
wave antenna changes about 1 degree for every 30
degrees of antenna wire. Roy and Tom would have to
admit that is considerably faster than the speed
of light. Of course, that's exactly what the
lumped-circuit model presupposes - instantaneous
propagation through the lumped-inductor.

Since that current cannot even be used to determine
the phase shift through the antenna wire, how can anyone
honestly assert that it can be used to determine the
phase shift through a loading coil?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2875. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 12:31:28 UTC
From: Dave <noone@nowhere.com>
Message-ID: <ACVMI.5102$b11.2764@nwrddc02.gnilink.net>
Source record: 15799

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gu0j07$9hn$1@node1.news.atman.pl...
> It seems that at long distances should appear the phenomenon of frequency
> doubling.
> See: http://www.rp-photonics.com/frequency_doubling.html
>
> Is such?
> S*
not that has been reported anywhere i have seen. this is likely because
that at the low amplitudes of radio waves relative to the energies needed to
create non-linear effects the medium is close enough to linear that any
doubling effect is too small to see.

2876. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 12:34:49 UTC
From: Dave <noone@nowhere.com>
Message-ID: <JFVMl.5103$b11.1616@nwrddc02.gnilink.net>
Source record: 15800

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:ad8366c0-1406-4d52-a219-1f6accf835cd@l28g2000vba.googlegroups.com...
>I feel that this debate has now come to an end. Maxwell's laws are not
>applicable or valid when a radiator is not in equilibrium. And
>resonance does not equate to equilibrium because end effect is not
>present and thus not applicable with respect to Maxwell.

so when can we expect the publication of "art's equations" to fill this gap?

2877. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 12:37:17 UTC
From: Dave <noone@nowhere.com>
Message-ID: <1IVMl.5104$b11.3688@nwrddc02.gnilink.net>
Source record: 15701

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:17bee900-d61c-4ce9-bbc7-c6bab2505b37@z5g2000vba.googlegroups.com...
>I looked up the references and here are my comments
>1 a helical is not in a state of equilibrium

of course it is, there is an equals in the equation so it must be in
'equal'ibrium according to your definition.

>2 A radiator that is not a WL or multiple thereof is not in
>equilibrium

my half wave radiator, and my infinitesimal dipole both have equals signs in
their equations to they must be in your state of 'equal'ibrium also!

2878. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 13:48:53 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <e7c20dfa-499c-4482-816d-88232116ffa2@n8g2000vbb.googlegroups.com>
Source record: 15702

On May 8, 4:51 am, Szczepan Białek <sz.bia...@wp.pl> wrote:
> It seems that at long distances should appear the phenomenon of frequency
> doubling.
> See:http://www.rp-photonics.com/frequency_doubling.html
>
> Is such?
> S*

The laser must be fed into a non-linear medium for the doubling to
occur. The same would be true for RF.Normally the atmosphere and space
are considered fairly linear in respect to both RF and light, both
forms of EM radiation. Luckily for us this is the case, otherwise all
radiation would be multipled to xrays and beyound. The result would
probablybe the termination of all life as we know it.

Jimmie

2879. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 14:01:47 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gu1e0b$ec1e$1@tr22n12.aset.psu.edu>
Source record: 15703

Roy Lewallen wrote:

> It's not very simple.
>
> Except for monochromatic light sources like lasers, light of any color
> contains multiple spectral lines. Sunlight or, for example, an
> incandescent bulb or red hot electric stove element contains a
> continuous spectrum, or effectively an infinite number of spectral lines
> or "colors". So you can't duplicate these with any finite number of
> spectral lines. The interesting thing is that with only three spectral
> lines (pure monochromatic colors) you can produce light that *looks*
> line nearly any color of light that's really made from many spectral
> lines.

AHa! I was going to write about the emulation of color, but wasn't sure if I'd just confuse things. But you've done a good job describing it, so here we are.

So called "Lippmann" emulsions can do color correctly, but they work on a wavefront basis instead of combining colors.(the individual particles of silver are extremely small, so they can do that) A color Lippmann image can be gorgeous, but they are really difficult to make, so are more of a curiosity than anything else.

> which is why they're common, but no choice can mimic all. I notice that
> some color printers have more ink colors, which I assume allows an even
> wider range.

That's a big part of it. Inkjets have some mechanical issues too, such as the best looking colors might not last very long, or a good long lasting color might be hard to squeeze through the little jets. SO we get stuck with multiple color cartridges. But for the purposes at hand, the color perception issue is the big one, and the others can be ignored.

- 73 de Mike N3LI -

2880. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 15:33:04 UTC
From: Brian Howie <brian@nospam.demon.co.uk>
Message-ID: <y8SRT+CwCFBKFwPE@b-howie.demon.co.uk>
Source record: 15704

In message <ACVMl.5102$b11.2764@nwrddc02.gnilink.net>, Dave
<noone@nowhere.com> writes
>
>"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>news:gu0j07$9hn$1@node1.news.atman.pl...
>> It seems that at long distances should appear the phenomenon of
>>frequency doubling.
>> See: http://www.rp-photonics.com/frequency_doubling.html
>>
>> Is such?
>> S*
>not that has been reported anywhere i have seen. this is likely
>because that at the low amplitudes of radio waves relative to the
>energies needed to create non-linear effects the medium is close enough
>to linear that any doubling effect is too small to see.

You can get ionospheric mixing of radio waves. e.g Luxembourg Effect; so
doubling is possible.

I also once heard a mixing effect of the 10MHz Time signal MSF with the
60KHz time signal ,producing two sidebands at 10.060 and 9.030 MHz, but
that could have been an effect at the transmitter site.

Maybe WWV does the same - take a listen; it's not strong enough here.

Brian GM4DIJ

--
Brian Howie

2881. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 15:40:54 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <1c8fdaee-b5be-4c8d-9a99-d4da83b557fc@21g2000vbk.googlegroups.com>
Source record: 15705

On May 8, 7:34 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:ad8366c0-1406-4d52-a219-1f6accf835cd@l28g2000vba.googlegroups.com...
>
> >I feel that this debate has now come to an end. Maxwell's laws are not
> >applicable or valid when a radiator is not in equilibrium. And
> >resonance does not equate to equilibrium because end effect is not
> >present and thus not applicable with respect to Maxwell.
>
> so when can we expect the publication of "art's equations" to fill this gap?

David
All hams armed with the above fact can now pursue experimentation with
abandon for themselves. It will be decades before science can accept
change. So for those hams willing to accept change and become do'ers,
that is very important to me, the lack of sun spots will not push them
away from the hobby. I am old and not good looking but like Susan
Boyle what I am sharing with all will last a life time.
For the "gurus" the next challenge is to devise an equation that will
account for all forces involved in the production of "end effect" that
will withstand rigourous examination. In other words David, nasty
words with contempt have soured my desire to share for the moment
Regards
Art...,..xg

In the corner of every battle field
there lies a piece of England
But for me life, which is good, goes on

2882. Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 16:36:08 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <4a045f79$0$840$4fafbaef@reader5.news.tin.it>
Source record: 15706

I think this message can be of interest for those using Excel for antenna calculations.

Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and not 2+8=10) because Excel performs squaring before summing

Write in another cell: =(8 - A1^2)

They look pretty much the same

But give A1 any non-zero value and see what happen.

73

Tony I0JX
Rome, Italy

2883. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 16:59:34 UTC
From: Dave <noone@nowhere.com>
Message-ID: <WxZMl.42$5F2.16@nwrddc01.gnilink.net>
Source record: 15707

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:1c8fdaee-b5be-4c8d-9a99-d4da83b557fc@21g2000vbk.googlegroups.com...
>In other words David, nasty
>words with contempt have soured my desire to share for the moment

I don't know weather to be sad that i'll miss your great words of wisdom, or
happy that your gibberish may be quelled for a while. Spring is here, so i
have my own REAL antenna work to do, so i guess i really don't need your
imaginary stuff anyway.

2884. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 17:21:12 UTC
From: Jeff <jeff@local.host>
Message-ID: <4a046a6a$0$1344$834e42db@reader.greatnowhere.com>
Source record: 15708

"Antonio Vernucci" <vernucci@tin.it> wrote in message
news:4a045f79$0$840$4fafbaef@reader5.news.tin.it...
>I think this message can be of interest for those using Excel for antenna
>calculations.
>
> Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and not
> 2+8=10) because Excel performs squaring before summing
>
> Write in another cell: =(8 - A1^2)
>
> They look pretty much the same
>
> But give A1 any non-zero value and see what happen.
>
> 73
>
> Tony I0JX
> Rome, Italy
>

I see it give the correct answers!!!

eg when A1 =2 the first formula =12 and the second =4

-2 squared =4
So 4 plus 8 = 12

2 squared =4
So 8 - 4 = 4

8 - (2 squared) = 4

Jeff

2885. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 17:42:06 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <e5c8c6ec-9a8d-452d-9181-bf8872217a16@p4g2000vba.googlegroups.com>
Source record: 15709

On May 8, 11:59 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:1c8fdaee-b5be-4c8d-9a99-d4da83b557fc@21g2000vbk.googlegroups.com...
>
> >In other words David, nasty
> >words with contempt have soured my desire to share for the moment
>
> I don't know weather to be sad that i'll miss your great words of wisdom, or
> happy that your gibberish may be quelled for a while. Spring is here, so i
> have my own REAL antenna work to do, so i guess i really don't need your
> imaginary stuff anyway.

Atta boy,
Keep using that slide rule from your school days, there is absolutely
no reason why you should change and update

2886. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 17:43:23 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <4a046f3b$0$848$4fafbaef@reader5.news.tin.it>
Source record: 15710

```
--
-----------------------------------------------------
Antonio Vernucci, I0JX US call: K0JX
Beacons: 50.004 MHz & 70.088 MHz
Home page: http://www.qsl.net/i0jx
e-mail: k0jx {at} amsat {dot} org
-----------------------------------------------------
"Jeff" <jeff@local.host> ha scritto nel messaggio
news:4a046a6a$0$1344$834e42db@reader.greatnowhere.com...
> "Antonio Vernucci" <vernucci@tin.it> wrote in message
> news:4a045f79$0$840$4fafbaef@reader5.news.tin.it...
>>I think this message can be of interest for those using Excel for antenna
>>calculations.
>>
>> Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and not
>> 2+8=10) because Excel performs squaring before summing
>>
>> Write in another cell: =(8 - A1^2)
>>
>> They look pretty much the same
>>
>> But give A1 any non-zero value and see what happen.
>>
>> 73
>>
>> Tony I0JX
>> Rome, Italy
>>
>
> I see it give the correct answers!!!
>
> eg when A1 =2 the first formula =12 and the second =4
>
> -2 squared =4
> So 4 plus 8 = 12
>
> 2 squared =4
> So 8 - 4 = 4
>
> 8 - (2 squared) = 4

Yes, but the way Excel works is deceiving.

As a matter of fact, with reference to the general mathematical principle A+B =
B+A, let us have:
```

A= -A1^2
B = 8

Then, one would expect that -A1^2 + 8 is the same as 8 - A1^2, which is not the way Excel works.

73

Tony I0JX

2887. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 17:50:07 UTC
From: google@karinya.net
Message-ID: <3ddebbe9-92fe-4a66-b7bb-20864bd11a7d@g19g2000vbi.googlegroups.com>
Source record: 15711

Still here, and still trying to strip away the personal attacks to try to understand the various underlying technical opinions!

When I model a "bugcatcher" plus stinger using EZNEC, I see significantly less current at the top of the coil compared with the bottom of the coil. I also see a slight increase in current part way up the coil before it then decreases towards the top.

In reply to an earlier question of mine, Roy assured me that this current distribution was "real" and not some problem that EZNEC has modelling this arrangement.

I have two questions if I may:

1) Cecil: I believe I understand how the Corum transmission line model accounts nicely for the reduced current at the top of the coil. Does it also account for the slight increase in current a short way from the bottom?

2) Jim, Tom, Roy (and any others): It appears you think the Corum model is flawed, or not appropriate to the "bugcatcher". What I've not yet understood is what alternative model you are advocating which would match the EZNEC results more closely than the Corum model. I've heard at least Roy say that a lumped-inductor model is inappropriate, but I don't think I've yet heard any other model proposed. Perhaps I missed it?

Regards,
Steve G3TXQ

2888. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 18:43:48 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <T3%MI.28861$yr3.15887@nlpi068.nbdc.sbc.com>
Source record: 15712

google@karinya.net wrote:
> Still here, and still trying to strip away the personal attacks to try
> to understand the various underlying technical opinions!
>
> When I model a "bugcatcher" plus stinger using EZNEC, I see
> significantly less current at the top of the coil compared with the
> bottom of the coil. I also see a slight increase in current part way
> up the coil before it then decreases towards the top.
>
> In reply to an earlier question of mine, Roy assured me that this
> current distribution was "real" and not some problem that EZNEC has
> modelling this arrangement.
>
> I have two questions if I may:
>
> 1) Cecil: I believe I understand how the Corum transmission line model
> accounts nicely for the reduced current at the top of the coil. Does
> it also account for the slight increase in current a short way from
> the bottom?
>
> 2) Jim, Tom, Roy (and any others): It appears you think the Corum
> model is flawed, or not appropriate to the "bugcatcher". What I've not
> yet understood is what alternative model you are advocating which
> would match the EZNEC results more closely than the Corum model. I've
> heard at least Roy say that a lumped-inductor model is inappropriate,
> but I don't think I've yet heard any other model proposed. Perhaps I
> missed it?
>
> Regards,
> Steve G3TXQ

EZNEC _is_ a model. If you can accept that, then you've got your model.
If you want to know why current is less at one end of the bugcatcher
coil than at the other, you'll have to study electromagnetic theory.
(Try adding a large top hat to the bug catcher and see what that does
to the current in the coil.) If you're satisfied with Cecil's work,
fine. Whatever works for you. Rules of thumb and such sometimes work
pretty well. The late Reg Edwards knew that and worked out some programs
that relied on such. You might want to see if you can find some of his
work on the web.
73,
Tom Donaly, KA6RUH

2889. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 18:59:35 UTC
From: "Helmut Wabnig"
Message-ID: <hlv8059s4m5e6hp6ro5do0d6qoksg9sn7b@4ax.com>
Source record: 15713

On Fri, 8 May 2009 18:36:08 +0200, "Antonio Vernucci"
<vernucci@tin.it> wrote:

>I think this message can be of interest for those using Excel for antenna
>calculations.
>
>Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and not
>2+8=10) because Excel performs squaring before summing
>
>Write in another cell: =(8 - A1^2)
>
>They look pretty much the same
>
>But give A1 any non-zero value and see what happen.
>
>73
>
>Tony I0JX
>Rome, Italy

In correct mathematical convention the expression
let A1 = 2 then

-A1^2 must yield

-A1^2 = -4

otherwise we would have to write
(-A1)^2 = 4

EXCEL does it the wrong way in example 1: =(-A1^2 + 8) = 12
and does it correctly in example 2 =(8 - A1^2) = 4.
But they are from Microsoft and they can do whatever they want.

w.

2890. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:02:23 UTC
From: "Helmut Wabnig"
Message-ID: <7c0905hudtv0nrllafhug3bvjjtm3a6uvi@4ax.com>
Source record: 15714

On Fri, 08 May 2009 20:59:35 +0200, Helmut Wabnig <hwabnig@ .- --- -.
dotat> wrote:

>On Fri, 8 May 2009 18:36:08 +0200, "Antonio Vernucci"
><vernucci@tin.it> wrote:
>
>>I think this message can be of interest for those using Excel for antenna
>>calculations.
>>
>>Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and not
>>2+8=10) because Excel performs squaring before summing
>>
>>Write in another cell: =(8 - A1^2)
>>
>>They look pretty much the same
>>
>>But give A1 any non-zero value and see what happen.
>>
>>73
>>
>>Tony I0JX
>>Rome, Italy
>
>In correct mathematical convention the expression
>let A1 = 2 then
>
>-A1^2 must yield
>
>-A1^2 = -4
>
>otherwise we would have to write
>(-A1)^2 = 4
>
>EXCEL does it the wrong way in example 1: =(-A1^2 + 8) = 12
>and does it correctly in example 2 =(8 - A1^2) = 4.
>But they are from Microsoft and they can do whatever they want.
>
>w.
TYPO correction
>and does it correctly in example 2: =(8 - A1^2) = 4.

2891. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:19:53 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <4a0485da$0$1109$4fafbaef@reader4.news.tin.it>
Source record: 15715

```
--
-----------------------------------------------------
Antonio Vernucci, I0JX US call: K0JX
Beacons: 50.004 MHz & 70.088 MHz
Home page: http://www.qsl.net/i0jx
e-mail: k0jx {at} amsat {dot} org
-----------------------------------------------------
"Helmut Wabnig" <hwabnig@ .- --- -. dotat> ha scritto nel messaggio
news:7c0905hudtv0nrllafhug3bvjjtm3a6uvi@4ax.com...
> On Fri, 08 May 2009 20:59:35 +0200, Helmut Wabnig <hwabnig@ .- --- -.
> dotat> wrote:
>
>>On Fri, 8 May 2009 18:36:08 +0200, "Antonio Vernucci"
>><vernucci@tin.it> wrote:
>>
>>>I think this message can be of interest for those using Excel for antenna
>>>calculations.
>>>
>>>Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and not
>>>2+8=10) because Excel performs squaring before summing
>>>
>>>Write in another cell: =(8 - A1^2)
>>>
>>>They look pretty much the same
>>>
>>>But give A1 any non-zero value and see what happen.
>>>
>>>73
>>>
>>>Tony I0JX
>>>Rome, Italy
>>
>>In correct mathematical convention the expression
>>let A1 = 2 then
>>
>>-A1^2 must yield
>>
>>-A1^2 = -4
>>
>>otherwise we would have to write
>>(-A1)^2 = 4
>>
>>EXCEL does it the wrong way in example 1: =(-A1^2 + 8) = 12
>>and does it correctly in example 2 =(8 - A1^2) = 4.
```

>>But they are from Microsoft and they can do whatever they want.
>>
>>w.
> TYPO correction
>>and does it correctly in example 2: =(8 - A1^2) = 4.

2892. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:21:39 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gu20pd$h80$1@news.service.uci.edu>
Source record: 15719

google@karinya.net wrote:
> Still here, and still trying to strip away the personal attacks to try
> to understand the various underlying technical opinions!

Same here.

> 2) Jim, Tom, Roy (and any others): It appears you think the Corum
> model is flawed, or not appropriate to the "bugcatcher".

For me, it's the latter.

> What I've not
> yet understood is what alternative model you are advocating which
> would match the EZNEC results more closely than the Corum model. I've
> heard at least Roy say that a lumped-inductor model is inappropriate,
> but I don't think I've yet heard any other model proposed. Perhaps I
> missed it?
>
> Regards,
> Steve G3TXQ

Hi Steve,

Personally, I think some actual measurements would help enormously in
formulating/evaluating a model. Otherwise all we have is hand waving
and proselytizing.

73, ac6xg

2893. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:23:50 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8ff2a712-b503-43db-974f-40bf18e2c7e5@s16g2000vbp.googlegroups.com>
Source record: 15716

On May 8, 9:01 am, Michael Coslo <m...@psu.edu> wrote:
> Roy Lewallen wrote:
> > It's not very simple.
>
> > Except for monochromatic light sources like lasers, light of any color
> > contains multiple spectral lines. Sunlight or, for example, an
> > incandescent bulb or red hot electric stove element contains a
> > continuous spectrum, or effectively an infinite number of spectral lines
> > or "colors". So you can't duplicate these with any finite number of
> > spectral lines. The interesting thing is that with only three spectral
> > lines (pure monochromatic colors) you can produce light that *looks*
> > line nearly any color of light that's really made from many spectral
> > lines.
>
>   AHa! I was going to write about the emulation of color, but wasn't sure
> if I'd just confuse things. But you've done a good job describing it, so
> here we are.
>
>   So called "Lippmann" emulsions can do color correctly, but they work on
> a wavefront basis instead of combining colors.(the individual particles
> of silver are extremely small, so they can do that) A color Lippmann
> image can be gorgeous, but they are really difficult to make, so are
> more of a curiosity than anything else.
>
> > which is why they're common, but no choice can mimic all. I notice that
> > some color printers have more ink colors, which I assume allows an even
> > wider range.
>
> That's a big part of it. Inkjets have some mechanical issues too, such
> as the best looking colors might not last very long, or a good long
> lasting color might be hard to squeeze through the little jets. SO we
> get stuck with multiple color cartridges. But for the purposes at hand,
> the color perception issue is the big one, and the others can be ignored.
>
>   - 73 de Mike N3LI -

But guys you are jumping to fast with your statements and conclusions.
Go back to the basics and start afresh.
Remember we are seeing color as representitive of temperature and the
mass and potential energy that is affected by a particles passage
thru a medium. Thus the temperature spectrum compares with the total
color spectrum which covers all the frequencies involved.
Thus a clump or cluster of particles entering a different medium
represents all frequencies and dependent on the dispelled kinetic

energy of each with respect to their mass covers all the colors
possible. In other words a single particle disposed to the red
spectrum
can supply all the different hues of red all of which are dependent on
the mass,
expended kinetic energy, and the ratio of expended energy to
potential energy when encountering a change of medium. A blacksmith
does this all the time when reviewing color on the impact of his
hammer without thinking. Even the X ray frequencies have color
Art

2894. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:24:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <NF%MI.29457$YU2.7547@nlpi066.nbdc.sbc.com>
Source record: 15717

google@karinya.net wrote:
> 1) Cecil: I believe I understand how the Corum transmission line model
> accounts nicely for the reduced current at the top of the coil. Does
> it also account for the slight increase in current a short way from
> the bottom?

I will say, apparently not. The Corum equations are stated
to be plus or minus 10 percent. The current increase in the
coil appears to be about 10%.

Typically, the current increases from a normalized 1.0 at
the bottom of the coil to about 1.1 close to the middle
and then falls off from there to 0.8 or so. Empirically,
it seems that one can take the rise in current, i.e. 0.1,
from the bottom of the coil to the middle of the coil and
subtract that value from the current at the top of the
coil to compensate mathematically for the curve not being
a pure cosine curve because of end-effects of the coil.

Example: Given a coil with a current of 1.0 at the bottom,
1.1 at the midpoint, and 0.8 at the top. It appears that
the ARCCOS(0.8-0.1) = ARCCOS(0.7) may yield an approximation
for the delay in degrees through the coil, i.e. ARCCOS(0.7)
equals ~45 degrees.

This makes sense to me since the current profile through
the coil is obviously not a pure cosine wave. It is obviously
distorted by the turn-to-turn coupling of the fields. But
just as obviously, this is an empirical curve-fitting technique
as used by Drs. Corum.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2895. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:28:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xJ%MI.29458$YU2.27068@nlpi066.nbdc.sbc.com>
Source record: 15718

Antonio Vernucci wrote:
> But give A1 any non-zero value and see what happen.

It appears that EXCEL uses the Microsoft BASIC engine
for its calculations. Those problems are well understood
by BASIC users. Hint: use more parentheses.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2896. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:35:30 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <4a048983$0$1113$4fafbaef@reader4.news.tin.it>
Source record: 15720

>>In correct mathematical convention the expression
>>let A1 = 2 then
>>
>>-A1^2 must yield
>>
>>-A1^2 = -4
>>
>>otherwise we would have to write
>>(-A1)^2 = 4

I share your opinion. But there are two Microsofts.

- for Microsoft#1, that is Excel: (-2^2 + 8) = 12

- for Microsoft#2, that is Visual Basic: (-2^2 + 8) = 4

Funny, isn't it?

Antonio I0JX

2897. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:39:01 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <4a048a56$0$1117$4fafbaef@reader4.news.tin.it>
Source record: 15721

> It appears that EXCEL uses the Microsoft BASIC engine
> for its calculations. Those problems are well understood
> by BASIC users. Hint: use more parentheses.

Yes, that is what I normally do.

Anyway it is good to keep in mind that:

- for Excel: (-2^2 + 8) = 12

- for Visual Basic: (-2^2 + 8) = 4

73

Tony I0JX

2898. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:46:05 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gu225t$hk34$1@tr22n12.aset.psu.edu>
Source record: 15722

```
Cecil Moore wrote:
> Antonio Vernucci wrote:
>> But give A1 any non-zero value and see what happen.
>
> It appears that EXCEL uses the Microsoft BASIC engine
> for its calculations. Those problems are well understood
> by BASIC users. Hint: use more parentheses.

More Cowbell maybe?
```

2899. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 19:51:08 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <YW%MI.3797$fD.1536@flpi145.ffdc.sbc.com>
Source record: 15723

Jim Kelley wrote:
> Personally, I think some actual measurements would help enormously in
> formulating/evaluating a model. Otherwise all we have is hand waving
> and proselytizing.

I have reported my 25 nS actual measurements
using my dual-trace 100 MHz o'scope.

I assume that your physics lab has the ability
to perform such a simple measurement. May I
suggest that you simply perform the experiment
and report the results - or get one of your
students to do it.

I suspect that others have done such experiments,
measured what I measured, and are withholding the
results for obvious reasons.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2900. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 20:01:12 UTC
From: richardharrison@webtv.net
Message-ID: <26923-4A048F88-1487@storefull-3173.bay.webtv.net>
Source record: 15724

Art wrote:
"Thus Kraus`s antennas are not in equilibrium and thus deviated away
from Maxwell`s laws."

Impossible.

Maxwell`s laws are all that is nscessary and sufficient to describe
radiation from any antenna.

On page 37 of Kraus & Marthelka`s "Antennas for All Applications" one
can read:

"Although a charge moving with uniform velocity along a sreaighr
conductor does not radiate, a charge moving back and forth in simple
harmonic motion along the conductor is subject to aceleration (and
deceleration) and radiates."

To better understand Maxwell and radiation, I recommend
"Radio-Electronic Transmission Fundamentals" by B. Whitfield Griffith,
Jr (now reprinted by Scitech Publishing Inc..

See "Directive Patterns Over Real Groind" in the "ARRL Antenna Book"
for how rays combine to make a pattern.

Best regards, Richard Harrison, KB5WZI

2901. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 20:38:59 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gu25adiqq1@news.service.uci.edu>
Source record: 15725

Cecil Moore wrote:

> I assume that your physics lab has the ability
> to perform such a simple measurement. May I
> suggest that you simply perform the experiment
> and report the results - or get one of your
> students to do it.

I'm not the one hawking the tonic, Cecil. But send me the coil, and
I'll happily test it, report back, and return it to you after.

ac6xg

2902. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 21:24:24 UTC
From: google@karinya.net
Message-ID: <c27a9ce1-42b9-4581-95ef-a9a45d81f38a@r34g2000vbi.googlegroups.com>
Source record: 15726

Jim,

I don't have the measurement capabilities that some of you folk have, so I'm just using EZNEC as my "experimental equipment". I'm being assured that it's representative of what I would see "for real", and it's easier pressing keys than building new test equipment :) Are you suggesting that "real world" current measurements would be significantly different than the EZNEC predictions?

I gather from your response that you feel the Corum model is inappropriate for the "bugcatcher", but you're not advocating an alternative? That's the part I struggle with - if a model gets close (albeit not perfect) to predicting "real world" performance, and there's no other alternative being put forward, I don't see the reason for rejecting it so forcefully?

73,
Steve G3TXQ

On May 8, 8:21 pm, Jim Kelley <jwkel...@uci.edu> wrote
>
> Hi Steve,
>
> Personally, I think some actual measurements would help enormously in
> formulating/evaluating a model. Otherwise all we have is hand waving
> and proselytizing.
>
> 73, ac6xg

2903. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 21:44:31 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <hJ1Nl.15947$hc1.9692@flpi150.ffdc.sbc.com>
Source record: 15727

google@karinya.net wrote:
> Jim,
>
> I don't have the measurement capabilities that some of you folk have,
> so I'm just using EZNEC as my "experimental equipment". I'm being
> assured that it's representative of what I would see "for real", and
> it's easier pressing keys than building new test equipment :) Are you
> suggesting that "real world" current measurements would be
> significantly different than the EZNEC predictions?
>
> I gather from your response that you feel the Corum model is
> inappropriate for the "bugcatcher", but you're not advocating an
> alternative? That's the part I struggle with - if a model gets close
> (albeit not perfect) to predicting "real world" performance, and
> there's no other alternative being put forward, I don't see the reason
> for rejecting it so forcefully?
>
> 73,
> Steve G3TXQ
>
>
> On May 8, 8:21 pm, Jim Kelley <jwkel...@uci.edu> wrote
>> Hi Steve,
>>
>> Personally, I think some actual measurements would help enormously in
>> formulating/evaluating a model. Otherwise all we have is hand waving
>> and proselytizing.
>>
>> 73, ac6xg
>
>

You know quite a bit about antennas, Steve, so you should know the
answer to the following:
1. Mathematically, what does MoM do?
2. Why would anyone use MoM if there were a set of symbolic equations
that would work just as well?
3. When are we going to see the Corum-Moore method in the textbooks?
73,
Tom Donaly, KA6RUH

2904. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 22:04:34 UTC
From: google@karinya.net
Message-ID: <12ccb332-6d41-4156-8bb3-b8e4a374f909@o27g2000vbd.googlegroups.com>
Source record: 15728

Hi Tom,

Well I don't know as much about antennas as I would like :)

I take your response to mean that you think only MoM can model a "bugcatcher" coil accurately, and that you are dismissing the apparent accuracy with which the Corum model predicts some coil performance parameters?

I don't subscribe to the Corum-Moore "label". The genesis of the transmission-line approach to coil analysis seems to go back a long way from what I've read, and I don't think Cecil deserves or claims any recognition for it. Besides the method might suddenly begin to appear in all the text books - think how you'd feel then if it included his name;)

Steve G3TXQ

On May 8, 10:44 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
>
> You know quite a bit about antennas, Steve, so you should know the
> answer to the following:
> 1. Mathematically, what does MoM do?
> 2. Why would anyone use MoM if there were a set of symbolic equations
> that would work just as well?
> 3. When are we going to see the Corum-Moore method in the textbooks?
> 73,
> Tom Donaly, KA6RUH

2905. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 22:22:40 UTC
From: Bruce <xxx@yyy.zzz>
Message-ID: <Xns9C05BCDA94E2Fxxxyyyzzz@216.77.188.18>
Source record: 15729

"Antonio Vernucci" <vernucci@tin.it> wrote in
news:4a046f3b$0$848$4fafbaef@reader5.news.tin.it:

> Subject: Re: Be careful when using Excel
> From: "Antonio Vernucci" <vernucci@tin.it>
> Newsgroups: rec.radio.amateur.antenna
> Reply-To: "Antonio Vernucci" <vernucci@tiscali.it>
>
>
>
> --
> --
> Antonio Vernucci, I0JX US call: K0JX
> Beacons: 50.004 MHz & 70.088 MHz
> Home page: http://www.qsl.net/i0jx
> e-mail: k0jx {at} amsat {dot} org
> --
> "Jeff" <jeff@local.host> ha scritto nel messaggio
> news:4a046a6a$0$1344$834e42db@reader.greatnowhere.com...
>> "Antonio Vernucci" <vernucci@tin.it> wrote in message
>> news:4a045f79$0$840$4fafbaef@reader5.news.tin.it...
>>>I think this message can be of interest for those using Excel for
>>>antenna calculations.
>>>
>>> Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2
>>> (and not 2+8=10) because Excel performs squaring before summing
>>>
>>> Write in another cell: =(8 - A1^2)
>>>
>>> They look pretty much the same
>>>
>>> But give A1 any non-zero value and see what happen.
>>>
>>> 73
>>>
>>> Tony I0JX
>>> Rome, Italy
>>>
>>
>> I see it give the correct answers!!!
>>
>> eg when A1 =2 the first formula =12 and the second =4
>>
>> -2 squared =4

>> So 4 plus 8 = 12
>>
>> 2 squared =4
>> So 8 - 4 = 4
>>
>> 8 - (2 squared) = 4
>
> Yes, but the way Excel works is deceiving.
>
> As a matter of fact, with reference to the general mathematical
> principle A+B = B+A, let us have:
> A= -A1^2
> B = 8
>
> Then, one would expect that -A1^2 + 8 is the same as 8 - A1^2, which
> is not the way Excel works.

So just what were you expecting to get? Were you expecting -A1^2 to
really be -(A1^2)?

-Bruce

2906. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 23:06:37 UTC
From: Dave <noone@nowhere.com>
Message-ID: <1W2Nl.89$5F2.4@nwrddc01.gnilink.net>
Source record: 15730

```
"Antonio Vernucci" <vernucci@tin.it> wrote in message
news:4a048983$0$1113$4fafbaef@reader4.news.tin.it...
>>>In correct mathematical convention the expression
>>>let A1 = 2 then
>>>
>>>-A1^2 must yield
>>>-A1^2 = -4
>>>
>>>otherwise we would have to write
>>>(-A1)^2 = 4
>
> I share your opinion. But there are two Microsofts.
>
> - for Microsoft#1, that is Excel: (-2^2 + 8) = 12
>
> - for Microsoft#2, that is Visual Basic: (-2^2 + 8) = 4
>

at least they are doing what their help says they should do. in vb6
exponentiation is done before negation. in excel negation is done before
exponentiation. when in doubt use more parenthesis than you think you
should to be sure the calculation is done in the order you are expecting.
```

2907. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 23:07:48 UTC
From: Dave <noone@nowhere.com>
Message-ID: <8X2NI.91$5F2.79@nwrddc01.gnilink.net>
Source record: 15731

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:e5c8c6ec-9a8d-452d-9181-bf8872217a16@p4g2000vba.googlegroups.com...
>Atta boy,
> Keep using that slide rule from your school days, there is absolutely
>no reason why you should change and update

actually, i think i still have one or two of those laying around here
somewhere.

2908. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-08 23:33:47 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gu2fi6nij1@news.service.uci.edu>
Source record: 15732

google@karinya.net wrote:
> Jim,
>
> I don't have the measurement capabilities that some of you folk have,
> so I'm just using EZNEC as my "experimental equipment". I'm being
> assured that it's representative of what I would see "for real", and
> it's easier pressing keys than building new test equipment :) Are you
> suggesting that "real world" current measurements would be
> significantly different than the EZNEC predictions?

Steve,

Try not to read too much into what I say. It'll save us both some aggravation. What I have said is that in order to validate any particular model, one should make measurements. I don't think there's anything particularly inflammatory or hostile in that view. I respect both Roy and Cecil for their work, though Roy is considerably more careful is his use of mathematics, and I feel has considerably more expertise in RF engineering and physics. I have no particular knowledge or opinion on Cecil's EZNEC files, other than his rather odd take standing wave current phase shift - whatever that is.

So why don't you tell us what you think.

73, ac6xg

2909. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 00:07:46 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a04c917$0$18863$8046368a@newsreader.iphouse.net>
Source record: 15733

Art Unwin wrote:
>
> Atta boy,
> Keep using that slide rule from your school days, there is absolutely
> no reason why you should change and update

Art

Your answers are just as wrong with a slide rule, an HP15C, Fortran IV on a 360/65, C on a 64 bit AMD or anything else you can find.

And denigrating slide rules is silly. Most of the world that surrounds you was calculated with a slide rule's resolution. When used properly they give answers that are as accurate as is needed for engineering.

You obviously have no clue as to what it takes to do engineering calculations.

Richard, if I used terms improperly, I ask forgiveness.

tom
K0TAR

2910. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 06:06:21 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <R39Nl.21977$as4.10726@nlpi069.nbdc.sbc.com>
Source record: 15734

google@karinya.net wrote:
> Hi Tom,
>
> Well I don't know as much about antennas as I would like :)
>
> I take your response to mean that you think only MoM can model a
> "bugcatcher" coil accurately, and that you are dismissing the apparent
> accuracy with which the Corum model predicts some coil performance
> parameters?
>
> I don't subscribe to the Corum-Moore "label". The genesis of the
> transmission-line approach to coil analysis seems to go back a long
> way from what I've read, and I don't think Cecil deserves or claims
> any recognition for it. Besides the method might suddenly begin to
> appear in all the text books - think how you'd feel then if it
> included his name;)
>
> Steve G3TXQ
>
>
>
> On May 8, 10:44 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
>> You know quite a bit about antennas, Steve, so you should know the
>> answer to the following:
>> 1. Mathematically, what does MoM do?
>> 2. Why would anyone use MoM if there were a set of symbolic equations
>> that would work just as well?
>> 3. When are we going to see the Corum-Moore method in the textbooks?
>> 73,
>> Tom Donaly, KA6RUH
>

Nothing would please me more than to see Cecil get his name as a
reference in some textbook. It would mean that there was a high
probability that he finally got it right, and that someone confirmed
his ideas experimentally. It would also give me a good laugh.

You know, you haven't shown that the Corum model accurately measures
the bugcatcher coil. You have stated - and I have no reason to
disbelieve you - that the Corum model agrees with EZNEC. If that's the
case, it's just as easy to use EZNEC, right or wrong. MoM is a method of
obtaining numerical solutions to integral equations. The only reason to
do that is if symbolic solutions are either too difficult or impossible
to puzzle out of those same integral equations. In other words, some
very deep thinkers decided that MoM would give results superior to

algebraic approximations and hand waving, so they applied it to antenna analysis. I don't think it's perfect. It's certainly useful. If you think Corum is good enough for your purposes, though, go for it.

You didn't answer my first two questions, above. That's o.k., they're just something you should think about anyway. Besides, I didn't answer yours concerning why we keep tearing the Corum-as-developed-by-Cecil method down without offering an alternative. Perhaps there is no alternative. Perhaps the best anyone can do is a numerical approximation. Think about that.
73,
Tom Donaly, KA6RUH

2911. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 06:25:36 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <Nd9Nl.3843$fD.2395@flpi145.ffdc.sbc.com>
Source record: 15735

Tom Ring wrote:
> Art Unwin wrote:
>>
>> Atta boy,
>> Keep using that slide rule from your school days, there is absolutely
>> no reason why you should change and update
>
> Art
>
> Your answers are just as wrong with a slide rule, an HP15C, Fortran IV
> on a 360/65, C on a 64 bit AMD or anything else you can find.
>
> And denigrating slide rules is silly. Most of the world that surrounds
> you was calculated with a slide rule's resolution. When used properly
> they give answers that are as accurate as is needed for engineering.
>
> You obviously have no clue as to what it takes to do engineering
> calculations.
>
> Richard, if I used terms improperly, I ask forgiveness.
>
> tom
> K0TAR

There's no point in asking forgiveness from Richard. He's read _Through the Looking Glass_:

"I don't know what you mean by 'glory,'" Alice said.
Humpty Dumpty smiled contemptuously. "Of course you
don't - till I tell you. I meant 'there's a nice knock-down
argument for you!'"
"But 'glory' doesn't mean 'a nice knock-down argument,'" Alice
objected.
"When I use a word," Humpty Dumpty said, in rather a scornful tone,
"it means just what I choose it to mean, neither more nor less."
"The question is," said Alice, "whether you _can_ make words mean
so many different things."
"The question is," said Humpty Dumpty, "which is to be master -- thats
all."

73,
Tom Donaly, KA6RUH

2912. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 06:53:10 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C06ABC6E15F4nonenowhere@61.9.191.5>
Source record: 15736

"Antonio Vernucci" <vernucci@tin.it> wrote in
news:4a045f79$0$840$4fafbaef@reader5.news.tin.it:

> I think this message can be of interest for those using Excel for
> antenna calculations.
>
> Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and
> not 2+8=10) because Excel performs squaring before summing
>
> Write in another cell: =(8 - A1^2)

Do you realise that the '-' in both expressions are quite different in
meaning, one is a unary negation operator, the other is the binary
subract operator.

No magic there, force the - to be a unary operator, and it behaves
consistently, eg 8+-2^2 gives 12.

>
> They look pretty much the same

Not to a programmer!

Owen
>
> But give A1 any non-zero value and see what happen.
>
> 73
>
> Tony I0JX
> Rome, Italy
>

2913. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 07:16:31 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu31q8mfr1@node1.news.atman.pl>
Source record: 15737

"Brian Howie" <brian@nospam.demon.co.uk> wrote
news:y8SRT+CwCFBKFwPE@b-howie.demon.co.uk...
> In message <ACVMl.5102$b11.2764@nwrddc02.gnilink.net>, Dave
> <noone@nowhere.com> writes
>>
>>"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>>news:gu0j07$9hn$1@node1.news.atman.pl...
>>> It seems that at long distances should appear the phenomenon of
>>> frequency doubling.
>>> See: http://www.rp-photonics.com/frequency_doubling.html
>>>
>>> Is such?
>>> S*
>>not that has been reported anywhere i have seen. this is likely because
>>that at the low amplitudes of radio waves relative to the energies needed
>>to create non-linear effects the medium is close enough to linear that any
>>doubling effect is too small to see.
>
>
> You can get ionospheric mixing of radio waves. e.g Luxembourg Effect; so
> doubling is possible.
>
> I also once heard a mixing effect of the 10MHz Time signal MSF with the
> 60KHz time signal ,producing two sidebands at 10.060 and 9.030 MHz, but
> that could have been an effect at the transmitter site.
>
> Maybe WWV does the same - take a listen; it's not strong enough here.

My knowledge on radio waves starts and ends on the description of the Hertz
experiment. So my questions apply to the half wave dipoles.
In the acoustic analogy the Hertz emitter (dipole with the two big balls on
its ends) works like the two monopoles halve wave apart (of course not in
phase). In a few meters from it the Hertz receiver (ring with the two small
balls) works only if parallel. When the receiver is parallel with the
emitter the spherical wave from the upper ball push the electron to lower
halve of the
receiwer and the small spark jump. The frequency is the same
In other orientations the electron in the ring are also moved but the
voltage is equal and no sparks.

But at long distances on every piece of metal acts the two alternating
electric field from the two monopoles. The frequency must be doubled.
Are now antennas similar to Hertz dipole?
Is the frequency doubled.
S*

2914. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 07:24:48 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu329pmhj1@node1.news.atman.pl>
Source record: 15738

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote
news:e7c20dfa-499c-4482-816d-88232116ffa2@n8g2000vbb.googlegroups.com...
On May 8, 4:51 am, Szczepan Biaďž˝ek <sz.bia...@wp.pl> wrote:
>> It seems that at long distances should appear the phenomenon of frequency
> doubling.
> See:http://www.rp-photonics.com/frequency_doubling.html
>
> Is such?
> S*

>The laser must be fed into a non-linear medium for the doubling to
occur. The same would be true for RF.Normally the atmosphere and space
are considered fairly linear in respect to both RF and light, both
forms of EM radiation. Luckily for us this is the case, otherwise all
radiation would be multipled to xrays and beyound. The result would
probablybe the termination of all life as we know it.

Very interesting.
May be it take place. You do not analse the intensity after each doubling.
My question apply to the two sources emitters (oscillatig dipole) in a
lineaar medium.
S*

2915. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 07:37:24 UTC
From: Antonio Vernucci <vernucci@tin.it>
Message-ID: <4a0532b5$0$47551$4fafbaef@reader1.news.tin.it>
Source record: 15739

> Do you realise that the '-' in both expressions are quite different in
> meaning, one is a unary negation operator, the other is the binary
> subract operator.

I realise, but Microsoft apparently does not:

- for Excel: (-2^2 + 8) = 12
- for Visual Basic: (-2^2 + 8) = 4

>> They look pretty much the same
> Not to a programmer!

I would expect that some programmers may get confused, due to the inconsistency
of software products of the same company.

Tony I0JX

2916. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 08:02:12 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu34fsmph1@node1.news.atman.pl>
Source record: 15740

Uďż˝ytkownik <wimabctel@tetech.nl> napisaďż˝ w wiadomoďż˝ci
news:e1617758-86bf-4564-bcc8-8784d70cd9d5@s21g2000vbb.googlegroups.com...
On 8 mayo, 10:35, Szczepan Biaďż˝ek <sz.bia...@wp.pl> wrote:
>> I start reading about acoustic analogy.
> I found that: "Over long distances, the atmosphere can cause the
> polarization of a radio wave to fluctuate, so the distinction between
> horizontal and vertical becomes less significant."
> From:http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html
>
>> The my question are:
> 1. What means "long distances" in km (or miles),
> 2. What is the best orientation of the antenna for long distances.
>> S*

>Hello,

>Under normal circumstances, polarization change in line-off-site
conditions (think of max 40 mile) is not that much, so antenna
polarization does matter (unless you use at least circular
polarization on one side).

>In a propagation path that is dominated by multi-path effects
(reflection at buildings, hills, foliage, etc), you get almost random
polarization and then the polarization is not that important. Your
cell phone and indoor WIFI are examples.

>Extreme weather conditions can also lead to polarization changes or a
random polarization component (ducting superrefraction).

>For sea water up to VHF, reflection depends on polarization. For
ground-ground links (for example ship shore) mostly vertical
polarization is used (as the sea water helps in this case). So if you
want to receive these communication, you use a vertical polarized
antenna.

>The largest change in polarization you will get when the waves have to
travel through the ionosphere. At HF (ground-ground link via
ionosphere), the polarization vector rotates many times. This is due
to Faraday rotation. Also ground-satellite links suffer from this
effect. The higher the frequency, the less the change in polarization.
For example at 100 MHz you should think about 30 full rotations (that
is more then 10k degrees), while at 10 GHz the change in polarization
will be about 1 degree. Circular polarization may help to mitigate the
influence of Faraday rotation.

>At HF sky wave (100....>1000 mile via ionosphere) polarization of the antenna matters. This is not because of the polarization change of the waves due to Faraday rotation, but because of the reflection characteristics of mother earth. In HF antennas, reflection on mother earth is used (in combination with antenna height) to get the required elevation radiation pattern of the antenna. Reflection on earth depends on polarization.

>Hopefully this helps you a bit.

You do not use the words "transversal" and "EM". The only evidence of polarization is antenna directional sensitivity.

In the acoustic analogy a radio waves are normal spherical electric waves emitted from the two sources (ends of the dipole).
So the sources are polarised, not the waves. Waves interfere. Do you agree?
See my topic "frequency doubling" . I am only a science hobyist.

The second question was: " What is the best orientation of the antenna for long distances?
For old radio antennas. Very long horizontal wire.

Best regards,
S*

2917. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 08:40:32 UTC
From: google@karinya.net
Message-ID: <9109c72a-84f0-435c-9ed5-5faea3c090bf@s31g2000vbp.googlegroups.com>
Source record: 15741

Tom,

I thought I'd quoted some numbers in the related "Dish reflector"
thread - apologies if I did not. Here are some more:

* I modelled a coil as a spiral in EZNEC (40T, diameter=6",
length=12", #14 copper wire)
* I added a 6ft "stinger" and found the frequency where the
combination was resonant: 3.79 MHz
* I checked the feedpoint impedance without the coil present: 0.46-
j2439
* That tells me the "lumped circuit equivalent" reactance of the coil
at 3.79 MHz is +j2439 ohms
* I found the frequency where the coil was resonant with no "stinger":
6.2 MHz

Now I look at what ON4AA's "Corum method" inductance calculator tells
me:

* "Lumped circuit equivalent" reactance at 3.79 MHz: +j2449
* Self-resonant frequency: 6.3 MHz

Unless I'm missing an option, if I want to predict the RF
characteristics of a "bugcatcher" it seems I have 3 choices:

* Use Wheeler's formula
* Build a helical model in EZNEC
* Use the Corum method

Wheeler's formula is inappropriate at frequencies close to a coil's
SRF.

EZNEC and the Corum method give very close results. The Corum formulas
are not difficult to use; even if they were, there is an on-line
calculator which removes the need for any maths. So it seems to me the
Corum formulas would be the more convenient tool to use, at least for
a "first look".

73,
Steve G3TXQ

On May 9, 7:06 am, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
>
> You know, you haven't shown that the Corum model accurately measures
> the bugcatcher coil. You have stated - and I have no reason to
> disbelieve you - that the Corum model agrees with EZNEC. If that's the
> case, it's just as easy to use EZNEC, right or wrong. MoM is a method of

> obtaining numerical solutions to integral equations. The only reason to
> do that is if symbolic solutions are either too difficult or impossible
> to puzzle out of those same integral equations. In other words, some
> very deep thinkers decided that MoM would give results superior to
> algebraic approximations and hand waving, so they applied it to antenna
> analysis. I don't think it's perfect. It's certainly useful. If you
> think Corum is good enough for your purposes, though, go for it.
>

2918. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 08:40:58 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C06BE0D93AB3nonenowhere@61.9.191.5>
Source record: 15742

"Antonio Vernucci" <vernucci@tin.it> wrote in
news:4a0532b5$0$47551$4fafbaef@reader1.news.tin.it:

>> Do you realise that the '-' in both expressions are quite different
>> in meaning, one is a unary negation operator, the other is the binary
>> subract operator.
>
> I realise, but Microsoft apparently does not:
>
> - for Excel: (-2^2 + 8) = 12
> - for Visual Basic: (-2^2 + 8) = 4
>
>>> They look pretty much the same
>> Not to a programmer!
>
> I would expect that some programmers may get confused, due to the
> inconsistency of software products of the same company.

Do not assume that all languages or all products use the same operator
precedence rules.

The Excel rules are spelled out in the Excel help.

The key thing is that there is a difference in the meaning of '-' in the
uses as the negation operator and subtraction operator, same symbol, two
meanings, you need to understand that when looking in the list of
operator precedence.

Excel spells out clearly that unary negation has higher precedence than
exponentiation, and subtraction is lower than both... so keep that in
mind when writing formulae.

If you are writing VB, use the precedence rules for VB. The VB rules
clearly state that exponentiation has higher precedence than negation,
and subtraction is lower. This may have its roots before the existence of
Microsoft.

Many languages do not have an exponentiation operator, requiring
functions instead (often pow()). Such use eliminates the operator
precedence issue.

PERL does have an exponentiation operator, and it is higher precedence
than unary + and -.

FORTRAN90 does have an exponentiation operator, and it is higher
precedence than unary + and -.

It is part of the programming landscape... algebraic expressions are not universal, they need to be written for the specific language.

Now, I hear that you think that is a bad idea, but it isn't likely to change. It is most unlikely that a new version of any language will change operator precedence, it has too many issues.

Owen

2919. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 08:58:18 UTC
From: wimabctel@tetech.nl
Message-ID: <c2a4968f-da6c-49ee-9887-9c3a53d33ceb@r3g2000vbp.googlegroups.com>
Source record: 15743

On 9 mayo, 10:02, Szczepan Białek <sz.bia...@wp.pl> wrote:
> U¿ytkownik <wimabc...@tetech.nl> napisa³ w
wiadomo¶cinews:e1617758-86bf-4564-bcc8-8784d70cd9d5@s21g2000vbb.googlegroups.com...
> On 8 mayo, 10:35, Szczepan Bia³ek <sz.bia...@wp.pl> wrote:
>
> >> I start reading about acoustic analogy.
> > I found that: "Over long distances, the atmosphere can cause the
> > polarization of a radio wave to fluctuate, so the distinction between
> > horizontal and vertical becomes less significant."
> > From:http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html
>
> >> The my question are:
> > 1. What means "long distances" in km (or miles),
> > 2. What is the best orientation of the antenna for long distances.
> >> S*
> >Hello,
> >Under normal circumstances, polarization change in line-off-site
>
> conditions (think of max 40 mile) is not that much, so antenna
> polarization does matter (unless you use at least circular
> polarization on one side).
>
> >In a propagation path that is dominated by multi-path effects
>
> (reflection at buildings, hills, foliage, etc), you get almost random
> polarization and then the polarization is not that important. Your
> cell phone and indoor WIFI are examples.
>
> >Extreme weather conditions can also lead to polarization changes or a
>
> random polarization component (ducting superrefraction).
>
> >For sea water up to VHF, reflection depends on polarization. For
>
> ground-ground links (for example ship shore) mostly vertical
> polarization is used (as the sea water helps in this case). So if you
> want to receive these communication, you use a vertical polarized
> antenna.
>
> >The largest change in polarization you will get when the waves have to
>
> travel through the ionosphere. At HF (ground-ground link via
> ionosphere), the polarization vector rotates many times. This is due
> to Faraday rotation. Also ground-satellite links suffer from this

> effect. The higher the frequency, the less the change in polarization.
> For example at 100 MHz you should think about 30 full rotations (that
> is more then 10k degrees), while at 10 GHz the change in polarization
> will be about 1 degree. Circular polarization may help to mitigate the
> influence of Faraday rotation.
>
> >At HF sky wave (100....>1000 mile via ionosphere) polarization of the
>
> antenna matters. This is not because of the polarization change of the
> waves due to Faraday rotation, but because of the reflection
> characteristics of mother earth. In HF antennas, reflection on mother
> earth is used (in combination with antenna height) to get the required
> elevation radiation pattern of the antenna. Reflection on earth
> depends on polarization.
>
> >Hopefully this helps you a bit.
>
> You do not use the words "transversal" and "EM". The only evidence of
> polarization is antenna directional sensitivity.

You talked about radiowaves, that are EM waves. In free space, only
progapation mode is transversal (that means both E- and H-field are
perpendicular to the direction of energy propagation. With regards to
audio, in gas, only lossless propagation mode is longitudinal
(molecule movement and pressure vectors are parallel to the direction
of energy propagation) .
>
> In the acoustic analogy a radio waves are normal spherical electric waves
> emitted from the two sources (ends of the dipole).
> So the sources are polarised, not the waves. Waves interfere. Do you agree?

Not agree, the waves are also polarized, that can be physically
measured. Polarization is determined by the E-field vector.

> See my topic "frequency doubling" . I am only a science hobyist.
>
> The second question was: " What is the best orientation of the antenna for
> long distances?
> For old radio antennas. Very long horizontal wire.

On UHF (for example 2450 MHz), long distance can be 20 km, but on HF
500 km is not called long distance. So the meaning of long distance
depends on the frequency band.

You should distinguish between the actual polarization of the antenna
and the physical appearance. depending on how you feed it, a very long
horizontal wire can be sensitive to vertical or horizontal polarized
waves.

Though the equations for acoustical waves look similar to those of EM
waves, the orientation of the field components is completely
different. When you require a more specific answer, you should make

your question more specific. I tried to give you a general answer for
the various forms of radio wave propagation.

>
> Best regards,
> S*
Best regards,

Wim
PA3DJS
www.tetech.nl

2920. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 11:03:37 UTC
From: Dave <noone@nowhere.com>
Message-ID: <dqdNl.146$wR5.127@nwrddc02.gnilink.net>
Source record: 15744

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gu31q8mfr1@node1.news.atman.pl...
>
> "Brian Howie" <brian@nospam.demon.co.uk> wrote
> news:y8SRT+CwCFBKFwPE@b-howie.demon.co.uk...
>> In message <ACVMl.5102$b11.2764@nwrddc02.gnilink.net>, Dave
>> <noone@nowhere.com> writes
>>>
>>>"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>>>news:gu0j07$9hn$1@node1.news.atman.pl...
>>>> It seems that at long distances should appear the phenomenon of
>>>> frequency doubling.
>>>> See: http://www.rp-photonics.com/frequency_doubling.html
>>>>
>>>> Is such?
>>>> S*
>>>not that has been reported anywhere i have seen. this is likely because
>>>that at the low amplitudes of radio waves relative to the energies needed
>>>to create non-linear effects the medium is close enough to linear that
>>>any doubling effect is too small to see.
>>
>>
>> You can get ionospheric mixing of radio waves. e.g Luxembourg Effect; so
>> doubling is possible.
>>
>> I also once heard a mixing effect of the 10MHz Time signal MSF with the
>> 60KHz time signal ,producing two sidebands at 10.060 and 9.030 MHz, but
>> that could have been an effect at the transmitter site.
>>
>> Maybe WWV does the same - take a listen; it's not strong enough here.
>
> My knowledge on radio waves starts and ends on the description of the
> Hertz experiment. So my questions apply to the half wave dipoles.
> In the acoustic analogy the Hertz emitter (dipole with the two big balls
> on its ends) works like the two monopoles halve wave apart (of course not
> in phase). In a few meters from it the Hertz receiver (ring with the two
> small balls) works only if parallel. When the receiver is parallel with
> the emitter the spherical wave from the upper ball push the electron to
> lower halve of the
> receiwer and the small spark jump. The frequency is the same
> In other orientations the electron in the ring are also moved but the
> voltage is equal and no sparks.
>
> But at long distances on every piece of metal acts the two alternating

> electric field from the two monopoles. The frequency must be doubled.
> Are now antennas similar to Hertz dipole?
> Is the frequency doubled.
> S*
>
no, your concept is incorrect. the dipole is the whole antenna it is not limited to sources at the ends. even if you do set up a condition with 2 monopoles, like my 160m inverted V array with 2 verticals 1/2 wave apart, the interference does not change the frequency, it changes the intensity. As someone else pointed out, this is because EM waves are transverse waves and the fields add linearly in normal conditions, it takes a non-linear medium to cause mixing.

2921. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 11:09:57 UTC
From: Dave <noone@nowhere.com>
Message-ID: <9wdNl.147$wR5.132@nwrddc02.gnilink.net>
Source record: 15745

"Antonio Vernucci" <vernucci@tin.it> wrote in message
news:4a0532b5$0$47551$4fafbaef@reader1.news.tin.it...
>> Do you realise that the '-' in both expressions are quite different in
>> meaning, one is a unary negation operator, the other is the binary
>> subract operator.
>
> I realise, but Microsoft apparently does not:
>
> - for Excel: (-2^2 + 8) = 12
> - for Visual Basic: (-2^2 + 8) = 4
>
>>> They look pretty much the same
>> Not to a programmer!
>
> I would expect that some programmers may get confused, due to the
> inconsistency of software products of the same company.
>
> Tony I0JX
>
REAL programmers know the difference and add extra parenthesis just to be
sure the processor does what we want. for instance, i would NEVER use a
unary negate without adding parenthesis to be sure it was applied properly.
In most cases i would write that equation like: ((-1*A1)^2)+8, or even more
obvious in excel: power(-1*a1,2)+8

2922. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 12:19:33 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <qxeNl.32827$ZP4.19648@nlpi067.nbdc.sbc.com>
Source record: 15746

Tom Donaly wrote:
> 3. When are we going to see the Corum-Moore method in the textbooks?

"Transmission Lines and Networks", by Johnson
copyright 1950

"Fields and Waves in Modern Radio", Ramo and Whinnery,
Copyright 1944, 1953 - my fields and wave textbook
in ~1957 at Texas A&M.

The fundamentals of everything I have presented have
been in that textbook for 65 years and I'm sure it
was not the first textbook on the subject.

"Reflection and Transmission at a Discontinuity"

Equations for traveling waves vs standing waves

"Energy Theorems for Transmission Lines"

"The Idealized Helix and Other Slow-Wave Structures"

Separate forward and reflected Poynting vectors
whose ratio is rho^2

"Quarter-wave coating for Eliminating Reflections"

"Elimination of Reflections from Dielectric Slabs"

"Scattering and Transmission Coefficients"

"Directional Couplers"

Add "Antennas ..." by Kraus and Balanis
Add "Optics ..." by Hecht and Born and Wolf
Add "Traveling Wave Engineering", by Moore
Add "Reflections", by Walter Maxwell

One cannot blame one's ignorance on a lack of
textbooks.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2923. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 12:32:09 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <eJeNl.32829$ZP4.18317@nlpi067.nbdc.sbc.com>
Source record: 15747

google@karinya.net wrote:
> ... I don't think Cecil deserves or claims any recognition for it.

I've been accused of inventing theories while at the
same time being accused of quoting others too much.

All I have ever done is borrow some technical water
from the experts who came before me to use in wearing
away some of the mythical stones presented as technical
facts by the misinformed on this newsgroup and others.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2924. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 12:48:44 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <3SeNI.18176$D32.1673@flpi146.ffdc.sbc.com>
Source record: 15748

Jim Kelley wrote:
> I have no particular knowledge
> or opinion on Cecil's EZNEC files, other than his rather odd take
> standing wave current phase shift - whatever that is.

It's not my take, Jim, it is EZNEC's take. EZNEC
reports current on a standing-wave antenna that
closely matches the standing wave equations for
current whose phase cannot be used to measure
delay through a wire or through a loading coil.

Both w7el and w8ji used the current
on a standing wave antenna to measure phase shift
and predictably, there was negligible phase shift.
They erroneously attributed the lack of phase
shift with a lack of delay, i.e. they assumed the
proof - a well known logical fallacy.

There is no relationship between phase shift and
delay in the current on standing wave antennas
either through the wire or through a loading coil.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2925. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 15:18:08 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <m27b05942b1lpm1msci8p8p8bjkla4dqs0@4ax.com>
Source record: 15749

On Fri, 8 May 2009 18:36:08 +0200, "Antonio Vernucci"
<vernucci@tin.it> wrote:

>I think this message can be of interest for those using Excel for antenna
>calculations.
>
>Write in one cell: =(-A1^2 + 8) Note: the exponent of A1 is 2 (and not
>2+8=10) because Excel performs squaring before summing
>
>Write in another cell: =(8 - A1^2)
>
>They look pretty much the same
>
>But give A1 any non-zero value and see what happen.
>
>73
>
>Tony I0JX
>Rome, Italy

It's an INTENTIONAL Microsoft bug. See:
"Formula Returns Unexpected Positive Value"
<http://support.microsoft.com/kb/q132686/>

Although this article applies to Excel 97 and earlier versions, the
problem is still there in later versions of Excel.

The article indicates that:
"The order of evaluation of operators dictates that a minus
sign (-) used as a negation operator (such as -1) is evaluated
before all other operators. "
which in my opinion, is wrong. The MS order of operations is:

: Range
space Intersection
, Union
- Negation
% Percentage
^ Exponentiation
* or / Multiplication or Division
+ or - Addition or Subtraction
& Text Operator
= < > <= >= <> Comparison Operators

Note that the negation (negative sign) operator comes before any
arithmetic operators.

I haven't checked how Open Office 3 and others do it. My guess(tm) is
that they all treat the negation operator the same as subtraction
which would be (correctly) evaluated AFTER exponentiation,
multiplication, and division.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2926. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 15:30:51 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <7cba079d-7a6a-4cbc-9d36-310ea5596c43@h23g2000vbc.googlegroups.com>
Source record: 15750

On May 9, 7:48 am, Cecil Moore <nos...@w5dxp.com> wrote:
> Jim Kelley wrote:
> > I have no particular knowledge
> > or opinion on Cecil's EZNEC files, other than his rather odd take
> > standing wave current phase shift - whatever that is.
>
> It's not my take, Jim, it is EZNEC's take. EZNEC
> reports current on a standing-wave antenna that
> closely matches the standing wave equations for
> current whose phase cannot be used to measure
> delay through a wire or through a loading coil.
>
> Both w7el and w8ji used the current
> on a standing wave antenna to measure phase shift
> and predictably, there was negligible phase shift.
> They erroneously attributed the lack of phase
> shift with a lack of delay, i.e. they assumed the
> proof - a well known logical fallacy.
>
> There is no relationship between phase shift and
> delay in the current on standing wave antennas
> either through the wire or through a loading coil.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil
I believe Steve has vindicated you in your struggle
so you should feel good. I would avoid the tactics if I were you when
attempts are made to reserect this debate.Corum are acknowledged
experts with respect to coils and tho not as absolute as Maxwells
equations one should feel confident with respect to their works so I
feel you have finally made your point.
Well done
Art

2927. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 16:35:41 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <e204ec53-005f-4e4b-84ba-b3a1d62f7aff@u9g2000pre.googlegroups.com>
Source record: 15651

On May 9, 1:40 am, goo...@karinya.net wrote:
> Tom,
>
> I thought I'd quoted some numbers in the related "Dish reflector"
> thread - apologies if I did not. Here are some more:
>
> * I modelled a coil as a spiral in EZNEC (40T, diameter=6",
> length=12", #14 copper wire)
> * I added a 6ft "stinger" and found the frequency where the
> combination was resonant: 3.79 MHz
> * I checked the feedpoint impedance without the coil present: 0.46-
> j2439
> * That tells me the "lumped circuit equivalent" reactance of the coil
> at 3.79 MHz is +j2439 ohms
> * I found the frequency where the coil was resonant with no "stinger":
> 6.2 MHz
>
> Now I look at what ON4AA's "Corum method" inductance calculator tells
> me:
>
> * "Lumped circuit equivalent" reactance at 3.79 MHz: +j2449
> * Self-resonant frequency: 6.3 MHz
>
> Unless I'm missing an option, if I want to predict the RF
> characteristics of a "bugcatcher" it seems I have 3 choices:
>
> * Use Wheeler's formula
> * Build a helical model in EZNEC
> * Use the Corum method
>
> Wheeler's formula is inappropriate at frequencies close to a coil's
> SRF.
>
> EZNEC and the Corum method give very close results. The Corum formulas
> are not difficult to use; even if they were, there is an on-line
> calculator which removes the need for any maths. So it seems to me the
> Corum formulas would be the more convenient tool to use, at least for
> a "first look".
>
> 73,
> Steve G3TXQ
>
> On May 9, 7:06 am, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
>

>
>
> > You know, you haven't shown that the Corum model accurately measures
> > the bugcatcher coil. You have stated - and I have no reason to
> > disbelieve you - that the Corum model agrees with EZNEC. If that's the
> > case, it's just as easy to use EZNEC, right or wrong. MoM is a method of
> > obtaining numerical solutions to integral equations. The only reason to
> > do that is if symbolic solutions are either too difficult or impossible
> > to puzzle out of those same integral equations. In other words, some
> > very deep thinkers decided that MoM would give results superior to
> > algebraic approximations and hand waving, so they applied it to antenna
> > analysis. I don't think it's perfect. It's certainly useful. If you
> > think Corum is good enough for your purposes, though, go for it.
>
>

Steve, this is fine for a base loading coil, but I'd suggest you try your experiment with a loading coil well up the antenna, where the coil is significantly larger diameter than the straight conductor in which it's placed. The same size coil you described (though presumably a different number of turns), placed at least half way up something like a 15 or 20 foot long thin wire, should illustrate the point. Is the EZNEC model then in such good agreement with placing a reactive load at that point in the antenna, where the reactance is from ON4AA's online calculator?

If I trusted NEC to handle large steps in conductor diameter accurately, I'd suggest putting a segment in the antenna description to represent the length and diameter of the coil, with the calculated reactance placed as a load in that segment. As I understand it, though, NEC has trouble with large diameter steps.

Cheers,
Tom

2928. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 17:05:24 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <nddb05ph2ga3lep7ifnib0qn0ph7sajm36@4ax.com>
Source record: 15652

On Sat, 09 May 2009 16:48:19 +0000, Jim Higgins
<invalid@invalid.invalid> wrote:

>The proper precedence of mathematical operations is "PEMDAS," meaning
>Parenthesis, Exponentiation, Mult/Div, Add/Sub.

Yep. The MS precidence is:
<http://support.microsoft.com/kb/25189/EN-US/>

: Range
space Intersection
, Union
- Negation
% Percentage
^ Exponentiation
* or / Multiplication or Division
+ or - Addition or Subtraction
& Text Operator
= < > <= >= <> Comparison Operators

Note that the negation (negative sign) operator comes before any
arithmetic operators. The problem comes from Excel inventing some
kind of distinction between negation (negative number) and
substraction. For arithmetic, there is none. For C programmers,
there is a difference (in the way the data is stored). More on the
subject:
<http://mathforum.org/library/drmath/view/69058.html>

>That minus in front of the A1 is a unary negation, which is a
>multiplication by minus 1, so it should be performed AFTER the
>exponentiation, i.e; -A1^2 = -(A1^2)
>
>Excel performs it before the exponentiation, i.e.; -A1^2 = (-A1)^2
>
>The Excel answer is incorrect.

Yep. However, MS is not about to create problems by fixing the
problem. It would be a bad thing to have existing spreadsheets,
suddenly give different results when run on updated and fixed
versions of Excel. Compatibility with old bugs is one reason that
bugs tend to be perpetuated. Old bugs and sleeping dogs should be
left alone.

>73 de Jim, KB3PU

--
Jeff Liebermann jeffl@cruzio.com

150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2929. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 18:08:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <AEjNl.29454$Ws1.27571@nlpi064.nbdc.sbc.com>
Source record: 15653

K7ITM wrote:
> Steve, this is fine for a base loading coil, but I'd suggest you try
> your experiment with a loading coil well up the antenna, where the
> coil is significantly larger diameter than the straight conductor in
> which it's placed. The same size coil you described (though
> presumably a different number of turns), placed at least half way up
> something like a 15 or 20 foot long thin wire, should illustrate the
> point. Is the EZNEC model then in such good agreement with placing a
> reactive load at that point in the antenna, where the reactance is
> from ON4AA's online calculator?

The key to understanding this question and its logical
answer lies in the phase shift that occurs at impedance
discontinuities.

For a base-loading coil, there is only one impedance
discontinuity in the system, a hi-Z0 coil to a low-Z0
stinger. That single discontinuity provides a positive
phase shift at the '+' junction of the coil and stinger.

```
coil stinger
FP//////////+-------------------
```

When a straight shaft section is installed under the
coil, it introduces one additional impedance discontinuity
at 'x' in addition to the '+' top of coil to stinger
discontinuity.

```
base coil stinger
FP-------x/////////////+---------
```

Because the impedance discontinuity between the base
section is a low-Z0 to hi-Z0 transition, the phase shift
is negative, i.e. the antenna *loses electrical degrees*
at that junction.

Therefore, more turns must be added to the inductor
to supply the number of negative degrees lost at the
base section to coil impedance discontinuity.

This might best be illustrated with pieces of transmission
line. Please reference my web page at:

http://www.w5dxp.com/shrtstub.htm

The following concepts apply to the above antennas but
may be easier to understand using transmission lines.

Here is a dual-Z0 stub that is physically 44.4 degrees
long but is 90 degrees (1/4WL) long electrically, i.e.
it is functionally a 1/4WL open-circuit stub.

---22.2 deg 300 ohm line---+---22.2 deg 50 ohm line---

The Z0=300 ohm to Z0=50 ohm transition provides for
+45.6 degrees of phase shift. This is akin to the base-
loaded antenna above.

Here is a dual-Z0 stub with 11.1 degrees (half) of
the 50 ohm line moved to the left. (The words are
abbreviated because of space on the line.)

--11.1 deg 50--+--22.2 deg 300--+--11.1 deg 50--

Who can tell me how long electrically is this stub
using the identical feedlines from the above example?

This reconfigured stub with half of the 50 ohm feedline
moved to the bottom is now electrically only ~80.6 degrees
long. What has happened? The new impedance discontinuity
from the base section at the bottom of the coil has cost
us electrical degrees by providing a *negative phase shift*.

How do we solve the problem? Add some length (degrees) to
the Z0=300 ohm section. If we make the 300 ohm section
38.5 degrees long, the stub will be electrically 90 degrees
long once again.

This is conceptually the same problem we encounter when
we move the loading coil from the base location to the
center location. When we move the coil up the shaft, we
introduce a negative phase shift at the bottom of the
coil. Therefore, we must increase the number of turns
to make the loading coil electrically longer.

Incidentally, w8ji knows about the coil to stinger
positive phase shift and describes it on his web page.
He apparently doesn't know about the opposite negative
phase shift at the bottom of the coil where the shaft
attaches.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2930. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 18:26:10 UTC
From: richardharrison@webtv.net
Message-ID: <5597-4A05CAC2-2163@storefull-3171.bay.webtv.net>
Source record: 15655

Cecil Moore wrote:
"One cannot blame one`s ignorance on a lack of textbooks."

True. The most reliable in my opinion is Terman`s 1955 opus "Electronic and Radio Engineering".

Terman agrees with Cecil.

On page 854 Terman writes:
"The laws governing such radiation are obtained by using Maxwell`s equations to express the fields associated with the wire; when this is done there is found to be a component, termed the radiation field, having a strength that varies inversely with distance."

Terman then gives the formula for the electric field strength in terms of distance from the elementary doublets in the wire that make up the antennna to a distant observing point P, and angle of the direction of point P with respect to a plane perpendicular to the axis of the elementary doublet. The strength of the radiated field is distributed in space in accordance with the doughnut pattern for a thin wire which is short compared with wavelength and has a figure-of-8 cross section. Illustrations are provided on page 865. On page 866 Terman illustrates current distribution on an antenna open circuited at both ends and made up of elementary doublets. On page 867 Terman says:
"A wire antenna is a circuit with distributed constants; hence the current distribution in a wire antenna that results from the application of a localized voltage follows the principles discussed in Chap. 4 (Transmission Lines), and depends upon the antenna length, measured in wavelengths; the terminations at the ends of the antenna wire; and the losses in the system. The current distribution is also affected by the ratio of the wire length to diameter in situations where the wire is unusually thick. Under most circumstances the losses are sufficiently low and the ratio of wire length to diameter sufficiently great so that to a first approximation very closely the current distribution can be taken as that for a line with zero losses; it then has the characteristics discussed in 4-5.

Best regards, Richard Harrison. KB5WZI

2931. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 18:34:24 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu49h0rgs1@node1.news.atman.pl>
Source record: 15656

<wimabctel@tetech.nl> wrote
news:c2a4968f-da6c-49ee-9887-9c3a53d33ceb@r3g2000vbp.googlegroups.com...
On 9 mayo, 10:02, Szczepan Biaďż˝ďż˝ek <sz.bia...@wp.pl> wrote:
> Uďż˝ďż˝ytkownik <wimabc...@tetech.nl> napisaďż˝ďż˝ w
> wiadomoďż˝ďż˝cinews:e1617758-86bf-4564-bcc8-8784d70cd9d5@s21g2000vbb.googlegroups.com...
> On 8 mayo, 10:35, Szczepan Biaďż˝ďż˝ek <sz.bia...@wp.pl> wrote:
>
> >> I start reading about acoustic analogy.
> > > I found that: "Over long distances, the atmosphere can cause the
> > > polarization of a radio wave to fluctuate, so the distinction between
> > > horizontal and vertical becomes less significant."
> > > From:http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html
>
> >> The my question are:
> > > 1. What means "long distances" in km (or miles),
> > > 2. What is the best orientation of the antenna for long distances.
> >> S*
> >Hello,
> >Under normal circumstances, polarization change in line-off-site
>
> conditions (think of max 40 mile) is not that much, so antenna
> polarization does matter (unless you use at least circular
> polarization on one side).
>
> >In a propagation path that is dominated by multi-path effects
>
> (reflection at buildings, hills, foliage, etc), you get almost random
> polarization and then the polarization is not that important. Your
> cell phone and indoor WIFI are examples.
>
> >Extreme weather conditions can also lead to polarization changes or a
>
> random polarization component (ducting superrefraction).
>
> >For sea water up to VHF, reflection depends on polarization. For
>
> ground-ground links (for example ship shore) mostly vertical
> polarization is used (as the sea water helps in this case). So if you
> want to receive these communication, you use a vertical polarized
> antenna.
>
> >The largest change in polarization you will get when the waves have to
>
> travel through the ionosphere. At HF (ground-ground link via

> ionosphere), the polarization vector rotates many times. This is due
> to Faraday rotation. Also ground-satellite links suffer from this
> effect. The higher the frequency, the less the change in polarization.
> For example at 100 MHz you should think about 30 full rotations (that
> is more then 10k degrees), while at 10 GHz the change in polarization
> will be about 1 degree. Circular polarization may help to mitigate the
> influence of Faraday rotation.
>
> >At HF sky wave (100....>1000 mile via ionosphere) polarization of the
>
> antenna matters. This is not because of the polarization change of the
> waves due to Faraday rotation, but because of the reflection
> characteristics of mother earth. In HF antennas, reflection on mother
> earth is used (in combination with antenna height) to get the required
> elevation radiation pattern of the antenna. Reflection on earth
> depends on polarization.
>
> >Hopefully this helps you a bit.
>
>> You do not use the words "transversal" and "EM". The only evidence of
> polarization is antenna directional sensitivity.

>You talked about radiowaves, that are EM waves. In free space, only
progapation mode is transversal (that means both E- and H-field are
perpendicular to the direction of energy propagation. With regards to
audio, in gas, only lossless propagation mode is longitudinal
(molecule movement and pressure vectors are parallel to the direction
of energy propagation) .

EM is the hydraulic analogy (by Heaviside). It is a "piece to teach" a field
method.
In that time the electricity was incompressble and massles. Now the
electrons are compressible and have mass.
We need a new analogy. It can be call the Gas analogy or Acoustic analogy.
In www.tetech.nl is wrote that are many analogies for EM.

>> In the acoustic analogy a radio waves are normal spherical electric waves
> emitted from the two sources (ends of the dipole).
> So the sources are polarised, not the waves. Waves interfere. Do you
> agree?

>Not agree, the waves are also polarized, that can be physically
measured. Polarization is determined by the E-field vector.

A dipole has the E-field (in electrostatics). The equations are by Gauss.
The same equations we can use for the Hertz dipole. The E-field will be
alternate.
At long distances the frequency in receiving antennas will be twice more.

>> See my topic "frequency doubling" . I am only a science hobyist.
>
>> The second question was: " What is the best orientation of the antenna

>> for
> long distances?
> For old radio antennas. Very long horizontal wire.

>On UHF (for example 2450 MHz), long distance can be 20 km, but on HF 500 km is not called long distance. So the meaning of long distance depends on the frequency band.

>You should distinguish between the actual polarization of the antenna and the physical appearance. depending on how you feed it, a very long horizontal wire can be sensitive to vertical or horizontal polarized waves.

>Though the equations for acoustical waves look similar to those of EM waves, the orientation of the field components is completely different. When you require a more specific answer, you should make your question more specific. I tried to give you a general answer for the various forms of radio wave propagation.

Now is XXI century. EM is a beautiful theory from XIX century. In Tetech products no incompressible massless fluid.
So the most specific and important question is:
How is frequency in receiving antenna. Is it doubled?

Best regards, and sorry for my style
S*

2932. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 19:12:21 UTC
From: Dave <noone@nowhere.com>
Message-ID: <pAkNI.208$5F2.105@nwrddc01.gnilink.net>
Source record: 15657

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gu49h0rgs1@node1.news.atman.pl...
> So the most specific and important question is:
> How is frequency in receiving antenna. Is it doubled?
>
no. i transmit a given frequency and that is what is received. easily
measured even with simple instruments.

2933. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 19:15:19 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <adadndBNPpBrWpjXnZ2dnUVZ_sednZ2d@earthlink.com>
Source record: 15654

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:nddb05ph2ga3lep7ifnib0qn0ph7sajm36@4ax.com...
> On Sat, 09 May 2009 16:48:19 +0000, Jim Higgins
> <invalid@invalid.invalid> wrote:
>
> Yep. However, MS is not about to create problems by fixing the
> problem. It would be a bad thing to have existing spreadsheets,
> suddenly give different results when run on updated and fixed
> versions of Excel. Compatibility with old bugs is one reason that
> bugs tend to be perpetuated. Old bugs and sleeping dogs should be
> left alone.
>
>>73 de Jim, KB3PU
>

I sure am glad they finally fixed the simple calculator that Windows came with. It had a major bug in it that if I remember correctly if you substracted 3.1 from 3.11 you got zero. There were other numbers like that also.

I think Intel had to recall a bunch of chips because of an error in the math coprocessor part at one time.

Microsoft products are so full of 'problems' that if they ever put out an error free product it would seem to be a mistake.

2934. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 19:28:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ePkNl.26303$c45.3916@nlpi065.nbdc.sbc.com>
Source record: 15658

Richard Harrison wrote:
> "A wire antenna is a circuit with distributed constants; hence the
> current distribution in a wire antenna that results from the application
> of a localized voltage follows the principles discussed in Chap. 4
> (Transmission Lines), and depends upon the antenna length, measured in
> wavelengths; the terminations at the ends of the antenna wire; and the
> losses in the system."

In other words, an antenna acts a lot like a lossy
transmission line where the loss from the system
is radiation.

Here's a transmission line example using resistance
wire in a transmission line to emulate the losses
normally due to radiation in an antenna. Note that
the feedpoint impedance is around 35 ohms.

http://www.w5dxp.com/stub_dip.EZ
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2935. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 20:41:52 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C07442246EDAnonenowhere@61.9.191.5>
Source record: 15659

Jeff Liebermann <jeffl@cruzio.com> wrote in
news:m27b05942b1lpm1msci8p8p8bjkla4dqs0@4ax.com:

...
> It's an INTENTIONAL Microsoft bug. See:

It is certainly popular to blame Microsoft with lots of things, whether they were responsible or not matters little.

Keep in mind that Microsoft did not 'design' the algebraic operator hierarchy for Excel, Excel was released with a claim of 100% cell formula compatibility with the then leading spreadsheet Lotus 123. (Microsoft's compatibility was so good, it was subject of a famous court case.)

It was much later that Microsoft conceived VBA and added it to their apps. IIRC, Visual Basic for Applications inherits its algebraic operator hierarchy from the BASIC language which was conceived around 1964 and enriched progressively.

The "intentional Microsoft bug" perspective looks like just prejudice.

Owen

2936. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 20:48:22 UTC
From: wimabctel@tetech.nl
Message-ID: <2d223e1f-4f8d-43b6-854d-f77febc7b633@z7g2000vbh.googlegroups.com>
Source record: 15660

On 9 mayo, 20:34, Szczepan Białek <sz.bia...@wp.pl> wrote:
> <wimabc...@tetech.nl>
wrotenews:c2a4968f-da6c-49ee-9887-9c3a53d33ceb@r3g2000vbp.googlegroups.com...
> On 9 mayo, 10:02, Szczepan Bia©©ek <sz.bia...@wp.pl> wrote:
>
>
>
> > U¢¯ytkownik <wimabc...@tetech.nl> napisa©ø w
> > wiadomo¢Òcinews:e1617758-86bf-4564-bcc8-8784d70cd9d5@s21g2000vbb.googlegroups.com...
> > On 8 mayo, 10:35, Szczepan Bia©øek <sz.bia...@wp.pl> wrote:
>
> > > >> I start reading about acoustic analogy.
> > > > I found that: "Over long distances, the atmosphere can cause the
> > > > polarization of a radio wave to fluctuate, so the distinction between
> > > > horizontal and vertical becomes less significant."
> > > > From:http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html
>
> > > >> The my question are:
> > > > 1. What means "long distances" in km (or miles),
> > > > 2. What is the best orientation of the antenna for long distances.
> > > >> S*
> > > >Hello,
> > > >Under normal circumstances, polarization change in line-off-site
>
> > conditions (think of max 40 mile) is not that much, so antenna
> > polarization does matter (unless you use at least circular
> > polarization on one side).
>
> > > >In a propagation path that is dominated by multi-path effects
>
> > (reflection at buildings, hills, foliage, etc), you get almost random
> > polarization and then the polarization is not that important. Your
> > cell phone and indoor WIFI are examples.
>
> > > >Extreme weather conditions can also lead to polarization changes or a
>
> > random polarization component (ducting superrefraction).
>
> > > >For sea water up to VHF, reflection depends on polarization. For
>
> > ground-ground links (for example ship shore) mostly vertical
> > polarization is used (as the sea water helps in this case). So if you
> > want to receive these communication, you use a vertical polarized
> > antenna.

>
> > >The largest change in polarization you will get when the waves have to
>
> > travel through the ionosphere. At HF (ground-ground link via
> > ionosphere), the polarization vector rotates many times. This is due
> > to Faraday rotation. Also ground-satellite links suffer from this
> > effect. The higher the frequency, the less the change in polarization.
> > For example at 100 MHz you should think about 30 full rotations (that
> > is more then 10k degrees), while at 10 GHz the change in polarization
> > will be about 1 degree. Circular polarization may help to mitigate the
> > influence of Faraday rotation.
>
> > >At HF sky wave (100....>1000 mile via ionosphere) polarization of the
>
> > antenna matters. This is not because of the polarization change of the
> > waves due to Faraday rotation, but because of the reflection
> > characteristics of mother earth. In HF antennas, reflection on mother
> > earth is used (in combination with antenna height) to get the required
> > elevation radiation pattern of the antenna. Reflection on earth
> > depends on polarization.
>
> > >Hopefully this helps you a bit.
>
> >> You do not use the words "transversal" and "EM". The only evidence of
> > polarization is antenna directional sensitivity.
> >You talked about radiowaves, that are EM waves. In free space, only
>
> progapation mode is transversal (that means both E- and H-field are
> perpendicular to the direction of energy propagation. With regards to
> audio, in gas, only lossless propagation mode is longitudinal
> (molecule movement and pressure vectors are parallel to the direction
> of energy propagation) .
>
> EM is the hydraulic analogy (by Heaviside). It is a "piece to teach" a field
> method.
> In that time the electricity was incompressble and massles. Now the
> electrons are compressible and have mass.
> We need a new analogy. It can be call the Gas analogy or Acoustic analogy.
> Inwww.tetech.nlis wrote that are many analogies for EM.
>
> >> In the acoustic analogy a radio waves are normal spherical electric waves
> > emitted from the two sources (ends of the dipole).
> > So the sources are polarised, not the waves. Waves interfere. Do you
> > agree?
> >Not agree, the waves are also polarized, that can be physically
>
> measured. Polarization is determined by the E-field vector.
>
> A dipole has the E-field (in electrostatics). The equations are by Gauss.
> The same equations we can use for the Hertz dipole. The E-field will be

> alternate.
> At long distances the frequency in receiving antennas will be twice more.
>
> >> See my topic "frequency doubling" . I am only a science hobyist.
>
> >> The second question was: " What is the best orientation of the antenna
> >> for
> > long distances?
> > For old radio antennas. Very long horizontal wire.
> >On UHF (for example 2450 MHz), long distance can be 20 km, but on HF
>
> 500 km is not called long distance. So the meaning of long distance
> depends on the frequency band.
>
> >You should distinguish between the actual polarization of the antenna
>
> and the physical appearance. depending on how you feed it, a very long
> horizontal wire can be sensitive to vertical or horizontal polarized
> waves.
>
> >Though the equations for acoustical waves look similar to those of EM
>
> waves, the orientation of the field components is completely
> different. When you require a more specific answer, you should make
> your question more specific. I tried to give you a general answer for
> the various forms of radio wave propagation.
>
> Now is XXI century. EM is a beautiful theory from XIX century. In Tetech
> products no incompressible massless fluid.
> So the most specific and important question is:
> How is frequency in receiving antenna. Is it doubled?
>
> Best regards, and sorry for my style
> S*

Hello Szczepan,

You are right, charge is compressible. The charge that is required to
charge (for example) a sphere seems to break the coninuity equition as
is used for incompressible fluid in hydraulics.

Continuity in electromagnetism is regained by introducing the D-field
(dielectric displacement). The D-field is responsible for the
capacitive current in case of varying E-field.

Regarding frequency doubling. We can be lucky. Antennas and
propagation behaves in virtually all cases linearly. From linear
systems you might know that input and output frequency are the same,
so no doubling in frequency.

In case of non-linear parts in a system (for example a corroded
connector in an antenna cable that is used by two or more

transmitters, that may behave as a semiconductor), you might get so called mixer products (sum frequencies, harmonics, difference frequencies, etc).

If you would like to know more about EM-fields related to antennas and electronics, just start with classical EM theory. This is a solid tool, existing over 100 years and is used by many people with succes to predict behaviour of circuits and antennas. If this will change of today, I will close my business activities next monday.

Best regards,

Wim
PA3DJS
www.tetech.nl
don't forget to remove the first three letters of the alphabet in case of PM.

2937. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 20:56:31 UTC
From: google@karinya.net
Message-ID: <0006fa3a-90e4-4fb7-a37a-f5906cc96586@l5g2000vbc.googlegroups.com>
Source record: 15661

Tom,

OK, I tried what you suggested. I put my loading coil midway up a 20ft vertical wire in the EZNEC model. I reduced the number of turns to lift the resonant frequency to 5.6MHz. EZNEC predicted that the magnitude of the current at the top of the coil would be 77% of the magnitude at the bottom.

Then I removed the coil in the model, replaced it with a straight wire containing an EZNEC lumped load, and adjusted that load for antenna resonance at 5.6MHz again. I needed +j1630.

Given the dimensions of the coil, the Corum calculator predicted a lumped circuit equivalent reactance of +j1573, and it predicted a current fall-off across the coil of 78%.

73,
Steve G3TXQ

On May 9, 5:35 pm, K7ITM <k7...@msn.com> wrote:
>
> Steve, this is fine for a base loading coil, but I'd suggest you try
> your experiment with a loading coil well up the antenna, where the
> coil is significantly larger diameter than the straight conductor in
> which it's placed. The same size coil you described (though
> presumably a different number of turns), placed at least half way up
> something like a 15 or 20 foot long thin wire, should illustrate the
> point. Is the EZNEC model then in such good agreement with placing a
> reactive load at that point in the antenna, where the reactance is
> from ON4AA's online calculator?
>

2938. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 21:06:56 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <1gmNl.29605$YU2.14402@nlpi066.nbdc.sbc.com>
Source record: 15662

google@karinya.net wrote:
> Tom,
>
> I thought I'd quoted some numbers in the related "Dish reflector"
> thread - apologies if I did not. Here are some more:
>
> * I modelled a coil as a spiral in EZNEC (40T, diameter=6",
> length=12", #14 copper wire)
> * I added a 6ft "stinger" and found the frequency where the
> combination was resonant: 3.79 MHz
> * I checked the feedpoint impedance without the coil present: 0.46-
> j2439
> * That tells me the "lumped circuit equivalent" reactance of the coil
> at 3.79 MHz is +j2439 ohms
> * I found the frequency where the coil was resonant with no "stinger":
> 6.2 MHz
>
> Now I look at what ON4AA's "Corum method" inductance calculator tells
> me:
>
> * "Lumped circuit equivalent" reactance at 3.79 MHz: +j2449
> * Self-resonant frequency: 6.3 MHz
>
> Unless I'm missing an option, if I want to predict the RF
> characteristics of a "bugcatcher" it seems I have 3 choices:
>
> * Use Wheeler's formula
> * Build a helical model in EZNEC
> * Use the Corum method
>
> Wheeler's formula is inappropriate at frequencies close to a coil's
> SRF.
>
> EZNEC and the Corum method give very close results. The Corum formulas
> are not difficult to use; even if they were, there is an on-line
> calculator which removes the need for any maths. So it seems to me the
> Corum formulas would be the more convenient tool to use, at least for
> a "first look".
>
> 73,
> Steve G3TXQ
>
>

Did you make such a coil and measure its self-resonant frequency? The reason I ask is that I put the dimensions of an old coil I had (D=155mm,length=140mm,wire diameter=1.3mm,N=27 turns) into ON4AA's calculator and got a self resonant number of 7.4137 Mhz. When I measured it, though, it was 8.93 Mhz. Where did I go wrong? Maybe I entered the numbers incorrectly.
73,
Tom Donaly, KA6RUH

2939. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 21:20:26 UTC
From: google@karinya.net
Message-ID: <acc2fae4-6109-45ce-bfa0-d8e03b40210d@e20g2000vbc.googlegroups.com>
Source record: 15663

Tom,

I just modelled that coil in EZNEC and it was self-resonant at 7.5MHz
- very close to the Corum model prediction of 7.4137MHz.

Interesting that both EZNEC and the Corum are wrong and by the same
amount!

73,
Steve G3TXQ

On May 9, 10:06 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
>
> Did you make such a coil and measure its self-resonant frequency? The
> reason I ask is that I put the dimensions of an old coil I had
> (D=155mm,length=140mm,wire diameter=1.3mm,N=27 turns) into ON4AA's
> calculator and got a self resonant number of 7.4137 Mhz. When I measured
> it, though, it was 8.93 Mhz. Where did I go wrong? Maybe I entered the
> numbers incorrectly.
> 73,
> Tom Donaly, KA6RUH

2940. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 21:45:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <iQmNl.16471$%54.862@nlpi070.nbdc.sbc.com>
Source record: 15664

Tom Donaly wrote:
> I put the dimensions ... into ON4AA's
> calculator and got a self resonant number of 7.4137 Mhz. When I measured
> it, though, it was 8.93 Mhz. Where did I go wrong?

The self resonant frequency of a coil varies wildly
with the ground provided. What ground did you provide?
Perfect? Average? None?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2941. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 21:49:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xTmNl.15429$jZ1.2138@flpi144.ffdc.sbc.com>
Source record: 15665

google@karinya.net wrote:
> Tom,
>
> I just modelled that coil in EZNEC and it was self-resonant at 7.5MHz
> - very close to the Corum model prediction of 7.4137MHz.
>
> Interesting that both EZNEC and the Corum are wrong and by the same
> amount!

Did you guys agree on the same ground plane? The self resonant
frequency of my 75m Texas Bugcatcher coil is very different
on my insulated wooden work-bench vs two inches above my GMC
pickup.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2942. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-09 21:57:50 UTC
From: google@karinya.net
Message-ID: <ade035f8-67ae-4ffc-aea3-e3bbf1b99c16@r3g2000vbp.googlegroups.com>
Source record: 15666

Cecil,

I tried mine above Perfect, Mininec Average, Mininec Salt Water. Self
resonant frequency was the same in each case.

Steve G3TXQ

On May 9, 10:49 pm, Cecil Moore <nos...@w5dxp.com> wrote:
>
> Did you guys agree on the same ground plane? The self resonant
> frequency of my 75m Texas Bugcatcher coil is very different
> on my insulated wooden work-bench vs two inches above my GMC
> pickup.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2943. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 00:06:41 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <nUoNl.28974$yr3.25984@nlpi068.nbdc.sbc.com>
Source record: 15667

Cecil Moore wrote:
> google@karinya.net wrote:
>> Tom,
>>
>> I just modelled that coil in EZNEC and it was self-resonant at 7.5MHz
>> - very close to the Corum model prediction of 7.4137MHz.
>>
>> Interesting that both EZNEC and the Corum are wrong and by the same
>> amount!
>
> Did you guys agree on the same ground plane? The self resonant
> frequency of my 75m Texas Bugcatcher coil is very different
> on my insulated wooden work-bench vs two inches above my GMC
> pickup.

I followed Reg's advice and hung mine from the ceiling with a thin
thread.
73,
Tom Donaly, KA6RUH

2944. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 00:10:00 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <92pNI.16368$pr6.2026@flpi149.ffdc.sbc.com>
Source record: 15668

google@karinya.net wrote:
> Tom,
>
> I just modelled that coil in EZNEC and it was self-resonant at 7.5MHz
> - very close to the Corum model prediction of 7.4137MHz.
>
> Interesting that both EZNEC and the Corum are wrong and by the same
> amount!
>
> 73,
> Steve G3TXQ
>
>
>
> On May 9, 10:06 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
>> Did you make such a coil and measure its self-resonant frequency? The
>> reason I ask is that I put the dimensions of an old coil I had
>> (D=155mm,length=140mm,wire diameter=1.3mm,N=27 turns) into ON4AA's
>> calculator and got a self resonant number of 7.4137 Mhz. When I measured
>> it, though, it was 8.93 Mhz. Where did I go wrong? Maybe I entered the
>> numbers incorrectly.
>> 73,
>> Tom Donaly, KA6RUH
>

I think it's interesting, too. Maybe someone better acquainted with
testing procedures than I am can resolve the difference.
73,
Tom Donaly, KA6RUH

2945. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 00:13:00 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <N4pNl.16369$pr6.9616@flpi149.ffdc.sbc.com>
Source record: 15669

Cecil Moore wrote:
> Tom Donaly wrote:
>> I put the dimensions ... into ON4AA's
>> calculator and got a self resonant number of 7.4137 Mhz. When I measured
>> it, though, it was 8.93 Mhz. Where did I go wrong?
>
> The self resonant frequency of a coil varies wildly
> with the ground provided. What ground did you provide?
> Perfect? Average? None?

If that's true, the Corum brothers should have included that in
their formulas.
73,
Tom Donaly, KA6RUH

2946. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 02:20:17 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <khdc055o7nk5bhfih0k6n6h7pmkod3mbs8@4ax.com>
Source record: 15670

On Sat, 09 May 2009 20:41:52 GMT, Owen Duffy <none@no.where> wrote:

>Jeff Liebermann <jeffl@cruzio.com> wrote in
>news:m27b05942b1lpm1msci8p8p8bjkla4dqs0@4ax.com:
>
>...
>> It's an INTENTIONAL Microsoft bug. See:

>It is certainly popular to blame Microsoft with lots of things, whether
>they were responsible or not matters little.

Sorry. Bad choice of wording. From my perspective, a bug is
something that works in a manner that would be considered unexpected
or fails some form of standards compliance. The order and precedence
of operators was well established and includes no distinction between
negation and subtraction. I cannot imagine an example where a
distinction would be necessary (although I am willing to be
enlightened). Whether MS can be blamed for creating the distinction
is subject to some debate, however I doubt that MS can be praised for
creating it.

>Keep in mind that Microsoft did not 'design' the algebraic operator
>hierarchy for Excel, Excel was released with a claim of 100% cell formula
>compatibility with the then leading spreadsheet Lotus 123. (Microsoft's
>compatibility was so good, it was subject of a famous court case.)

Chuckle. I once made good money cleaning up a mess of old Lotus 1-2-3
and Symphony spreadsheets so that they would run under Excel. This is
for Excel 2003:
<http://office.microsoft.com/en-us/excel/HP051986941033.aspx>
There are also comparisons between other version of Excel and Lotus
1-2-3, but I can't find them. Different versions seem to have
somewhat different differences, which makes me wonder if Excel has
"evolved" their standards.

Quoting:
"Lotus 1-2-3 evaluates the exponentiation operator (^) before
the negation operator (ï¿½); Excel evaluates negation first."
So it is written, so it must be. Web pages are never wrong.

>It was much later that Microsoft conceived VBA and added it to their apps.
>IIRC, Visual Basic for Applications inherits its algebraic operator
>hierarchy from the BASIC language which was conceived around 1964 and
>enriched progressively.

Yep. Even standards change with time. It's the de facto standard of
the moment.

>The "intentional Microsoft bug" perspective looks like just prejudice.

Nope. I like Microsoft. If MS actually produced a bug free,
reliable, and fully functional product, I would be out of business. As
it stands, I expect to see considerable business from MS customers, as
new versions seem to introduce more features and functions, than fixes
to old bugs. After all, features and functions sell upgrades, but bug
fixes do not. 2.999999 cheers for Microsoft.

Incidentally, the company motto is "If this stuff worked, you wouldn't
need me". None of my customers have ever disagreed.

>Owen

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

2947. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 02:32:57 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <5jec05d0k530kudaiqcpk1ngjc84q8kf95@4ax.com>
Source record: 15671

On Sat, 9 May 2009 14:15:19 -0500, "Ralph Mowery"
<rmowery28146@earthlink.net> wrote:

>I think Intel had to recall a bunch of chips because of an error in the math
>coprocessor part at one time.

Close. See:
<http://en.wikipedia.org/wiki/Pentium_FDIV_bug>
for the details. Never mind that the fixed chips arrived after the
release of the next generation of Pentium processors, making
replacements for the older and slower chips a waste of effort. I had
several servers running the buggy Pentium 60 and 66Mhz chips.
Incidentally, they ran unusually hot and required extra cooling. I
applied to Intel for 3 replacement chips. By the time they arrived,
the server motherboards had been replaced with something better and
faster, so the new chips just sat around.

>Microsoft products are so full of 'problems' that if they ever put out an
>error free product it would seem to be a mistake.

I beg to differ. Microsoft bashing seems to be the national sport in
computers. Yet, they're the most successful computah company in
history. In addition, they did it without any ties to proprietary
hardware. They must be doing something right.

In my never humble opinion, 99% or more of what MS releases is done
correctly and works well. The 1% that doesn't is what we're all
complaining about. Because MS has such a huge number of products and
technologies, it's fairly easy to find bugs and problems. However, if
you compare the MS bug lists with those from other companies, the
ratio of bugs to product complexity is very favorable for MS products.
I have had to deal with OS's and apps from smaller companies. Methinks
they're far worse than MS. Also, there may be plenty to complain
about, but most products are sufficiently functional to be usable for
the intended purpose. What bothers me about MS is not the quantity of
bugs, it's their tendency to add features and functions instead of
fixing bugs. This tends to make the product grow into a bloated
monstrosity of useless features, with far too many semi-permanent
bugs.

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

2948. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 02:40:02 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <78rNl.10108$im1.1760@nlpi061.nbdc.sbc.com>
Source record: 15672

Tom Donaly wrote:
> I followed Reg's advice and hung mine from the ceiling with a thin
> thread.

That would certainly make it act differently
than over a good ground plane.

Where was your ground/counterpoise? Which self-
resonant frequency did you see? 1/4WL? 1/2WL?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2949. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 02:44:43 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <dnfc059pepjs2sqphj7plcb1olalqa6raf@4ax.com>
Source record: 15673

On Sat, 09 May 2009 19:32:57 -0700, Jeff Liebermann <jeffl@cruzio.com>
wrote:

><http://en.wikipedia.org/wiki/Pentium_FDIV_bug>

Also, the Foof bug:
<http://en.wikipedia.org/wiki/F00f>

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

2950. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 02:47:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <UlrNl.16374$pr6.10433@flpi149.ffdc.sbc.com>
Source record: 15674

Tom Donaly wrote:
> If that's true, the Corum brothers should have included that in
> their formulas.

Their formulas assume a near-perfect ground plane.
See Figure 2.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2951. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 02:49:53 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <RnrNl.16375$pr6.3888@flpi149.ffdc.sbc.com>
Source record: 15675

Tom Donaly wrote:
> Did you make such a coil and measure its self-resonant frequency? The
> reason I ask is that I put the dimensions of an old coil I had
> (D=155mm,length=140mm,wire diameter=1.3mm,N=27 turns) into ON4AA's
> calculator and got a self resonant number of 7.4137 Mhz. When I measured
> it, though, it was 8.93 Mhz. Where did I go wrong? Maybe I entered the
> numbers incorrectly.

Please describe your test setup. Where was ground?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2952. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 03:51:37 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <Oc2dnWRdAOdq3ZvXnZ2dnUVZ_tudnZ2d@earthlink.com>
Source record: 15676

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:5jec05d0k530kudaiqcpk1ngjc84q8kf95@4ax.com...
>
> I beg to differ. Microsoft bashing seems to be the national sport in
> computers. Yet, they're the most successful computah company in
> history. In addition, they did it without any ties to proprietary
> hardware. They must be doing something right.
>

Microsoft got so big the same way Walmart did. They put out a cheeper
product.

Digital Research had a much beter product when IBM produced the PC. I think
they wanted about $ 150 for it and MS wanted $ 50 for their product. They
basically put DRI out of business and also some other companies that had
their ideas incorporated in to the MS product line.

2953. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 08:25:46 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <scwNl.26319$c45.21649@nlpi065.nbdc.sbc.com>
Source record: 15677

Cecil Moore wrote:
> Tom Donaly wrote:
>> Did you make such a coil and measure its self-resonant frequency? The
>> reason I ask is that I put the dimensions of an old coil I had
>> (D=155mm,length=140mm,wire diameter=1.3mm,N=27 turns) into ON4AA's
>> calculator and got a self resonant number of 7.4137 Mhz. When I measured
>> it, though, it was 8.93 Mhz. Where did I go wrong? Maybe I entered the
>> numbers incorrectly.
>
> Please describe your test setup. Where was ground?

I'll tell you what, Cecil. If you'll test your coil, and
describe how you did it, I'll tell you what I did. Fair?
I know you're champing at the bit to claim my test setup was all
wrong and that I used standing wave current when I should have
been using traveling wave current, and all that, but you'll just
have to wait. I reported this in order to get you keyboard theorists
off your fundaments and start dealing with the real world. If you don't,
you'll forever be plagued by the nagging thought that I might be right.
Horrors!
73,
Tom Donaly, KA6RUH

(P.S. If you don't know how to test for a coil's self-resonant
frequency, you should go back to Texas A&M and ask for your money
back.)

2954. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 09:20:05 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu5tdb$28b$1@node1.news.atman.pl>
Source record: 15678

```
"Dave" <noone@nowhere.com>wrote
news:dqdNl.146$wR5.127@nwrddc02.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gu31q8$mfr$1@node1.news.atman.pl...
>>
>> "Brian Howie" <brian@nospam.demon.co.uk> wrote
>> news:y8SRT+CwCFBKFwPE@b-howie.demon.co.uk...
>>> In message <ACVMl.5102$b11.2764@nwrddc02.gnilink.net>, Dave
>>> <noone@nowhere.com> writes
>>>>
>>>>"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>>>>news:gu0j07$9hn$1@node1.news.atman.pl...
>>>>> It seems that at long distances should appear the phenomenon of
>>>>> frequency doubling.
>>>>> See: http://www.rp-photonics.com/frequency_doubling.html
>>>>>
>>>>> Is such?
>>>>> S*
>>>>not that has been reported anywhere i have seen. this is likely because
>>>>that at the low amplitudes of radio waves relative to the energies
>>>>needed to create non-linear effects the medium is close enough to linear
>>>>that any doubling effect is too small to see.
>>>
>>>
>>> You can get ionospheric mixing of radio waves. e.g Luxembourg Effect; so
>>> doubling is possible.
>>>
>>> I also once heard a mixing effect of the 10MHz Time signal MSF with the
>>> 60KHz time signal ,producing two sidebands at 10.060 and 9.030 MHz, but
>>> that could have been an effect at the transmitter site.
>>>
>>> Maybe WWV does the same - take a listen; it's not strong enough here.
>>
>> My knowledge on radio waves starts and ends on the description of the
>> Hertz experiment. So my questions apply to the half wave dipoles.
>> In the acoustic analogy the Hertz emitter (dipole with the two big balls
>> on its ends) works like the two monopoles halve wave apart (of course not
>> in phase). In a few meters from it the Hertz receiver (ring with the two
>> small balls) works only if parallel. When the receiver is parallel with
>> the emitter the spherical wave from the upper ball push the electron to
>> lower halve of the
>> receiwer and the small spark jump. The frequency is the same
>> In other orientations the electron in the ring are also moved but the
```

>> voltage is equal and no sparks.
>>
>> But at long distances on every piece of metal acts the two alternating
>> electric field from the two monopoles. The frequency must be doubled.
>> Are now antennas similar to Hertz dipole?
>> Is the frequency doubled.
>> S*
>>
> no, your concept is incorrect. the dipole is the whole antenna it is not
> limited to sources at the ends. even if you do set up a condition with 2
> monopoles, like my 160m inverted V array with 2 verticals 1/2 wave apart,
> the interference does not change the frequency,

Does not change in medium. But I am talking about the electrons in metal
kicked by impulses from the TWO sources in opposite phase. The electron do
not know which kick them.

it changes the intensity.
> As someone else pointed out, this is because EM waves are transverse waves
> and the fields add linearly in normal conditions, it takes a non-linear
> medium to cause mixing.

In EM a dipole radiate the ONE EM spherical wave. It is a math.
In reality a dipole is like a machine to produce the two monopoles which
radiate the TWO electric spherical waves.
S*

2955. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 09:34:24 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu5u85$2io$1@node1.news.atman.pl>
Source record: 15679

Uďż˝ytkownik "Dave" <noone@nowhere.com> napisaďż˝ w wiadomoďż˝ci
news:pAkNl.208$5F2.105@nwrddc01.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gu49h0rgs1@node1.news.atman.pl...
>> So the most specific and important question is:
>> How is frequency in receiving antenna. Is it doubled?
>>
> no. i transmit a given frequency and that is what is received. easily
> measured even with simple instruments.

Yes. But an antenna receive the doubled impulses (from the ends of the Hertz
dipole).

The simple instruments must distinguish the doubled frequency from the
second harmonics.
S*

2956. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 10:01:11 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu5vqc$2oo$1@node1.news.atman.pl>
Source record: 15680

<wimabctel@tetech.nl> wrote
news:2d223e1f-4f8d-43b6-854d-f77febc7b633@z7g2000vbh.googlegroups.com...
On 9 mayo, 20:34, Szczepan BiaĹ□ek <sz.bia...@wp.pl> wrote:
> ďž˝ <wimabc...@tetech.nl>
> wrotenews:c2a4968f-da6c-49ee-9887-9c3a53d33ceb@r3g2000vbp.googlegroups.com...
> On 9 mayo, 10:02, Szczepan BiaÂŠÂŠek <sz.bia...@wp.pl> wrote:
>
>
>
> > UÂ˘ÂŻytkownik <wimabc...@tetech.nl> napisaÂŠÄ¸ w
> > wiadomoÂ˘Ä□cinews:e1617758-86bf-4564-bcc8-8784d70cd9d5@s21g2000vbb.googlegroups.com...
> > On 8 mayo, 10:35, Szczepan BiaÂŠÄ¸ek <sz.bia...@wp.pl> wrote:
>
> > > >> I start reading about acoustic analogy.
> > > > I found that: "Over long distances, the atmosphere can cause the
> > > > polarization of a radio wave to fluctuate, so the distinction between
> > > > horizontal and vertical becomes less significant."
> > > > From:http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html
>
> > > >> The my question are:
> > > > 1. What means "long distances" in km (or miles),
> > > > 2. What is the best orientation of the antenna for long distances.
> > > >> S*
> > > >Hello,
> > > >Under normal circumstances, polarization change in line-off-site
>
> > conditions (think of max 40 mile) is not that much, so antenna
> > polarization does matter (unless you use at least circular
> > polarization on one side).
>
> > > >In a propagation path that is dominated by multi-path effects
>
> > (reflection at buildings, hills, foliage, etc), you get almost random
> > polarization and then the polarization is not that important. Your
> > cell phone and indoor WIFI are examples.
>
> > > >Extreme weather conditions can also lead to polarization changes or a
>
> > random polarization component (ducting superrefraction).
>
> > > >For sea water up to VHF, reflection depends on polarization. For
>
> > ground-ground links (for example ship shore) mostly vertical

> > polarization is used (as the sea water helps in this case). So if you
> > want to receive these communication, you use a vertical polarized
> > antenna.
>
> > >The largest change in polarization you will get when the waves have to
>
> > travel through the ionosphere. At HF (ground-ground link via
> > ionosphere), the polarization vector rotates many times. This is due
> > to Faraday rotation. ďż˝ Also ground-satellite links suffer from this
> > effect. The higher the frequency, the less the change in polarization.
> > For example at 100 MHz you should think about 30 full rotations (that
> > is more then 10k degrees), while at 10 GHz the change in polarization
> > will be about 1 degree. Circular polarization may help to mitigate the
> > influence of Faraday rotation.
>
> > >At HF sky wave (100....>1000 mile via ionosphere) polarization of the
>
> > antenna matters. This is not because of the polarization change of the
> > waves due to Faraday rotation, but because of the reflection
> > characteristics of mother earth. In HF antennas, reflection on mother
> > earth is used (in combination with antenna height) to get the required
> > elevation radiation pattern of the antenna. Reflection on earth
> > depends on polarization.
>
> > >Hopefully this helps you a bit.
>
> >> You do not use the words "transversal" and "EM". The only evidence of
> > polarization is antenna directional sensitivity.
> >You talked about radiowaves, that are EM waves. In free space, only
>
> progapation mode is transversal (that means both E- and H-field are
> perpendicular to the direction of energy propagation. With regards to
> audio, in gas, only lossless propagation mode is longitudinal
> (molecule movement and pressure vectors are parallel to the direction
> of energy propagation) .
>
> EM is the hydraulic analogy (by Heaviside). It is a "piece to teach" a
> field
> method.
> In that time the electricity was incompressble and massles. Now the
> electrons are compressible and have mass.
> We need a new analogy. It can be call the Gas analogy or Acoustic analogy.
> Inwww.tetech.nlis wrote that are many analogies for EM.
>
> >> In the acoustic analogy a radio waves are normal spherical electric
> >> waves
> > emitted from the two sources (ends of the dipole).
> > So the sources are polarised, not the waves. Waves interfere. Do you
> > agree?

> >Not agree, the waves are also polarized, that can be physically
>
> measured. Polarization is determined by the E-field vector.
>
> A dipole has the E-field (in electrostatics). The equations are by Gauss.
> The same equations we can use for the Hertz dipole. The E-field will be
> alternate.
> At long distances the frequency in receiving antennas will be twice more.
>
> >> See my topic "frequency doubling" . I am only a science hobyist.
>
> >> The second question was: " What is the best orientation of the antenna
> >> for
> > long distances?
> > For old radio antennas. Very long horizontal wire.
> >On UHF (for example 2450 MHz), long distance can be 20 km, but on HF
>
> 500 km is not called long distance. So the meaning of long distance
> depends on the frequency band.
>
> >You should distinguish between the actual polarization of the antenna
>
> and the physical appearance. depending on how you feed it, a very long
> horizontal wire can be sensitive to vertical or horizontal polarized
> waves.
>
> >Though the equations for acoustical waves look similar to those of EM
>
> waves, the orientation of the field components is completely
> different. ďž˝ When you require a more specific answer, you should make
> your question more specific. I tried to give you a general answer for
> the various forms of radio wave propagation.
>
> Now is XXI century. EM is a beautiful theory from XIX century. In Tetech
> products no incompressible massless fluid.
> So the most specific and important question is:
> How is frequency in receiving antenna. Is it doubled?
>
> ďž˝ Best regards, and sorry for my style
> ďž˝ S*

>Hello Szczepan,

>You are right, charge is compressible. The charge that is required to
charge (for example) a sphere seems

Seems or unquestionable?

> to break the coninuity equition as
is used for incompressible fluid in hydraulics.

>Continuity in electromagnetism is regained by introducing the D-field (dielectric displacement). The D-field is responsible for the capacitive current in case of varying E-field.

So in your products is the dielectric displacement or compressed electrons?

>Regarding frequency doubling. We can be lucky. Antennas and propagation behaves in virtually all cases linearly. From linear systems you might know that input and output frequency are the same, so no doubling in frequency.

Try understand me. Your Hertz dipole emits electrc waves from the TWO ends (opposite phases). So the electrons in a receiving antenna are kicked twice more frequent.

>In case of non-linear parts in a system (for example a corroded connector in an antenna cable that is used by two or more transmitters, that may behave as a semiconductor), you might get so called mixer products (sum frequencies, harmonics, difference frequencies, etc).

Harmonics may be the reason that nobody have seen the Phenomenon.

>If you would like to know more about EM-fields related to antennas and electronics, just start with classical EM theory. This is a solid tool, existing over 100 years and is used by many people with succes to predict behaviour of circuits and antennas. If this will change of today, I will close my business activities next monday.

EM existing over 100 years and will be used the next as the "piece to teach".
Your business base on experiments.
Now You have the opportunity to make the most famous experiment in the history.
If the result will be null I will change my hobby.

Best regards,
S*

2957. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 10:33:03 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <9333f16e-771b-47db-8989-955de66dfed7@q14g2000vbn.googlegroups.com>
Source record: 15681

On May 8, 12:36 pm, "Antonio Vernucci" <vernu...@tin.it> wrote:
> I think this message can be of interest for those using Excel for antenna
> calculations.
>
> Write in one cell: =(-A1^2 + 8)   Note: the exponent of A1 is 2 (and not
> 2+8=10) because Excel performs squaring before summing
>
> Write in another cell: =(8 - A1^2)
>
> They look pretty much the same
>
> But give A1 any non-zero value and see what happen.
>
> 73
>
> Tony I0JX
> Rome, Italy

Computer Science 101 taught me that various computer compilers do not
always handle complex equations as I would expect and to break
equations down into steps using multiple lines of code. Compilers dont
even follow basic rules of mathmatics, if they did you would never be
able to code a = a + 1. They allow the programer to ASSIGN values to
variables and it is up to the programer to follow the rules.

Jimmie

2958. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 11:27:28 UTC
From: Dave <noone@nowhere.com>
Message-ID: <ASyNl.318$5F2.247@nwrddc01.gnilink.net>
Source record: 15682

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gu5u85$2io$1@node1.news.atman.pl...
>
> Uï¿½ytkownik "Dave" <noone@nowhere.com> napisaï¿½ w wiadomoï¿½ci
> news:pAkNl.208$5F2.105@nwrddc01.gnilink.net...
>>
>> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>> news:gu49h0rgs1@node1.news.atman.pl...
>>> So the most specific and important question is:
>>> How is frequency in receiving antenna. Is it doubled?
>>>
>> no. i transmit a given frequency and that is what is received. easily
>> measured even with simple instruments.
>
> Yes. But an antenna receive the doubled impulses (from the ends of the
> Hertz dipole).
>
> The simple instruments must distinguish the doubled frequency from the
> second harmonics.
> S*

sure, they are double kicked... first one direction then the other within
one cycle. you and art should get together, maybe he could straighten you
out.

2959. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 11:58:44 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <b2f57297-1e8c-4602-95da-d71ec5aa873b@l28g2000vba.googlegroups.com>
Source record: 15683

On May 9, 3:24 am, Szczepan Białek <sz.bia...@wp.pl> wrote:
> "JIMMIE" <JIMMIEDEE...@YAHOO.COM>
wrotenews:e7c20dfa-499c-4482-816d-88232116ffa2@n8g2000vbb.googlegroups.com...
> On May 8, 4:51 am, Szczepan Bia³ek <sz.bia...@wp.pl> wrote:
>
> >> It seems that at long distances should appear the phenomenon of frequency
> > > doubling.
> > > See:http://www.rp-photonics.com/frequency_doubling.html
>
> > > Is such?
> > > S*
> > >The laser must be fed into a non-linear medium for the doubling to
>
> occur. The same would be true for RF.Normally the atmosphere and space
> are considered fairly linear in respect to both RF and light, both
> forms of EM radiation. Luckily for us this is the case, otherwise all
> radiation would be multipled to xrays and beyound. The result would
> probablybe the termination of all life as we know it.
>
> Very interesting.
> May be it take place. You do not analse the intensity after each doubling.
> My question apply to the two sources emitters (oscillatig dipole) in a
> lineaar medium.
> S*

The presence of a non linear medium is always required for frequency
doubling. The only part of the atmoshere that I know of that meets the
qualification is the ionosphere which contains plasma which could act
as a nonlinear medium. I suppose that if the signal were powerful
enough to produce ionization that a frequency could be doubled..

Jimmie

2960. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 12:09:49 UTC
From: google@karinya.net
Message-ID: <1d4271d8-2b13-432b-b4e1-7987b8c1bd12@j12g2000vbl.googlegroups.com>
Source record: 15684

Tom,

You posted earlier "Why would anyone use MoM if there were a set of symbolic equations that would work just as well?"

We now have a situation where MoM (EZNEC) and a set of symbolic equations (Corum method) are predicting very similar SRFs.

"Verbal sparring" about measurement methods aside, I think it's important to try to understand what's causing the differences between the EZNEC/Corum value and the measured value. Of course it's possible that EZNEC is in error, but it seems odd to me that the Corum value (derived by a completely unrelated technique) would also produce the same erroneous value.

My EZNEC model had the coil 12" above Real Mininec ground, and connected to ground via a 12" vertical wire with the source in it. I simply looked for the frequency at which the source impedance was purely resistive. The SRF was relatively insensitive to the height of the coil above ground, and changing the ground type made no difference.

I wonder if that model is anything like your own test set-up, and if not whether the differences could explain the different SRFs we're seeing.

73,
Steve G3TXQ

2961. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 13:29:46 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <gFANI.32875$ZP4.8988@nlpi067.nbdc.sbc.com>
Source record: 15685

Tom Donaly wrote:
> I know you're champing at the bit to claim my test setup was all
> wrong and that I used standing wave current when I should have
> been using traveling wave current, and all that, but you'll just
> have to wait.

That's not true at all, Tom. It's a trivial procedure
to use standing waves to determine the approximate 1/4WL
self-resonant frequency. But as with 1/4WL monopoles,
there is *NO 1/4WL self-resonant frequency* without a
ground plane or counterpoise and the quality of the
ground-plane/counterpoise has an effect on the self-
resonant frequency. Sorry, I don't have anything
approaching a perfect ground plane for 4 MHz.

I suppose one could use two identical coils and turn it
into a dipole but I don't have another 75m Texas Bugcatcher
loading coil.

Let me say once again: A 1/4WL monopole, all by itself
in free space is *NOT resonant*. After all, making guy wire
segments 1/4WL long is one way of breaking up their resonance.

We are not looking for super high accuracy/precision/resolution
here. Almost everything is an approximation because we don't
share exactly the same test environments. All I am after is
the technical truth - there's nothing personal involved.

Neither is a 1/4WL coil self-resonant all by itself in free
space. I don't know what Reg was thinking if he advised hanging
the coil from the ceiling without a counterpoise.

A traveling wave can be used to determine 1/4WL self-resonance
but it is a little more complicated than using an MFJ-259B
with standing waves. A load resistor minimizes reflections
while current probes are used to measure the phase shift through
the coil. When the phase shift is 90 degrees, that's the 1/4WL
self-resonant frequency.

> I'll tell you what, Cecil. If you'll test your coil, and
> describe how you did it, I'll tell you what I did. Fair?

1. I connected my 75m Texas Bugcatcher coil through about
a foot of wire to the bumper mount on my GMC pickup and
connected my MFJ-259B to the coax connector under the
bumper. I tuned for lowest impedance above 4 MHz. The
1/4WL self-resonant frequency was ~6.6 MHz. These

measurements were done and reported in March, 2006.

2. I used a tri-mag mount sitting on the hood of my GMC pickup fed through ~6' of coax. The 1/4WL self-resonant frequency was ~6.9 MHz.

3. I used a traveling wave on top of a wooden bench and found the frequency at which the phase shift through the coil was ~90 degrees. That frequency was ~7.2 MHz.

4. I modeled the coil with EZNEC and got some segmentation length warnings. EZNEC reported the 1/4WL self-resonant frequency to be 7.96 MHz.

The spread in the above frequency figures is about +/-8%.

Again Tom, the only thing I am after is the technical truth. If that is also what you are after, we should have no personal conflicts.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2962. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 13:33:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <mIANI.32876$ZP4.1309@nlpi067.nbdc.sbc.com>
Source record: 15686

Szczepan Białˇek wrote:
> EM existing over 100 years ...

EM waves have existed ever since space
became transparent more than 10 billion
years ago. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2963. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 13:46:10 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <DUANl.32878$ZP4.8507@nlpi067.nbdc.sbc.com>
Source record: 15687

google@karinya.net wrote:
> ... and changing the ground type made no difference.

But Tom hung his coil from the ceiling making ground
about five feet away through empty space. What if you
raise your system five feet above ground and don't run
a wire to ground? i.e. no counterpoise at all.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2964. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 13:52:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <J_ANI.32879$ZP4.31366@nlpi067.nbdc.sbc.com>
Source record: 15688

Cecil Moore wrote:
> 4. I modeled the coil with EZNEC and got some segmentation
> length warnings. EZNEC reported the 1/4WL self-resonant
> frequency to be 7.96 MHz.

The above modeling was done using a traveling wave,
i.e. with the coil terminated in its Z0.

5. Using standing waves, i.e. no termniation, EZNEC
said the 1/4WL self-resonant frequency was 7.724 MHz.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2965. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 14:24:08 UTC
From: joe <none@invalid.com>
Message-ID: <JeBNI.13876$%_2.6124@newsfe04.iad>
Source record: 15689

JIMMIE wrote:

> On May 8, 12:36 pm, "Antonio Vernucci" <vernu...@tin.it> wrote:
>> I think this message can be of interest for those using Excel for antenna
>> calculations.
>>
>> Write in one cell: =(-A1^2 + 8)   Note: the exponent of A1 is 2 (and not
>> 2+8=10) because Excel performs squaring before summing
>>
>> Write in another cell: =(8 - A1^2)
>>
>> They look pretty much the same
>>
>> But give A1 any non-zero value and see what happen.
>>
>> 73
>>
>> Tony I0JX
>> Rome, Italy
>
> Computer Science 101 taught me that various computer compilers do not
> always handle complex equations as I would expect and to break
> equations down into steps using multiple lines of code. Compilers dont
> even follow basic rules of mathmatics, if they did you would never be
> able to code a = a + 1.

The expression is an equation in mathematics and an assignment statement in programming. Two different concepts on two different contexts. The meaning of an expression can easily vary based on the context.

Consider 'x'; it can mean any of the following.
An abbreviation for a religious figure
An abbreviation for trans (xmit)
multiplication (2x3)
location of a pirate's treasure on a map
a kiss
one letter in a word

So, expecting a spreadsheet to follow the all rules of math is unrealistic.

The original post reflected confusion over operator precedence. Operator precedence is usually documented. Not paying attention to how a spreadsheet works is the user's fault. If there is doubt, parentheses can be added to make sure the calculations are carried out as desired. Verifying the calculations by hand is also a good idea.

> They allow the programer to ASSIGN values to
> variables and it is up to the programer to follow the rules.
>
> Jimmie

2966. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 16:55:33 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <9evd05pph6tjp65oreutpg61l1seeu2144@4ax.com>
Source record: 15690

On Sat, 9 May 2009 22:51:37 -0500, "Ralph Mowery"
<rmowery28146@earthlink.net> wrote:

>
>"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
>news:5jec05d0k530kudaiqcpk1ngjc84q8kf95@4ax.com...
>>
>> I beg to differ. Microsoft bashing seems to be the national sport in
>> computers. Yet, they're the most successful computah company in
>> history. In addition, they did it without any ties to proprietary
>> hardware. They must be doing something right.
>>

>Microsoft got so big the same way Walmart did. They put out a cheeper
>product.

They weren't always the biggest and baddest company in town. The
software departments of the major big iron makers were much larger
than MS in both manpower and revenue for most of the 1980's. Any one
of them could have produced a consumer grade operating system and
usable apps at the time and wiped MS off the map. They didn't because
they didn't believe that there was money to be made in essentially
consumer retail (i.e. off the shelf) operating systems and apps. They
also didn't know how to do it. I still recall the DEC Rainbow, where
customers were expected to buy pre-formatted floppies from DEC at
outrageous prices.

MS may also be very economical for OEM PC operating systems and
desktop apps. However, I note that a superior and totally free
operating system, while quite popular, has not produced much of a dent
in Microsoft's OS dominance. MS is also not currently the cheapest
OS. Apple OS/X Leopard retails for $130 while Vista Ultimate is $219.
>Digital Research had a much beter product when IBM produced the PC.
I think
>they wanted about $ 150 for it and MS wanted $ 50 for their product. They
>basically put DRI out of business and also some other companies that had
>their ideas incorporated in to the MS product line.

Yep. In 1981, CP/M-86 was better than PC-DOS 1.0. I was there.
CP/M-86 sold for $150. PC-DOS 1.0 sold for $60. Most of the early
IBM PC 5150 adopters bought both. I vaguely recall paying about
$4,000 for mine. $100 difference wasn't going to make a huge
difference.

CP/M-86 did more, but was more difficult to use. PC-DOS (er... QDOS)
was crude and simple. At the time everyone was waiting for DRI to

clean up the OS or at least make it more user friendly, while PC-DOS was treated as a temporary expedient so IBM could sell PC's that were suppose to run mostly apps in BASIC. Also note that PC-DOS included MSBASIC, while CP/M-86 would sorta run the older CP/M-80 apps. CBASIC came later. The IBM PC 5150 came with cassette BASIC in ROM. However BASIC in ROM was not easily accessible from CP/M-86. Within months of introduction, there were literally hundreds of new and ported apps for PC-DOS arriving at Computerland. Meanwhile CP/M-86 was still struggling with porting CP/M-80 apps. I had customers running some bookkeeping application on CP/M-86 well into the late 1980's. It was a struggle under CP/M-86. When they finally purged the machines and switched to PCDOS, things went more smoothly. For example, relinking the CP/M-86 operating system to install a new device driver was not my idea of fun. With PC-DOS, it was just adding a line in config.sys.

All this has something to do with ham radio antennas, but the connection escapes me for the moment.

--
Jeff Liebermann jeffl@cruzio.com
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Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2967. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 16:58:53 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu6o9d$5qs$1@node1.news.atman.pl>
Source record: 15691

Uďż˝ytkownik "Cecil Moore" <nospam@w5dxp.com> napisaďż˝ w wiadomoďż˝ci
news:mIANl.32876$ZP4.1309@nlpi067.nbdc.sbc.com...
> Szczepan Biaďż˝ek wrote:
>> EM existing over 100 years ...
>
> EM waves have existed ever since space
> became transparent more than 10 billion
> years ago. :-)

It is proposition by Maxwell. Do not verified to now.
Electric waves have more chance.
For some it is obvious that in space may be the only one mechanism.
Aepinus proved that gravity and electrostatics are the same. (the
coefficient in the Coulomb equation has the tree different values)
Ampere proved that the magnetism is an ilusion.
So no place for the proposition.
S*

2968. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 17:23:57 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <pg2e05th6428csr7v0ftp1llrv75i323dr@4ax.com>
Source record: 15692

On Sun, 10 May 2009 16:19:22 +0000, Jim Higgins
<invalid@invalid.invalid> wrote:

>I disagree. Negation is not a subtraction operation; it's a
>multiplication operation.

It varies by position. At the front of a string of arithmetic
operations, it's multiplication. In between the terms of an equation
or values, it's subtraction. This article covers some of the problem:
<http://www.physicsforums.com/showthread.php?t=109516>
Humans can usually make the distinction by context. Too bad computers
can't do the same.

>Either way Microsoft Excel implements it incorrectly because in either
>case exponentiation has a higher precedence in the science of
>mathematics.

Agreed.

>Agreed that it's too late to go back now, but bugs perpetuate because
>they aren't fixed promptly when encountered. This issue isn't new and
>it was fixable when first encountered in the very first release of
>Excel.

I can sorta tolerate perpetuating mistakes. However, Microsoft's
attitude toward precedence operations reeks of damage control and of
trying to create a secondary standard by sheer number of users. The
first step to fixing the problem should have been to admit that they
were wrong. That never seems to have happened.

--
Jeff Liebermann jeffl@cruzio.com
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Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2969. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 17:28:25 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu6q0o$61m$1@node1.news.atman.pl>
Source record: 15693

Uďż˝ytkownik "Dave" <noone@nowhere.com> napisaďż˝ w wiadomoďż˝ci
news:ASyNl.318$5F2.247@nwrddc01.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gu5u85$2io$1@node1.news.atman.pl...
>>
>> Uďż˝ytkownik "Dave" <noone@nowhere.com> napisaďż˝ w wiadomoďż˝ci
>> news:pAkNl.208$5F2.105@nwrddc01.gnilink.net...
>>>
>>> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>>> news:gu49h0rgs1@node1.news.atman.pl...
>>>> So the most specific and important question is:
>>>> How is frequency in receiving antenna. Is it doubled?
>>>>
>>> no. i transmit a given frequency and that is what is received. easily
>>> measured even with simple instruments.
>>
>> Yes. But an antenna receive the doubled impulses (from the ends of the
>> Hertz dipole).
>>
>> The simple instruments must distinguish the doubled frequency from the
>> second harmonics.
>> S*
>
> sure, they are double kicked... first one direction then the other within
> one cycle. you and art should get together, maybe he could straighten you
> out.

I am not fluent in English. So try to understand.
The electrons (they have mass and inertia) colect in one end and next
disappear. It is the one cycle. Next they travel to the other end. It takes
time. So in space are send the two signals.(in one your cycle).
In the same time 9Your cycle) the current flow to and fro.
In unverified EM the current cause the spherical wave. In reality the ends.
Only Your simple measurements can verify it.
S*

2970. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 17:38:44 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <2h3e05hhgn72vsrs6o18r6obdfhs2coeau@4ax.com>
Source record: 15694

On Sun, 10 May 2009 16:21:02 +0000, Jim Higgins
<invalid@invalid.invalid> wrote:

>I could be wrong, but I don't recall a case involving MS and Lotus
>over Excel/123. I recall Lotus vs Borland over 1-2-3/Quattro
>though... and that wasn't about details like precedence of operations

Nope. It was Borland versus Lotus over the look and feel of the
spreadsheet.
<http://en.wikipedia.org/wiki/Lotus_v._Borland>

There was also Apple versus Microsoft over the Windoze look and feel:
<http://en.wikipedia.org/wiki/Apple_v._Microsoft>

However, none of this had anything to do with the operation of the
spreadsheet. That's because the original spreadsheet operation was
defined by Visicalc:
<http://en.wikipedia.org/wiki/Visicalc>
Visicalc and spreadsheets were NOT patented and therefore not the
subject of litigation over function or operation:
<http://techdirt.com/articles/20050812/1835229_F.shtml>

Fun reading on who sued whom:
<http://en.wikipedia.org/wiki/Apple_Inc._litigation>
<http://en.wikipedia.org/wiki/Microsoft_litigation>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2971. Super Antenna thumbscrew

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 18:18:10 UTC
From: Al Fansome <al_fansome@hotmail.com>
Message-ID: <1-qdnenc2rzxh5rXnZ2dnUVZ_g5i4p2d@supernews.com>
Source record: 15695

My Super Antenna MP-1 blew over today, and the plastic thumbscrew broke off. Does anyone know where I might find such a part? I've written to the guy who makes them, but I've tried that before when other parts have broken, and he doesn't respond. Any help would be appreciated.

2972. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 19:01:25 UTC
From: Dave <noone@nowhere.com>
Message-ID: <9wFNl.389$5F2.210@nwrddc01.gnilink.net>
Source record: 15696

```
"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gu6q0o$61m$1@node1.news.atman.pl...
>
> Uï¿½ytkownik "Dave" <noone@nowhere.com> napisaï¿½ w wiadomoï¿½ci
> news:ASyNl.318$5F2.247@nwrddc01.gnilink.net...
>>
>> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>> news:gu5u85$2io$1@node1.news.atman.pl...
>>>
>>> Uï¿½ytkownik "Dave" <noone@nowhere.com> napisaï¿½ w wiadomoï¿½ci
>>> news:pAkNl.208$5F2.105@nwrddc01.gnilink.net...
>>>>
>>>> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>>>> news:gu49h0$rgs$1@node1.news.atman.pl...
>>>>> So the most specific and important question is:
>>>>> How is frequency in receiving antenna. Is it doubled?
>>>>>
>>>> no. i transmit a given frequency and that is what is received. easily
>>>> measured even with simple instruments.
>>>
>>> Yes. But an antenna receive the doubled impulses (from the ends of the
>>> Hertz dipole).
>>>
>>> The simple instruments must distinguish the doubled frequency from the
>>> second harmonics.
>>> S*
>>
>> sure, they are double kicked... first one direction then the other within
>> one cycle. you and art should get together, maybe he could straighten
>> you out.
>
> I am not fluent in English. So try to understand.
> The electrons (they have mass and inertia) colect in one end and next
> disappear. It is the one cycle. Next they travel to the other end. It
> takes time. So in space are send the two signals.(in one your cycle).
> In the same time 9Your cycle) the current flow to and fro.
> In unverified EM the current cause the spherical wave. In reality the
> ends.
> Only Your simple measurements can verify it.
> S*
i have made my simple measurements, the frequency is not doubled by the
antenna.
```

2973. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 19:49:00 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <5078de60-dff1-4626-b665-aef2947e6c54@l5g2000vbc.googlegroups.com>
Source record: 15697

On May 10, 6:58 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 9, 3:24 am, Szczepan Biaùek <sz.bia...@wp.pl> wrote:
>
>
>
> > "JIMMIE" <JIMMIEDEE...@YAHOO.COM>
wrotenews:e7c20dfa-499c-4482-816d-88232116ffa2@n8g2000vbb.googlegroups.com...
> > On May 8, 4:51 am, Szczepan Bia³ek <sz.bia...@wp.pl> wrote:
>
> > > >> It seems that at long distances should appear the phenomenon of frequency
> > > > doubling.
> > > > See:http://www.rp-photonics.com/frequency_doubling.html
>
> > > > Is such?
> > > > S*
> > > >The laser must be fed into a non-linear medium for the doubling to
>
> > occur. The same would be true for RF.Normally the atmosphere and space
> > are considered fairly linear in respect to both RF and light, both
> > forms of EM radiation. Luckily for us this is the case, otherwise all
> > radiation would be multipled to xrays and beyound. The result would
> > probablybe the termination of all life as we know it.
>
> > Very interesting.
> > May be it take place. You do not analse the intensity after each doubling.
> > My question apply to the two sources emitters (oscillatig dipole) in a
> > lineaar medium.
> > S*
>
> The presence of a non linear medium is always required for frequency
> doubling. The only part of the atmoshere that I know of that meets the
> qualification is the ionosphere which contains plasma which could act
> as a nonlinear medium. I suppose that if the signal were powerful
> enough to produce ionization that a frequency could be doubled..
>
> Jimmie

Hi,
Let me help you with your problem.
You mentioned a cycle which you know is equal to a period or
occillation of a radio wave. Let us say that an antenna charges up and
then radiates ie half the time or occillation for each action. Now you
have decided to apply power to a half wave antenna asnd not a full
wave antenna that is occupied in some action all of the time period.

Now you have to decide what your half wave antenna is going to do. Charge up only and let the power leak away or radiate without having any power!
What you have to do is to imagine a radiator as a tank circuit where you have two energy storage areas, a inductor and a capacitor and for the mom ent free from losses.
Thus the energy loads up the inductor which then empties into the capacitor which in turn empties back into the inductor e.t.c Thus only one charge is supplied and no more since the same charge is really not being let go!
This is seen as perpetual motion which is an impossibility. Thus if energy is going to be used it will only be expended for half a cycle and then the circuit recharges for the next cycle. Now you should be able to see that a half wave antenna is only capable of working half the time so in no way can you be applying a doubling of frequency motion when you only have a half wave antenna to work with. So S* go back to your study but first replace your half wave antenna and re think things out with a full wave antenna in loop form with a tank circuit in mind and when you have all things in place
substitute your half wave antenna and determine what this does to you tank circuit and radiation.

2974. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 20:10:46 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C083EDCF7F29nonenowhere@61.9.191.5>
Source record: 15698

Jim Higgins <invalid@invalid.invalid> wrote in
news:fkvd051c4qp6o4qci4rtj3nmpdiqke659l@4ax.com:

...
> I could be wrong, but I don't recall a case involving MS and Lotus
> over Excel/123. I recall Lotus vs Borland over 1-2-3/Quattro

Lotus did not like Excel's compatibility with 123, and targeted specifically the / command key in Excel as knocking off Lotus' IP. The / key was removed in later versions, and IIRC the help sections that were designed for 123 users.

Yes, those were the days of people suing people for too much looking and feeling. Ashton Tate were right up there in the DBase lookalike race, but pretty much everyone was into it, and just recently we hear that SCO didn't really own the rights to their flavour of UNIX.

The early versions of Excel did have very good compatibility. One cannot say that about OpenOffice, last time I looked it did not support VBA, and I use VBA to a great extent in many of by spreadsheets, so not being prepared to port and test all the content, the brave new OpenOffice is for beginners who don't have a large investment in VBA code.

Irrespective of the heritage of these things, it is an inexperienced and naive programmer who doesn't check the operator precedence for the language environment being used.

Owen

2975. Re: Super Antenna thumbscrew

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 21:06:15 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <vnfe051ss69t5eljv6975t24i6vricgbnt@4ax.com>
Source record: 15699

On Sun, 10 May 2009 14:18:10 -0400, Al Fansome
<al_fansome@hotmail.com> wrote:

>My Super Antenna MP-1 blew over today, and the plastic thumbscrew broke
>off. Does anyone know where I might find such a part? I've written to
>the guy who makes them, but I've tried that before when other parts have
>broken, and he doesn't respond. Any help would be appreciated.

<http://www.superantennas.com>
If he doesn't answer his snail mail, try the phone:
916-434-9936
Hint: You might have problems getting anyone's attention just prior
to the Dayton Hamvention (May 15-17)

I don't have an MP-1, but if you measure what's left of the nylon
locking screw, and determine the thread type, you should be able to
find something suitable at your local hardware store. If not, there
are plenty of nylon hardware vendors online. However, buying just one
screw might be rather expensive. Worst case is to buy a solid plastic
rod of the proper diameter, and use a threaded die to thread a
replacement screw. Use a radio knob for the handle.

--
Jeff Liebermann jeffl@cruzio.com
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Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2976. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 21:25:26 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <dghe05ti6r8pdvtb2aa4b733sbrn711q8o@4ax.com>
Source record: 15700

On Sun, 10 May 2009 20:10:46 GMT, Owen Duffy <none@no.where> wrote:

>The early versions of Excel did have very good compatibility. One cannot
>say that about OpenOffice, last time I looked it did not support VBA,

VBA support was added in Open Office 2.x:
<http://wiki.services.openoffice.org/wiki/VBA>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2977. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 21:35:41 UTC
From: noname <noname@nomail.net>
Message-ID: <b2ie05p59hlorkqt5u2dg5op2534lgrmpm@4ax.com>
Source record: 15601

"Ralph Mowery" <rmowery28146@earthlink.net> wrote:
>
> Microsoft got so big the same way Walmart did. They put out a
> cheeper product.

What cheaper product was that? After CP/M and similar OS's died decades ago, the earlier PC-DOS and later Windows were the only commercially distributed OS's available unbundled from hardware. Thus, Windows really had no significant competing product to be cheaper than. The hardware to run those Microsoft OS's was occasionally cheaper, but Microsoft had no great influence in that.

stewart / w5net

2978. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 21:52:06 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <o0INl.26346$c45.18236@nlpi065.nbdc.sbc.com>
Source record: 15603

google@karinya.net wrote:
> Tom,
>
> You posted earlier "Why would anyone use MoM if there were a set of
> symbolic equations that would work just as well?"
>
> We now have a situation where MoM (EZNEC) and a set of symbolic
> equations (Corum method) are predicting very similar SRFs.
>
> "Verbal sparring" about measurement methods aside, I think it's
> important to try to understand what's causing the differences between
> the EZNEC/Corum value and the measured value. Of course it's possible
> that EZNEC is in error, but it seems odd to me that the Corum value
> (derived by a completely unrelated technique) would also produce the
> same erroneous value.
>
> My EZNEC model had the coil 12" above Real Mininec ground, and
> connected to ground via a 12" vertical wire with the source in it. I
> simply looked for the frequency at which the source impedance was
> purely resistive. The SRF was relatively insensitive to the height of
> the coil above ground, and changing the ground type made no
> difference.
>
> I wonder if that model is anything like your own test set-up, and if
> not whether the differences could explain the different SRFs we're
> seeing.
>
> 73,
> Steve G3TXQ
>

The presence of anything at all near the coil should lower its resonant
frequency. Even the measuring apparatus should have an effect. I think
it would require very careful planning and implementation to find an
exact resonant frequency. You'd have to ask Richard Clark how to do it
if you wanted high accuracy. I'm unwilling to find fault with either
Corum or EZNEC at this point. Making accurate models can be just
as hard as making valid experiments, and I wish you luck working with
your models. I do urge you to make a coil to test your results against,
though. It isn't difficult, and with a little help from some of your
fellow experimenters, you should get results that are very close to
being meaningful.
73,
Tom Donaly, KA6RUH

2979. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 22:24:34 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <pcie051tprvhr5585csqen6gcg69h1amcf@4ax.com>
Source record: 15604

On Sun, 10 May 2009 23:35:41 +0200, noname <noname@nomail.net> wrote:

>"Ralph Mowery" <rmowery28146@earthlink.net> wrote:
>>
>> Microsoft got so big the same way Walmart did. They put out a
>> cheeper product.

>What cheaper product was that? After CP/M and similar OS's died
>decades ago, the earlier PC-DOS and later Windows were the only
>commercially distributed OS's available unbundled from hardware.

SCO Xenix. Microsoft started Xenix *BEFORE* IBM arrived and bought MS BASIC. IBM wanted an operating system, so Bill Gates sent them to DRI for CP/M. When IBM and DRI couldn't agree on anything, IBM came back to Bill Gates. Bill knew that Tim Paterson of Seattle Computer Products had something called Q-DOS (quick and dirty operating system). QDOS was suppose to be a temporary kludge while waiting for DRI to deliver CP/M-86. PCDOS grew so quickly, the Xenix was put on the back burner for a while. Eventually, Xenix was licensed to SCO, IBM, and others. It was far more expensive than PCDOS or MSDOS but also far more useful and reliable. For example, Xenix had support for RAM above 1MByte, long before EMS/XMS arrived for PC-DOS. I still have customers running SCO Xenix 2.3.4. Xenix also had a rather fanatically loyal following. When SCO tried to promote Open Desktop as a Xenix replacement and proceeded to try and kill Xenix, the dealers almost rebelled. It took over 10 years for Xenix to fade away, mostly because of simple neglect.

There were plenty of other Unix v.7 ports by other companies at the time (long before Linux).
<http://www.levenez.com/unix/>
For example, IBM and DEC both sold Venix on their low end hardware in 1984.

There were also a mess of general purpose non-Unix and non-DOS operating systems (not tied to hardware) released over the years. Minix, GEM, GEOS, QNX, Netware, OS/2 are the ones I can recall.
<http://en.wikipedia.org/wiki/Operating_systems_timeline>
Most of the general purpose OS's were roughly in the same price range as MSDOS. Therefore, price was not a major factor in their demise.

--
Jeff Liebermann jeffl@cruzio.com
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Skype: JeffLiebermann AE6KS 831-336-2558

2980. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-10 22:52:08 UTC
From: Ralph Mowery <rmowery28146@earthlink.net>
Message-ID: <LumdnX-nUMPb0ZrXnZ2dnUVZ_tKdnZ2d@earthlink.com>
Source record: 15602

"noname" <noname@nomail.net> wrote in message
news:b2ie05p59hlorkqt5u2dg5op2534lgrmpm@4ax.com...
> "Ralph Mowery" <rmowery28146@earthlink.net> wrote:
>>
>> Microsoft got so big the same way Walmart did. They put out a
>> cheeper product.
>
>
> What cheaper product was that? After CP/M and similar OS's died
> decades ago, the earlier PC-DOS and later Windows were the only
> commercially distributed OS's available unbundled from hardware. Thus,
> Windows really had no significant competing product to be cheaper
> than. The hardware to run those Microsoft OS's was occasionally
> cheaper, but Microsoft had no great influence in that.
>
> stewart / w5net

The very first operating systems were either DR or MS products. MS was
cheeper than the DR product.
Then MS incorporated softwear like Double Space (big lawsuit over that so
win 3.11 came out) Internet explorer is standard now. Pushed out many
other internet programs.

2981. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 00:07:38 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C08670595E3Anonenowhere@61.9.191.5>
Source record: 15605

Jeff Liebermann <jeffl@cruzio.com> wrote in
news:dghe05ti6r8pdvtb2aa4b733sbrn711q8o@4ax.com:

> On Sun, 10 May 2009 20:10:46 GMT, Owen Duffy <none@no.where> wrote:
>
>>The early versions of Excel did have very good compatibility. One cannot
>>say that about OpenOffice, last time I looked it did not support VBA,
>
> VBA support was added in Open Office 2.x:
> <http://wiki.services.openoffice.org/wiki/VBA>
>

Thanks, that is good to know... I will try it out.

73
Owen

2982. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 00:25:13 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <99KNI.18872$8_3.17754@flpi147.ffdc.sbc.com>
Source record: 15606

Jeff Liebermann wrote:
> Yep. In 1981, CP/M-86 was better than PC-DOS 1.0. I was there.

I was there also. Some of the future CP/M-80 guys
worked for Intel while I was there. They tried to
get Intel to develop their ISIS-80 software
development system program into an open architecture.
Intel decided most of the money to be made was in the
hardware chips and that there was not much money to be
made in microcomputer operating systems and computer
boxes.

Those high-caliber software guys moved from Silicon Valley
to Digital Research over on the Pacific coast and the rest
is history. Intel could have been the behemoth supplying
the microcomputer chips, operating system, AND the
computer box.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2983. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 00:31:45 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <gfKNl.18873$8_3.9261@flpi147.ffdc.sbc.com>
Source record: 15607

Tom Donaly wrote:
> The presence of anything at all near the coil should lower its resonant
> frequency.

That's my experience. Conversely, the farther away from the
coil the ground plane is located, the higher the self-resonant
frequency. The location of the ground plane has a significant
effect on the self-resonant frequency of the coil.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2984. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 01:46:46 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <ac473747-4c9a-4b95-bb07-ef23461de49a@j9g2000prh.googlegroups.com>
Source record: 15608

On May 9, 1:56 pm, goo...@karinya.net wrote:
> Tom,
>
> OK, I tried what you suggested. I put my loading coil midway up a 20ft
> vertical wire in the EZNEC model. I reduced the number of turns to
> lift the resonant frequency to 5.6MHz. EZNEC predicted that the
> magnitude of the current at the top of the coil would be 77% of the
> magnitude at the bottom.
>
> Then I removed the coil in the model, replaced it with a straight wire
> containing an EZNEC lumped load, and adjusted that load for antenna
> resonance at 5.6MHz again. I needed +j1630.
>
> Given the dimensions of the coil, the Corum calculator predicted a
> lumped circuit equivalent reactance of +j1573, and it predicted a
> current fall-off across the coil of 78%.

Hi Steve,

OK, I'm wondering now exactly what "Corum calulator" you are using
that predices "a current fall-off across the coil of 78%." The
inductance calculator on the HamWaves website that I thought we were
talking about doesn't seem to say anything about "current fall-off" in
coils, though perhaps I'm missing it.

Cheers,
Tom

2985. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 03:07:41 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <nt2f055s9dtr3ihsuelokbfu2tuf0om9om@4ax.com>
Source record: 15609

On Sun, 10 May 2009 19:25:13 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Jeff Liebermann wrote:
>> Yep. In 1981, CP/M-86 was better than PC-DOS 1.0. I was there.

>I was there also. Some of the future CP/M-80 guys
>worked for Intel while I was there. They tried to
>get Intel to develop their ISIS-80 software
>development system program into an open architecture.
>Intel decided most of the money to be made was in the
>hardware chips and that there was not much money to be
>made in microcomputer operating systems and computer
>boxes.

Not exactly. Gary Kildall and others wrote some simple games for the
4004 that ran on what later became a development system. They tried
to get Robert Noyce to sell it. Nope. Noyce thought there was more
money in digital watches which Intel never produced. At the time
(1971) nobody had the slightest idea of what to do with a general
purpose microprocessor. Even the dynamic RAM business was almost an
accident when Intel discovered they couldn't sell micros without the
necessary glue chips and memory. In it first few year, Intel didn't
have the slightest idea what they were going to manufacture.

Somewhat later, he tried to hang some storage onto an MCS-4 chipset
demo board with limited success in adapting his PL/M operating system.
That morphed into CP/M in order to distinguish it from the Intel
effort. There's probably something on the topic in the book "Fire in
the Valley". Worth reading methinks:
<http://www.amazon.com/Fire-Valley-Making-Personal-Computer/dp/0071358927>
Ouch. It seems to have become a collectors item. I think I paid $10
for my paperback edition. (Someone stole my hardback edition). At
least the used copies are affordable.

>Those high-caliber software guys moved from Silicon Valley
>to Digital Research over on the Pacific coast and the rest
>is history. Intel could have been the behemoth supplying
>the microcomputer chips, operating system, AND the
>computer box.

Yep. I'm not sure they could have handled the rapid growth in too
many areas. At the time, Intel's gross was growing about 40% per
year, which is about at the limit of which they could fund growth with
revenue and loans. To diversify into adjacent areas would have
certainly been opportunistic, but would have drawn resources better

spent on cranking out chips. Diversification through acquisition is
safer. Craig Barrett tried unsuccessfully to diversify the company,
while Paul Otellini sold off divisions and diversions. Intel does
well with its core business, but not much elsewhere. Remember the
Santa Clara bubble memory division (with the giant plastic bubble in
place of a picture window in conference room)? That's where the term
"economic bubble" may have originated.

It's interesting to note that the general purpose operating systems
that were *NOT* tied to a hardware platform have survived far longer
than those attached to a manufacturers hardware. Apple OS/X is an
exception in that it's 75% portable (Mach) Unix, and about 25%
proprietary Apple. It would not have survived in it's original MacOS
form. Well, OS/X is a somewhat portable operating system:
<http://gizmodo.com/5156903/how-to-hackintosh-a-dell-mini-9-into-the-ultimate-os-x-netbook
>

All this has something to do with antennas, although the connection
currently escapes me.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

2986. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 03:44:59 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gu86vr$7030$1@tr22n12.aset.psu.edu>
Source record: 15610

Tom Ring wrote:

> And denigrating slide rules is silly. Most of the world that surrounds
> you was calculated with a slide rule's resolution. When used properly
> they give answers that are as accurate as is needed for engineering.

I was one of the last classes in school to use a slide rule - they went to calculators the next year.

I have to say that using a slide rule changed my outlook on math in all it's forms. Took a absolute idiot at math to the dilettante I am today. 8^)

I use calculators all the time now, but I still have a slide rule that I use in the garage....

- 73 de Mike N3LI -

2987. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 09:26:04 UTC
From: google@karinya.net
Message-ID: <5422ed3d-f457-4f70-940e-1d7083ce4659@v17g2000vbb.googlegroups.com>
Source record: 15611

Hi Tom,

I should have been more explicit.

I took the "Axial Propagation Factor" (4.372 rad/m) figure which was
given by the HamWaves calculator and multiplied it by the coil length
(155mm) to find the effective electrical length of the coil (38.83
degrees). Then I took cos(38.83)=0.779 as the fall-off in current
across the coil.

73,
Steve G3TXQ

On May 11, 2:46 am, K7ITM <k7...@msn.com> wrote:
>
> Hi Steve,
>
> OK, I'm wondering now exactly what "Corum calulator" you are using
> that predices "a current fall-off across the coil of 78%." The
> inductance calculator on the HamWaves website that I thought we were
> talking about doesn't seem to say anything about "current fall-off" in
> coils, though perhaps I'm missing it.
>
> Cheers,
> Tom

2988. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 09:35:41 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu8ilvdgj1@node1.news.atman.pl>
Source record: 15612

"Art Unwin" <ArthurUnwin@gmail.com>wrote
news:5078de60-dff1-4626-b665-aef2947e6c54@l5g2000vbc.googlegroups.com...
On May 10, 6:58 am, JIMMIE <JIMMIEDEE...@YAHOO.COM> wrote:
> On May 9, 3:24 am, Szczepan Biaďż˝ek <sz.bia...@wp.pl> wrote:
>
>
>
> > "JIMMIE" <JIMMIEDEE...@YAHOO.COM>
> > wrotenews:e7c20dfa-499c-4482-816d-88232116ffa2@n8g2000vbb.googlegroups.com...
> > On May 8, 4:51 am, Szczepan Biaďż˝ek <sz.bia...@wp.pl> wrote:
>
> > > > It seems that at long distances should appear the phenomenon of
> > > > frequency
> > > > doubling.
> > > > See:http://www.rp-photonics.com/frequency_doubling.html
>
> > > > Is such?
> > > > S*
> > > >The laser must be fed into a non-linear medium for the doubling to
>
> > occur. The same would be true for RF.Normally the atmosphere and space
> > are considered fairly linear in respect to both RF and light, both
> > forms of EM radiation. Luckily for us this is the case, otherwise all
> > radiation would be multipled to xrays and beyound. The result would
> > probablybe the termination of all life as we know it.
>
> > Very interesting.
> > May be it take place. You do not analse the intensity after each
> > doubling.
> > My question apply to the two sources emitters (oscillatig dipole) in a
> > lineaar medium.
> > S*
>
> The presence of a non linear medium is always required for frequency
> doubling. The only part of the atmoshere that I know of that meets the
> qualification is the ionosphere which contains plasma which could act
> as a nonlinear medium. I suppose that if the signal were powerful
> enough to produce ionization that a frequency could be doubled..
>
> Jimmie

>Hi,
>Let me help you with your problem.
>You mentioned a cycle which you know is equal to a period or

occillation of a radio wave. Let us say that an antenna charges up and
then radiates ie half the time or occillation for each action. Now you
have decided to apply power to a half wave antenna asnd not a full
wave antenna that is occupied in some action all of the time period.
Now you have to decide what your half wave antenna is going to do.
Charge up only and let the power leak away or radiate without having
any power!
What you have to do is to imagine a radiator as a tank circuit where
you have two energy storage areas, a inductor and a capacitor and for
the mom ent free from losses.
Thus the energy loads up the inductor which then empties into the
capacitor which in turn empties back into the inductor e.t.c Thus only
one charge is supplied and no more since the same charge is really not
being let go!
This is seen as perpetual motion which is an impossibility. Thus if
energy is going to be used it will only be expended for half a cycle
and then the circuit recharges for the next cycle. Now you should be
able to see that a half wave antenna is only capable of working half
the time so in no way can you be applying a doubling of frequency
motion when you only have a half wave antenna to work with. So S* go
back to your study but first replace your half wave antenna and re
think things out with a full wave antenna in loop form with a tank
circuit in mind and when you have all things in place
substitute your half wave antenna and determine what this does to you
tank circuit and radiation.

Our problem apply to the original Hertz experiment. See:
http://people.seas.harvard.edu/~jones/cscie129/nu_lectures/lecture6/hertz/Hertz_exp.html

There is: "According to theory, if electromagnetic waves were spreading from
the oscillator sparks, they would induce a current in the loop that would
send sparks across the gap"

In EM waves are produced by the current (oscllator sparks in the Hertz
apparatus). One cycle is completed when the current flow to and fro.

But there is possible the other theory. Electric waves are spreading from
the ends (plates or big balls in Hertz apparatus). Now we know that
electrons have mass and are compressible. So at the ends appear and
disappear the huge charges. In that case an electric impulse is send when
the current flows to (from one end) , and the next when the current flows
fro (from the other end). So in one EM cycle are the two electric cycles.
So the frequency is not doubled. The electric is twice more.

It seems that at long distances receiving antennas should work better at the
electric frequencies.
BTW, what exactly means "Luxembourg effect" (Brian wrote: " e.g Luxembourg
Effect; so
doubling is possible.")?
S*

2989. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 11:43:47 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%3UNl.3930$fD.1443@flpi145.ffdc.sbc.com>
Source record: 15613

Szczepan Białˊżˊek wrote:
> Now you have to decide what your half wave antenna is going to do.
> Charge up only and let the power leak away or radiate without having
> any power!

A 1/2WL dipole is a standing-wave antenna. Believe it
or not, ~80% of the steady-state energy on a 1/2WL dipole
is not radiated, i.e. as far as total energy is concerned,
radiation is a secondary effect. Energy is traveling in both
directions at the same time on a standing-wave antenna. At
the tip of the antenna, the two energy flows are equal. At
the feedpoint, the reflected wave is only ~20% down in
energy level from the forward wave - the reflected voltage
and current are only ~10% down from the forward voltage and
current. The feedpoint impedance of a 1/2WL dipole is the
result of superposition of the forward and reflected waves.
The Z0 of a 1/2WL dipole using #14 wire at a height of 30
feet is very close to 600 ohms.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2990. Radial straight down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 12:23:58 UTC
From: Richard <nearlynews_email@ntlworld.com>
Message-ID: <76qjn2F1c0oi5U1@mid.individual.net>
Source record: 15614

Has anyone ever bored a hole into the ground and dangled a radial or counterpoise down it instead of burying a radial 6" horizontally under the ground or stringing out a counterpoise?

Any promise in doing this? Or is it a non-starter?

2991. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 12:30:39 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <QTUNl.32940$ZP4.22724@nlpi067.nbdc.sbc.com>
Source record: 15615

google@karinya.net wrote:
> I took the "Axial Propagation Factor" (4.372 rad/m) figure which was
> given by the HamWaves calculator and multiplied it by the coil length
> (155mm) to find the effective electrical length of the coil (38.83
> degrees). Then I took cos(38.83)=0.779 as the fall-off in current
> across the coil.

Interesting. W8JI's coil through which he measured a 3 nS
delay was 100t, 2" dia, 10" long, #18 wire.

http://www.w8ji.com/inductor_current_time_delay.htm

Converting everything to metric and entering the data into
the HamWaves calculator at 4 MHz, yields a calculated delay
of 21.5 nS through the W8JI coil and a VF of ~0.04 at 4 MHz.

So which are we to believe? W8JI's measurements or ON4AA's
calculator. There's a 7x difference between 3 nS and 21 nS.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2992. Re: Radial straight down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 12:35:47 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <EYUNl.16062$hc1.12222@flpi150.ffdc.sbc.com>
Source record: 15616

Richard wrote:
> Has anyone ever bored a hole into the ground and dangled a radial or
> counterpoise down it instead of burying a radial 6" horizontally under
> the ground or stringing out a counterpoise?

One of my textbooks says such a configuration
dissipates half of the incident power.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

2993. Re: Radial straight down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 12:47:09 UTC
From: "Harold E. Johnson" <W4ZCB@mchsi.com>
Message-ID: <h7VNI.693709$yE1.603131@attbi_s21>
Source record: 15617

"Richard" <nearlynews_email@ntlworld.com> wrote in message
news:76qjn2F1c0oi5U1@mid.individual.net...
> Has anyone ever bored a hole into the ground and dangled a radial or
> counterpoise down it instead of burying a radial 6" horizontally under the
> ground or stringing out a counterpoise?
>
> Any promise in doing this? Or is it a non-starter?

Well, I have a 1/2 wave inverted L for 160 that I use with a remotely tuned L network on 160, 80 and 40. The matching network sits on top of a 6 inch well casing that goes down 90 feet and is grounded to that. That was initially my only ground. The 160 meter impedance was 2600 Ohms and 1800 on 80 and 700 on 40. I later installed a counterpoise under the horizontal portion of the antenna, 160 feet at 10 foot elevation. Of course, I didn't notice any change in operational reports or anything, but the feedpoint impedance went to 1900, 1200 and 450 Ohms respectively. I suppose the earthworms think that global freezing is taking place, but no other effects noted. It's been a very effective LF antenna for over 20 years both ways.

W4ZCB

2994. Re:Super Antenna Thumbscrew

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 13:27:04 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <gu9939$j14$1@news.netins.net>
Source record: 15618

Many hardware and also lumber stores carry a selection of nylon (plastic) screws. They may not have a plastic thumb screw, but any type should work. I'm not familiar with that antenna, but does the screw have to be non-conductive? lotsa luck KD0FGX

2995. how to get the itu recommendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 14:02:13 UTC
From: "pswd(小刀)" <yfdiao@gmail.com>
Message-ID: <5925255d-6401-4ce7-b287-cebedbcf3595@w35g2000prg.googlegroups.com>
Source record: 15619

i need the recommendations itu-r p.1238

but i don't have the account of the itu

if anybody has a account

can you help me to have a download?

thx very much~

2996. Re: how to get the itu recommendations?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 14:57:46 UTC
From: christofire <christofire@btinternet.com>
Message-ID: <bfednYBcB_5soZXXnZ2dnUVZ8o2dnZ2d@bt.com>
Source record: 15620

"pswd(??)" <yfdiao@gmail.com> wrote in message
news:5925255d-6401-4ce7-b287-cebedbcf3595@w35g2000prg.googlegroups.com...
>i need the recommendations itu-r p.1238
>
> but i don't have the account of the itu
>
> if anybody has a account
>
> can you help me to have a download?
>
> thx very much~

http://cict.inatel.br/nova2/docentes/dayan/Electronic_Library/Standards/Propagation/Rec.%20ITU-R%20P.1238-1.pdf

didn't think of trying Google then?

Chris

2997. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 17:21:32 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gu9dvahkq1@node1.news.atman.pl>
Source record: 15621

"Dave" <noone@nowhere.com> wrote
news:9wFNl.389$5F2.210@nwrddc01.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gu6q0o$61m$1@node1.news.atman.pl...
>>
>> I am not fluent in English. So try to understand.
>> The electrons (they have mass and inertia) colect in one end and next
>> disappear. It is the one cycle. Next they travel to the other end. It
>> takes time. So in space are send the two signals.(in one your cycle).
>> In the same time 9Your cycle) the current flow to and fro.
>> In unverified EM the current cause the spherical wave. In reality the
>> ends.
>> Only Your simple measurements can verify it.
>> S*
> i have made my simple measurements, the frequency is not doubled by the
> antenna.

You are to speedy. Look at the original Hertz experiment:
http://people.seas.harvard.edu/~jones/cscie129/nu_lectures/lecture6/hertz/Hertz_exp.html

There is: "According to theory, if electromagnetic waves were spreading from
the oscillator sparks, they would induce a current in the loop that would
send sparks across the gap"

In EM waves are produced by the current (oscllator sparks in the Hertz
apparatus). One cycle is completed when the current flow to and fro.

But there is possible the other theory. Electric waves are spreading from
the ends (plates or big balls in Hertz apparatus). Now we know that
electrons have mass and are compressible. So at the ends appear and
disappear the huge charges. In that case an electric impulse is send when
the current flows to (from one end) , and the next when the current flows
fro (from the other end). So in one EM cycle are the two electric cycles.
So the frequency is not doubled. The electric is twice more.

Does your measurements distinguish radiation from the spakrks from that from
the plates?
S*

2998. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 17:56:40 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <dfc01e3d-ec97-45d8-9ed6-380618b9deaa@n4g2000vba.googlegroups.com>
Source record: 15622

On May 11, 2:26 am, goo...@karinya.net wrote:
> Hi Tom,
>
> I should have been more explicit.
>
> I took the "Axial Propagation Factor" (4.372 rad/m) figure which was
> given by the HamWaves calculator and multiplied it by the coil length
> (155mm) to find the effective electrical length of the coil (38.83
> degrees). Then I took cos(38.83)=0.779 as the fall-off in current
> across the coil.
>
> 73,
> Steve G3TXQ
>
Hi Steve,

OK, so I suppose you are assuming that the current distribution will follow a cosine along electrical degrees of your antenna, with a maximum at the base/feedpoint. If that's the case, then would you not account for the bottom 10 feet of wire, about 20.5 electrical degrees? If I do that and assume 1 amp at the feedpoint, I should see about .9367 amps at 20.5 degrees and 0.5101 amps at (20.5+38.83) electrical degrees. 0.5101/.9367 would then be the ratio of currents between the ends of the coil, and that's 0.5446, only a 45.54 percent fall-off.

In fact, it seems to me that the idea of cos(38.83 degrees) = .779 would imply a fall-off of 22.1%... and that tells me that perhaps I'm still not understanding your model very well. Maybe you are NOT assuming the current along the electrical degrees of the antenna, up from the feedpoint, will have a cosine distribution. At this point, I have to say that I'm just not at all sure what your model really is. Perhaps you are making different assumptions about the current distribution...

Also, if you still have the model around, try adding a top hat to the upper wire. For simplicity, you can just use a simple "T" structure, where the top horizontal wire is, say, five feet long total. With such a configuration, what's the current distribution along the radiating element going to be?

Of course, what I'm suggesting here is that one must be careful to test ones models at corner cases before putting too much faith in them, and even then, one must always be wary of cases where the model may go awry.

Cheers,
Tom

2999. FS E.F. Johnson Matchboxes/Antenna Tuners

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 17:59:07 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <jOZNl.16465$pr6.11049@flpi149.ffdc.sbc.com>
Source record: 15623

I have for sale several E.F. Johnson Matchboxes/Antenna Tuners: 1. Model 250-23-3. This is the small 275 watts AM tuner(good for over a KW PEP SSB). It has the built in SWR Meter and outboard Coupler. Nice shape. Price is:$135; 2. Model 250-23. Small tuner as above but without the Meter and Coupler. Good shape. Price is:$85; 3. Model 250-30. This is the Large KW AM tuner(good for much more on SSB). This model does not have the Meter or Coupler. It is in very nice shape. Price is: $275; 4.Model 250-30-3. Large KW AM model as above, but it has the Meter. Requires Coupler not supplied. This one works but is rough cosmetically. Digital pictures available. Price is $135. Shipping is FREE within CONUS for all tuners. Thanks, Charlie Hugg, K5MBX

3000. Re: Radial straight down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 18:35:06 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gu9r4q$1kk$1@news.jpl.nasa.gov>
Source record: 15627

Richard wrote:
> Has anyone ever bored a hole into the ground and dangled a radial or
> counterpoise down it instead of burying a radial 6" horizontally under
> the ground or stringing out a counterpoise?
>
> Any promise in doing this? Or is it a non-starter?

Radials basically serve the purpose of improving the apparent conductivity of the soil at the base of the antenna (e.g. less loss than a simple stake in the ground).

A goodly portion of the loss of an antenna like a vertical is in the IR losses of the RF current flowing in the surface of the soil (where "surface" depends on the RF properties of the soil, skin effect and all that).

So, burying deeper probably doesn't help this (e.g. you want to improve the conductivity at the surface).

3001. Re: Thanks (DTV antenna)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 18:54:40 UTC
From: Henry <wa0goz@arrl.net>
Message-ID: <gu9s9i$27c$1@news.motzarella.org>
Source record: 15626

Gordon wrote:
> Thanks for the advice on the DTV antenna. I managed to get
> some improvement on it by properly dressing and managing
> the leads. (I forgot who made that suggestion, sorry).
>
> You can see it at:
> http://mysite.verizon.net/g_reeder/Content/DTV_antenna.html
> Please don't laugh.

Gordon

Is the 7 inches measured from center to center of each bowtie or from
the end of one bowtie to the end of the other?

Thanks

Henry

3002. Antenna modeling software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 19:42:45 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9C08772157FF4greederxprtnet@194.177.98.144>
Source record: 15624

I have seen a few antenna modeling programs mentioned here.
Is there any concensus within the group on which one is
better to use? Any that are free?

- Consider that I am pretty much a beginner when it
comes to antennas.
- I am intrested in modeling receiving antennas in the
UHF and VHF bands.
- My big point of couriosity right now is reflectors.
I want to see the effects of various wires, rods, screens,
foil, etc.

I suppose that I could pepper the group with questions.
But, at some point it's best to do my own damn research.

3003. Thanks (DTV antenna)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 19:45:42 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9C0877A149318greederxprtnet@194.177.98.144>
Source record: 15625

Thanks for the advice on the DTV antenna. I managed to get
some improvement on it by properly dressing and managing
the leads. (I forgot who made that suggestion, sorry).

You can see it at:
http://mysite.verizon.net/g_reeder/Content/DTV_antenna.html
Please don't laugh.

3004. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:11:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ED%NI.32974$ZP4.7996@nlpi067.nbdc.sbc.com>
Source record: 15628

K7ITM wrote:
> OK, so I suppose you are assuming that the current distribution will
> follow a cosine along electrical degrees of your antenna, with a
> maximum at the base/feedpoint.

This is a good assumption for horizontal 1/2WL thin-wire
dipoles as presented by Kraus. It doesn't seem to be valid
for loaded vertical antennas where there is an instantaneous
phase shift at the impedance discontinuities. There is a
definite change in the slope of the current profile at
such boundaries.

And there is the nagging current bulge in the loading coil
causing a rise in current in adjacent turns. Normally a
current maximum would indicate a purely resistive impedance
but that doesn't seem to be the case inside a loading coil.

Years ago, I gave up on the current cosine argument for
loaded mobile antenna current in favor of loading the
coil with its characteristic impedance and using traveling
wave current to measure the electrical length of the coil.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3005. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:19:41 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mdvg051hi3pr15rik2ltscj361he28lvpc@4ax.com>
Source record: 15629

On Mon, 11 May 2009 02:26:04 -0700 (PDT), google@karinya.net wrote:

>I should have been more explicit.
>
>I took the "Axial Propagation Factor" (4.372 rad/m) figure which was
>given by the HamWaves calculator and multiplied it by the coil length
>(155mm) to find the effective electrical length of the coil (38.83
>degrees). Then I took cos(38.83)=0.779 as the fall-off in current
>across the coil.

Hi Steve,

I don't often drop into this side-thread as the topic had drifted into
a stagnated intellectual backwater.

On this and one prior posting by you:
>On Sat, 9 May 2009 13:56:31 -0700 (PDT), google@karinya.net wrote:
>>OK, I tried what you suggested. I put my loading coil midway up a 20ft
>>vertical wire in the EZNEC model. I reduced the number of turns to
>>lift the resonant frequency to 5.6MHz.

I note how little Corrum really has to offer when you had to take the
same:
>effective electrical length of the coil (38.83 degrees)
and change it (to the same effective electrical length? I think not.)
to fit the same available wire, at the same specific frequency - only
at a different height along the available wire.

By my quick read on the stale crisis of current "fall-off" and proving
Corum by EZNEC; it seems quite apparent that EZNEC (the authority) is
driving the coil requirements which are then force fitted by Corum's
inappropriate application.

After all, Corum says nothing of:
1. Application;
2. Base loading;
3. Mid or Top loading;
4. Stinger selection;
and yet all solutions seem to derive from their math with the elegance
of an ad-hoc "missing degrees" provision (that is quickly discarded as
shown above when current becomes the focus).

Corum DOES say that the formula is only applicable for certain
constraints which I note are NEVER observed in the application nor the
breach. All of the commentary proceeds through equation (32) when
every argument is an instance of equation (31).

How much are you willing to accept of that paper (which is another way of asking how much you are willing to discard)?

I will ask one ace-buster question that I expect no one will answer:
Show me the computation for M (= tau ï¿½ a)
which would be appropriate for the NON-quarterwave resonance of the coil in question at 3.85 MHz.

For extra credit:
1. What is the wave number, k for 3.85 MHz?
2. What is the phase velocity for the original (not changed) coil?
3. What is tau for the original (not changed) coil at 3.85 MHz?

Yes, this is intimidating to ask; but seeing there are so many authorities on Corum; and that these considerations would have been done by the authors themselves; then their solutions must reside somewhere in notes or as marginalia for quick reporting (or could be summoned up through running through the same math as before).

73's
Richard Clark, KB7QHC

3006. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:28:53 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <nu1h05lkr8olm4s4uc1ihsns9o008drssh@4ax.com>
Source record: 15630

On Sun, 10 May 2009 14:52:06 -0700, "Tom Donaly"
<dtdonaly@sbcglobal.net> wrote:

>The presence of anything at all near the coil should lower its resonant
>frequency. Even the measuring apparatus should have an effect. I think
>it would require very careful planning and implementation to find an
>exact resonant frequency. You'd have to ask Richard Clark how to do it
>if you wanted high accuracy. I'm unwilling to find fault with either
>Corum or EZNEC at this point. Making accurate models can be just
>as hard as making valid experiments, and I wish you luck working with
>your models. I do urge you to make a coil to test your results against,
>though. It isn't difficult, and with a little help from some of your
>fellow experimenters, you should get results that are very close to
>being meaningful.
>73,
>Tom Donaly, KA6RUH

Hi Tom,

Thanx for the flowers. In point of fact, inductor and capacitor
standards are shielded. They are three terminal devices. To remove
the effects of the shield you drive it at the same potential (which is
to say the shield is floating with respect to everything/one around
it).

For the practicality of things, Reggie was never very far off the mark
and you following him as an exemplar is suitable to other's inventions
of proximities that have no defining moment in their references.

I can well guess the remainder of your method as it was well defined
in most Ham manuals (derived from conventional EE methods) when I read
up on it 40 odd years ago. If Cecil every gets over this intellectual
pebble in the path, please quote it so that I can see how much strain
that ascent took.

73's
Richard Clark, KB7QHC

3007. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:39:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <q20Ol.32978$ZP4.21388@nlpi067.nbdc.sbc.com>
Source record: 15631

Richard Clark wrote:
> I note how little Corrum really has to offer when you had to take the
> same:
>> effective electrical length of the coil (38.83 degrees)
> and change it (to the same effective electrical length? I think not.)
> to fit the same available wire, at the same specific frequency - only
> at a different height along the available wire.

Richard, I explained that phenomenon in a posting last
week which you obviously didn't read. Please go back and
read my posting of 5-9-09 at 1:08pm to this thread.

It is also explained on my web page at:

http://www.w5dxp.com/shrtstub.htm
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3008. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:40:21 UTC
From: google@karinya.net
Message-ID: <c7882deb-e30d-425a-b653-8b871723f6ca@o20g2000vbh.googlegroups.com>
Source record: 15632

Tom,

Firstly, I'm guilty of a "sloppy" choice of words. Whenever I've been using the phrase "drop off in current" I've meant the current at the top of the coil as a percentage of the current at the bottom. So when I've quoted 70% the current will have reduced by 30%. Apologies!

Secondly, you're testing the limits of my understanding with the overall current distribution from base section, through the coil, to the top section. However I think the point is that you can't simply "add electrical degrees" through the various sections when the characteristic impedances of the sections are so disparate. That was Cecil's point in the very first posting. We also know that, as expected, summing the "degrees" for the three sections gets nowhere near a total of 90 degrees, so clearly you can't assume a cosine distribution that is contiguous across all three sections.

I'll investigate what happens with a "top hat".

73,
Steve G3TXQ

On May 11, 6:56 pm, K7ITM <k7...@msn.com> wrote:
>
> Hi Steve,
>
> OK, so I suppose you are assuming that the current distribution will
> follow a cosine along electrical degrees of your antenna, with a
> maximum at the base/feedpoint. If that's the case, then would you not
> account for the bottom 10 feet of wire, about 20.5 electrical
> degrees? If I do that and assume 1 amp at the feedpoint, I should see
> about .9367 amps at 20.5 degrees and 0.5101 amps at (20.5+38.83)
> electrical degrees. 0.5101/.9367 would then be the ratio of currents
> between the ends of the coil, and that's 0.5446, only a 45.54 percent
> fall-off.
>
> In fact, it seems to me that the idea of cos(38.83 degrees) = .779
> would imply a fall-off of 22.1%... and that tells me that perhaps I'm
> still not understanding your model very well. Maybe you are NOT
> assuming the current along the electrical degrees of the antenna, up
> from the feedpoint, will have a cosine distribution. At this point, I
> have to say that I'm just not at all sure what your model really is.
> Perhaps you are making different assumptions about the current
> distribution...
>
> Also, if you still have the model around, try adding a top hat to the

> upper wire. For simplicity, you can just use a simple "T" structure,
> where the top horizontal wire is, say, five feet long total. With
> such a configuration, what's the current distribution along the
> radiating element going to be?
>
> Of course, what I'm suggesting here is that one must be careful to
> test ones models at corner cases before putting too much faith in
> them, and even then, one must always be wary of cases where the model
> may go awry.
>
> Cheers,
> Tom

3009. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:49:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <250Ol.18897$8_3.16375@flpi147.ffdc.sbc.com>
Source record: 15633

Richard Clark wrote:
> If Cecil every gets over this intellectual
> pebble in the path, please quote it so that I can see how much strain
> that ascent took.

What you don't seem to realize is that the loaded
antenna can be assumed to be lossless in free space
with a 4-wire radial ground plane and the E-fields
and H-fields are within 10% of their real-world
values, i.e. you are complaining about relatively
small secondary effects.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3010. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:50:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ds3h05pja5igli7ftmfap9fgtofliq2c4g@4ax.com>
Source record: 15634

On Mon, 11 May 2009 11:35:41 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>doubling is possible.")?

No.

73's
Richard Clark, KB7QHC

3011. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 20:56:41 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Db0Ol.18898$8_3.13414@flpi147.ffdc.sbc.com>
Source record: 15635

Cecil Moore wrote:
> What you don't seem to realize is that the loaded
> antenna can be assumed to be lossless in free space
> with a 4-wire radial ground plane and the E-fields
> and H-fields are within 10% of their real-world
> values, i.e. you are complaining about relatively
> small secondary effects.

As far as conditions on the antenna are concerned,
you are complaining about relatively small
secondary effects. Of course, there are large
effects on radiation and ground loss, but those
items are not the subject of this discussion.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3012. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 21:08:53 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <j94h05lhgifrg5nj474ctl7524ka7adb7c@4ax.com>
Source record: 15637

On Sat, 09 May 2009 19:32:57 -0700, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>I beg to differ. Microsoft bashing seems to be the national sport in
>computers.

It wasn't a sport that was invented for Microsoft, however. They came
by it honestly.

>Yet, they're the most successful computah company in
>history.

Arthur Anderson had the same reputation for bookkeeping; GM for
building cars; GOP for ... well that's Noah's flood under the bridge.

>In addition, they did it without any ties to proprietary
>hardware.

Never heard of the IBM PC?

>They must be doing something right.

This would only provoke the enumeration of companies listed above.

>In my never humble opinion, 99% or more of what MS releases is done
>correctly and works well. The 1% that doesn't is what we're all
>complaining about.

99% is actually pretty abysmal. Ma Bell could rightfully claim 5 9s
(99.999%) for service generations ago. Software bugs that 1% of your
user base encounters are evidence of incredible sloppiness.

Having to guess (before you break the seal) which 1% is broken is like
playing Russian roulette ever day for a year - and hoping to live to
Christmas.

73's
Richard Clark, KB7QHC

3013. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 21:09:29 UTC
From: google@karinya.net
Message-ID: <52cb4808-6f58-4932-8095-ff7d29ca6119@21g2000vbk.googlegroups.com>
Source record: 15636

Hi Richard,

I wont even attempt to answer the "intimidating" questions - they're
far too tough for me!

But just a couple of comments:

1) The change in coil size when I swapped from a base-loaded to a mid-
loaded model was nothing more than a convenience to reduce the total
number of segments and reduce the computation time. It was not borne
out of any electrical considerations, so please don't read anything
more than that into it. In retrospect it was a silly thing to do
because it has probably introduced a "red herring".

2) You suggest that the Corum method has little utility. However, the
inductance calculator based on the method appears to give usefully
accurate predictions of "equivalent lumped reactance" and SRF (jury
still out on that one). If that calculator was not available, it seems
to me that designing a coil for something like a mobile whip loading
application would require tedious iterations of the helix generator in
EZNEC.

73,
Steve G3TXQ

On May 11, 9:19 pm, Richard Clark <kb7...@comcast.net> wrote:
>
> Hi Steve,
>
> I don't often drop into this side-thread as the topic had drifted into
> a stagnated intellectual backwater.
>
> On this and one prior posting by you:
>
> >On Sat, 9 May 2009 13:56:31 -0700 (PDT), goo...@karinya.net wrote:
> >>OK, I tried what you suggested. I put my loading coil midway up a 20ft
> >>vertical wire in the EZNEC model. I reduced the number of turns to
> >>lift the resonant frequency to 5.6MHz.
>
> I note how little Corrum really has to offer when you had to take the
> same:>effective electrical length of the coil (38.83 degrees)
>
> and change it (to the same effective electrical length? I think not.)
> to fit the same available wire, at the same specific frequency - only
> at a different height along the available wire.
>

> By my quick read on the stale crisis of current "fall-off" and proving
> Corum by EZNEC; it seems quite apparent that EZNEC (the authority) is
> driving the coil requirements which are then force fitted by Corum's
> inappropriate application.
>
> After all, Corum says nothing of:
> 1. Application;
> 2. Base loading;
> 3. Mid or Top loading;
> 4. Stinger selection;
> and yet all solutions seem to derive from their math with the elegance
> of an ad-hoc "missing degrees" provision (that is quickly discarded as
> shown above when current becomes the focus).
>
> Corum DOES say that the formula is only applicable for certain
> constraints which I note are NEVER observed in the application nor the
> breach. All of the commentary proceeds through equation (32) when
> every argument is an instance of equation (31).
>
> How much are you willing to accept of that paper (which is another way
> of asking how much you are willing to discard)?
>
> I will ask one ace-buster question that I expect no one will answer:
>   Show me the computation for M (= tau · a)
> which would be appropriate for the NON-quarterwave resonance of the
> coil in question at 3.85 MHz.
>
> For extra credit:
> 1. What is the wave number, k for 3.85 MHz?
> 2. What is the phase velocity for the original (not changed) coil?
> 3. What is tau for the original (not changed) coil at 3.85 MHz?
>
> Yes, this is intimidating to ask; but seeing there are so many
> authorities on Corum; and that these considerations would have been
> done by the authors themselves; then their solutions must reside
> somewhere in notes or as marginalia for quick reporting (or could be
> summoned up through running through the same math as before).
>
> 73's
> Richard Clark, KB7QHC

3014. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 21:25:01 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <v85h055bb1upstfm20kf0tmh66nfjrvmsf@4ax.com>
Source record: 15638

On Mon, 11 May 2009 19:21:32 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>You are to speedy. Look at the original Hertz experiment:
>http://people.seas.harvard.edu/~jones/cscie129/nu_lectures/lecture6/hertz/Hertz_exp.html

Poor citation to include broken links and missing material.

>There is: "According to theory, if electromagnetic waves were spreading from
>the oscillator sparks, they would induce a current in the loop that would
>send sparks across the gap"

If? If is wrong.

>In EM waves are produced by the current (oscllator sparks in the Hertz
>apparatus). One cycle is completed when the current flow to and fro.

You say this often, but it adds nothing important.

>But there is possible the other theory. Electric waves are spreading from
>the ends (plates or big balls in Hertz apparatus).

This is not ANOTHER theory. Your first "If" is not a theory at all.
It is an incorrect statement surrounded by poor writing. It is like
this next statement:

>Now we know that
>electrons have mass and are compressible.

Nonsense.

>So at the ends appear and
>disappear the huge charges. In that case an electric impulse is send when
>the current flows to (from one end) , and the next when the current flows
>fro (from the other end).

Nonsense.

>So in one EM cycle are the two electric cycles.

Nonsense.

>So the frequency is not doubled. The electric is twice more.

This is either very poor English, or more nonsense.

>Does your measurements distinguish radiation from the spakrks from that from
>the plates?
>S*

Of course they do. More the question: can you measure them too? If you cannot, then this explains the nonsense.

73's
Richard Clark, KB7QHC

3015. Re: Antenna modeling software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 21:38:09 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <c86h05p9oo7bi0g0pecg9fv5u2eb28n30u@4ax.com>
Source record: 15639

On 11 May 2009 20:42:45 +0100, Gordon <gonzo@alltomyself.com> wrote:

>I have seen a few antenna modeling programs mentioned here.
>Is there any concensus within the group on which one is
>better to use?

Hi Gordon,

Use NEC.

>Any that are free?

What is your pain worth?

>- Consider that I am pretty much a beginner when it
>comes to antennas.

Then use the one most mentioned among a group of people who regularly exchange their work and discuss their results. I won't be coy, it is called EZNEC. However, that is not the last word in recommendations.

>- I am intrested in modeling receiving antennas in the
>UHF and VHF bands.

Receiving and transmitting are merely the difference of the PTT button.

>- My big point of couriosity right now is reflectors.
>I want to see the effects of various wires, rods, screens,
>foil, etc.

This would demand a modeler with the ability to work with a large number of "segments." Don't go there until you can build a dipole and understand how it works in free space, over ground, and across three orders of frequency change. If you do this first on a simple, cheap or free modeler; then you will be better educated in what you need in a tool, and how much to spend if it comes to that.

>I suppose that I could pepper the group with questions.
>But, at some point it's best to do my own damn research.

Good for you for saying that; but rest assured you still will pepper the group with questions. This is not a past-time that fades over the weekend.

73's
Richard Clark, KB7QHC

3016. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 21:56:18 UTC
From: google@karinya.net
Message-ID: <3534496f-46c3-4eac-9770-faff36fc7bce@v4g2000vba.googlegroups.com>
Source record: 15640

Tom,

One further puzzling feature:

When I look at the EZNEC currents in the bottom 10ft of my 20ft mid-loaded model there is *NO* current reduction from bottom to top: 1A at the bottom and 0.99996A at the junction with the coil. So no evidence of a cosine shape starting at the bottom.

Brain hurts - time for bed!

73,
Steve G3TXQ

3017. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 22:18:14 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Gu1Ol.15508$jZ1.703@flpi144.ffdc.sbc.com>
Source record: 15641

google@karinya.net wrote:
> When I look at the EZNEC currents in the bottom 10ft of my 20ft mid-
> loaded model there is *NO* current reduction from bottom to top: 1A at
> the bottom and 0.99996A at the junction with the coil. So no evidence
> of a cosine shape starting at the bottom.

In many center-loaded antennas, the current increases
from the feedpoint through the base section to the
bottom of the coil. Converting that non-cosine current
into an equivalent cosine current with the proper
phasing/delay may take some doing. I don't know of
anyone who has accomplished that feat so far. However,
it would be a very useful algorithm.

One way to do such would be to compare the current in
an ideal transmission line with the current through
the loading coil as reported by EZNEC.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3018. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 22:19:19 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <a07h05ple9q5f5o1r5sm1rjl7aqrpvojtr@4ax.com>
Source record: 15642

On Mon, 11 May 2009 14:09:29 -0700 (PDT), google@karinya.net wrote:

>Hi Richard,
>
>I wont even attempt to answer the "intimidating" questions - they're
>far too tough for me!

Hi Steve,

That's OK. Even the Corums didn't answer them and it accounts for the rather thin material being leveraged into the new-age science we get discussed here.

>But just a couple of comments:
>
>1) The change in coil size when I swapped from a base-loaded to a mid-
>loaded model was nothing more than a convenience to reduce the total
>number of segments and reduce the computation time. It was not borne
>out of any electrical considerations, so please don't read anything
>more than that into it. In retrospect it was a silly thing to do
>because it has probably introduced a "red herring".

It is only a "red herring" if you were intent on mischief. If you were, you are surrounded by accolytes better versed than you.

However, silly or otherwise, it doesn't answer the intent of the question. The coil size doesn't change by segment count, but by wire count, diameter, turns per inch, length. If any of those changed along with number of segments, then you haven't really done anything but compared two arbitrary designs to discover they don't match.

What profit in that? (and why did we branch the topic?)

Or they do!

What is to be learnt that this illustrates? (and why did we branch the topic?)

>2) You suggest that the Corum method has little utility. However, the
>inductance calculator based on the method appears to give usefully
>accurate predictions of "equivalent lumped reactance" and SRF (jury
>still out on that one). If that calculator was not available, it seems
>to me that designing a coil for something like a mobile whip loading
>application would require tedious iterations of the helix generator in
>EZNEC.

That is an objection, not a reason, and very far from a discipline (Corum vs. the world).

What I asked is, if you use Corum (against its provisos) to obtain a value (fully acknowledged to be erroneous when the provisos are met, they aren't), for applications that contain considerations that the Corums do not contemplate, AND you use another tool to validate the answer - why is it that you wonder on the happenstance of correlation? This puzzlement is enough to suggest Corum may bring grief unexpectedly. Does this make the muddy prospects of its utility clearer?

Still and all, this side-topic is still stuck at the gate to your buying the farm. Skip the coyness by subscribing to Corum and let Cecil introduce you to new vistas where these missing degrees will suddenly emerge again. When that happens, all that is required is that you suspend your doubt that if that coil at the base of a fixed height antenna were moved, it would fulfill resonating that fixed height antenna with the same number of Corum "electrical degrees" in migration. If Corum "electrical degrees" have to be augmented with appended theory (diluting the original's importance to elevate the appendix, as it were); then I would ask again: Does this make the muddy prospects of its utility clearer?

Yes, Steve, I can full well appreciate that you wouldn't necessarily expect the same coil to resonate the same, short antenna every where you happened to place that coil along its fixed length. But this side-thread isn't going to get any traction until you go with Cecil's flow (which will undoubtedly swirl into another stagnation at this point of my observation).

73's
Richard Clark, KB7QHC

3019. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 22:45:57 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <eb45eed6-812b-4ae2-ad58-741abeeaced4@t10g2000vbg.googlegroups.com>
Source record: 15643

On May 11, 2:09 pm, goo...@karinya.net wrote:
> Hi Richard,
>
> I wont even attempt to answer the "intimidating" questions - they're
> far too tough for me!
>
> But just a couple of comments:
>
> 1) The change in coil size when I swapped from a base-loaded to a mid-
> loaded model was nothing more than a convenience to reduce the total
> number of segments and reduce the computation time. It was not borne
> out of any electrical considerations, so please don't read anything
> more than that into it. In retrospect it was a silly thing to do
> because it has probably introduced a "red herring".
>
> 2) You suggest that the Corum method has little utility. However, the
> inductance calculator based on the method appears to give usefully
> accurate predictions of "equivalent lumped reactance" and SRF (jury
> still out on that one). If that calculator was not available, it seems
> to me that designing a coil for something like a mobile whip loading
> application would require tedious iterations of the helix generator in
> EZNEC.
>
> 73,
> Steve G3TXQ

For what it's worth, I've been using a coil program for quite a few years now that is able to calculate the performance of a coil based on a helical transmission line model. It was developed out of travelling wave tube theory. It turns out I discovered a bug in the program and reported it to the author, who very kindly corrected it. I've come to trust it to come up with answers that are very useful in an engineering sense. I would not expect it to tell me inductance or other parameters (e.g., first parallel self resonance and first series self resonance) accurately enough to be used as a precision lab standard, but that's not what I use the program for.

When I became aware of the HamWaves web page, I was curious about how well its answers compared with the ones I'd become used to trusting. They do differ a little, but again, for what I do with them, I trust them both. Either one will provide results I can use to wind a coil for a filter and know I won't have to much to adjust the coil to being "right on." And in fact, I also found a very small bug (or at least an anomaly or inconsistency) in the HamWaves calculation, and reported that to Serge, who likewise very graciously acknowledged it and who I

believe corrected it.

So I'd strongly support your thought that the HamWaves calculator provides useful results. Understand that they won't be perfect, but also understand that you may have trouble making measurements accurate enough to know how much they are in error. But for almost everything I do with coils, what I care about is whether the filter or tank circuit or antenna in which the coil is used actually works like I want. My trust in these programs comes from being able to build a lot of filters over the years that all work like I designed them to work, with very little effort to tweak the coils I built per the programs' predictions. I'll adjust my expectations if I ever find cases where the programs lead me astray.

Cheers,
Tom

3020. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 23:02:11 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <S72Ol.32986$ZP4.10016@nlpi067.nbdc.sbc.com>
Source record: 15644

K7ITM wrote:
> So I'd strongly support your thought that the HamWaves calculator
> provides useful results.

So who are we to believe? W8JI's 3 nS delay measurements through
a large 75m loading coil, or the HamWaves 21.5 nS prediction?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3021. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 23:08:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <972Ol.18902$8_3.756@flpi147.ffdc.sbc.com>
Source record: 15645

Richard Clark wrote:
> When that happens, all that is required is
> that you suspend your doubt that if that coil at the base of a fixed
> height antenna were moved, it would fulfill resonating that fixed
> height antenna with the same number of Corum "electrical degrees" in
> migration.

Using standard stub theory and transmission lines,
I have shown how moving parts of dual-Z0 stubs from
one place to another requires a change in the length
of parts of the stub.

Why do you have such difficulty applying this standard
transmission line theory to loading coils? Could it be
that you are dismissing technical facts because you
are incapable of understanding them? If so, you have
lots of company down through history.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3022. Re: Antenna modeling software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 23:10:12 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <guab8j$738$2@news.jpl.nasa.gov>
Source record: 15501

Richard Clark wrote:
> On 11 May 2009 20:42:45 +0100, Gordon <gonzo@alltomyself.com> wrote:
>
>> I have seen a few antenna modeling programs mentioned here.
>> Is there any concensus within the group on which one is
>> better to use?
>
> Hi Gordon,
>
> Use NEC.
>
>> Any that are free?
>
> What is your pain worth?
>
>> - Consider that I am pretty much a beginner when it
>> comes to antennas.
>
> Then use the one most mentioned among a group of people who regularly
> exchange their work and discuss their results. I won't be coy, it is
> called EZNEC. However, that is not the last word in recommendations.

4nec2 also has it's adherents as a front end.

Both are basically good front/back ends to the core NEC engine.

>
>> - I am intrested in modeling receiving antennas in the
>> UHF and VHF bands.

Good.. so you're not looking for handling dielectrics, soil, etc.
Mostly free space models of purely conductors.

Remember that NEC works best with things described as collections of
wires (of various diameters, etc.).

It's not so hot with things like patches, dish reflectors, etc. (except
by modeling them as grids of wires).

3023. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 23:25:22 UTC
From: Dave <noone@nowhere.com>
Message-ID: <Ct2Ol.551$wR5.152@nwrddc02.gnilink.net>
Source record: 15646

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gu9dvahkq1@node1.news.atman.pl...
>
> "Dave" <noone@nowhere.com> wrote
> news:9wFNl.389$5F2.210@nwrddc01.gnilink.net...
>>
>> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>> news:gu6q0o$61m$1@node1.news.atman.pl...
>>>
>>> I am not fluent in English. So try to understand.
>>> The electrons (they have mass and inertia) colect in one end and next
>>> disappear. It is the one cycle. Next they travel to the other end. It
>>> takes time. So in space are send the two signals.(in one your cycle).
>>> In the same time 9Your cycle) the current flow to and fro.
>>> In unverified EM the current cause the spherical wave. In reality the
>>> ends.
>>> Only Your simple measurements can verify it.
>>> S*
>> i have made my simple measurements, the frequency is not doubled by the
>> antenna.
>
> You are to speedy. Look at the original Hertz experiment:
> http://people.seas.harvard.edu/~jones/cscie129/nu_lectures/lecture6/hertz/Hertz_exp.html
>
> There is: "According to theory, if electromagnetic waves were spreading
> from
> the oscillator sparks, they would induce a current in the loop that would
> send sparks across the gap"
>
> In EM waves are produced by the current (oscllator sparks in the Hertz
> apparatus). One cycle is completed when the current flow to and fro.
>
> But there is possible the other theory. Electric waves are spreading from
> the ends (plates or big balls in Hertz apparatus). Now we know that
> electrons have mass and are compressible. So at the ends appear and
> disappear the huge charges. In that case an electric impulse is send when
> the current flows to (from one end) , and the next when the current flows
> fro (from the other end). So in one EM cycle are the two electric cycles.
> So the frequency is not doubled. The electric is twice more.
>
> Does your measurements distinguish radiation from the spakrks from that
> from the plates?
> S*

I'm sorry, but i don't have a spark transmitter, those have been rather illegal for many years because of the extreme bandwidth and noise they generate. I use a nice clean sine wave so there is no harmonic generated. if you use a spark generator there will be many harmonics, but they come from the waveform being generated.

3024. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 23:28:04 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <Bp2Ol.18306$D32.7747@flpi146.ffdc.sbc.com>
Source record: 15647

Richard Clark wrote:

>
> Hi Tom,
>
> Thanx for the flowers. In point of fact, inductor and capacitor
> standards are shielded. They are three terminal devices. To remove
> the effects of the shield you drive it at the same potential (which is
> to say the shield is floating with respect to everything/one around
> it).
>
> For the practicality of things, Reggie was never very far off the mark
> and you following him as an exemplar is suitable to other's inventions
> of proximities that have no defining moment in their references.
>
> I can well guess the remainder of your method as it was well defined
> in most Ham manuals (derived from conventional EE methods) when I read
> up on it 40 odd years ago. If Cecil every gets over this intellectual
> pebble in the path, please quote it so that I can see how much strain
> that ascent took.
>
> 73's
> Richard Clark, KB7QHC

Hi Richard,
In point of fact, I just used a dip-meter-frequency-counter
combination to see if I could get somewhere near the results that
ON4AA's calculator suggested. Later, I cut the coil at its center point,
attached a cheap antenna analyzer there and looked for a frequency of
least impedance. The dip meter indicated about 8.93 Mhz and the analyzer
indicated 8.98 Mhz. I consider the closeness of the two readings to be
pure accident. However, they do reinforce each other in leading me to
believe that the Corum calculator has some serious deficiencies. Serious
enough, that those who claim its correctness should do some practical
investigation into its merits in order to spare themselves the jibes of
their more analytical brethren.
73,
Tom Donaly, KA6RUH

3025. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 23:41:31 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a08b760$0$18864$8046368a@newsreader.iphouse.net>
Source record: 15648

Richard Clark wrote:
<snip>
> 99% is actually pretty abysmal. Ma Bell could rightfully claim 5 9s
> (99.999%) for service generations ago. Software bugs that 1% of your
> user base encounters are evidence of incredible sloppiness.
>
<snip>
> 73's
> Richard Clark, KB7QHC

And those days are gone, but not the way you'd think. Current Ericsson cell switches in Europe run ERLANG, one of the successors of PLEX, and they are getting 11 9's or better.

ERLANG is a very interesting language and has been released as open source. See

http://erlang.org/

tom
K0TAR

3026. Re: Antenna modeling software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-11 23:45:52 UTC
From: John Ferrell <jferrell13@triad.rr.com>
Message-ID: <okdh051jn6r94qk48mlgbvl1qtsnt7uq9o@4ax.com>
Source record: 15649

On 11 May 2009 20:42:45 +0100, Gordon <gonzo@alltomyself.com> wrote:

>I have seen a few antenna modeling programs mentioned here.
>Is there any concensus within the group on which one is
>better to use? Any that are free?
>
>- Consider that I am pretty much a beginner when it
>comes to antennas.
>- I am intrested in modeling receiving antennas in the
>UHF and VHF bands.
>- My big point of couriosity right now is reflectors.
>I want to see the effects of various wires, rods, screens,
>foil, etc.
>
>I suppose that I could pepper the group with questions.
>But, at some point it's best to do my own damn research.
I like EZNEC.
There is a Demo program available at http://eznec.com/

3027. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 00:23:53 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <klfh05te3c6r2cvq1b0h47dbrk8a5srr2g@4ax.com>
Source record: 15502

On Mon, 11 May 2009 16:28:04 -0700, "Tom Donaly"
<dtdonaly@sbcglobal.net> wrote:

>Hi Richard,
> In point of fact, I just used a dip-meter-frequency-counter
>combination to see if I could get somewhere near the results that
>ON4AA's calculator suggested.

Hi Tom,

I wouldn't have expected any other method based on your "tease."
It answers the need for lightly coupling which responds to your
admonition of not presenting disturbances to the measurement. About
the only variation to this would be in how you could lighten up the
coupling further. I don't see Cecil struggling for the low fruit
here, so I'm not expecting to see him make this into a rum punch.

>Later, I cut the coil at its center point,
>attached a cheap antenna analyzer there and looked for a frequency of
>least impedance. The dip meter indicated about 8.93 Mhz and the analyzer
>indicated 8.98 Mhz. I consider the closeness of the two readings to be
>pure accident.

Pursuing an alternative method helps validate them both, another
hallmark of good bench work. That Steve finds two values that
correlate through software begs the question of what parameters were
used. As such, two in silicon against two at the bench - something's
got to give. The differences are not deep in the decimal places.

>However, they do reinforce each other in leading me to
>believe that the Corum calculator has some serious deficiencies. Serious
>enough, that those who claim its correctness should do some practical
>investigation into its merits in order to spare themselves the jibes of
>their more analytical brethren.

Tom subscribes to Corum (if I read his posts correctly), to the extent
of his needs. That seems sufficient for me, but it does not attach a
proof to the conjectures and it doesn't serve the glaring points by
the authors that their model works only with resonating coils (if I am
reading them correctly), or unless you derive your own M factor (no
one stepping up to the plate for that suggests they have no deep
interest in the topic). They allow roughly 10% error as it stands,
and I observe debates trying to leverage 5% positions.

73's
Richard Clark, KB7QHC

3028. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 00:26:43 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <fggh05hka46ik73b1muss0laoeuh1368f3@4ax.com>
Source record: 15503

On Mon, 11 May 2009 18:41:31 -0500, Tom Ring <news0004@taring.org>
wrote:

>ERLANG is a very interesting language and has been released as open
>source. See
>
>http://erlang.org/
>

Hi Tom,

Tell me more (a quick synopsis). My group has been working on the
Netflix Prize in Python.

73's
Richard Clark, KB7QHC

3029. Re: Thanks (DTV antenna)

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 00:47:48 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9C08AAD8E1060greederxprtnet@194.177.98.144>
Source record: 15650

Henry <wa0goz@arrl.net> wrote in news:gu9s9i$27c$1@news.motzarella.org:

> Gordon wrote:
>> Thanks for the advice on the DTV antenna. I managed to get
>> some improvement on it by properly dressing and managing
>> the leads. (I forgot who made that suggestion, sorry).
>>
>> You can see it at:
>> http://mysite.verizon.net/g_reeder/Content/DTV_antenna.html
>> Please don't laugh.
>
> Gordon
>
> Is the 7 inches measured from center to center of each bowtie or from
> the end of one bowtie to the end of the other?
>
> Thanks
>
> Henry
>

Center to center. Or top to top...
What I actually did was to make a mark on the dowl at
1 inch and 8 inches from the end. Then mount the bowties
at those locations. Lineing up the marks with the bottom
of the bowtie clip.

3030. spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 01:05:38 UTC
From: ml <m@di.net>
Message-ID: <m-8D8606.21053811052009@news.optonline.net>
Source record: 15504

sigh, yeah i've been waiting a really long time finally were are
due for the beginning of our '' next cycle and poof nuttn

at least not yet i am still hoping it's just a short delay

3031. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 01:08:53 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a08cc27$0$92356$8046368a@newsreader.iphouse.net>
Source record: 15505

Richard Clark wrote:
> On Mon, 11 May 2009 18:41:31 -0500, Tom Ring <news0004@taring.org>
> wrote:
>
>> ERLANG is a very interesting language and has been released as open
>> source. See
>>
>> http://erlang.org/
>>
>
> Hi Tom,
>
> Tell me more (a quick synopsis). My group has been working on the
> Netflix Prize in Python.
>
> 73's
> Richard Clark, KB7QHC

Quickly then.

ERLANG is a language made for highly reliable systems control.

It will run the same cooperative code on very different systems.

It will allow fully transparent failover between systems.

Programming to handle failover with no loss of control state or data
stream is central to the language design.

The systems using this for cell handling are claimed to be able to
handle the primary having catastrophic failure, switching to the
secondary, and not dropping a single byte of the stream.

The language was originally designed for telecom, but has had more
generic capabilities added.

I am not an expert nor even a newbie on this. I saw a a one hour talk
on it last late summer. I was expecting a presentation on statistics
and got something completely different.

I am getting back into programming just to tune my mind up, and this is
one of the languages I will be including.

tom
K0TAR

3032. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 01:29:45 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <ri4OI.26401$c45.19041@nlpi065.nbdc.sbc.com>
Source record: 15506

K7ITM wrote:
> On May 11, 2:09 pm, goo...@karinya.net wrote:
>> Hi Richard,
>>
>> I wont even attempt to answer the "intimidating" questions - they're
>> far too tough for me!
>>
>> But just a couple of comments:
>>
>> 1) The change in coil size when I swapped from a base-loaded to a mid-
>> loaded model was nothing more than a convenience to reduce the total
>> number of segments and reduce the computation time. It was not borne
>> out of any electrical considerations, so please don't read anything
>> more than that into it. In retrospect it was a silly thing to do
>> because it has probably introduced a "red herring".
>>
>> 2) You suggest that the Corum method has little utility. However, the
>> inductance calculator based on the method appears to give usefully
>> accurate predictions of "equivalent lumped reactance" and SRF (jury
>> still out on that one). If that calculator was not available, it seems
>> to me that designing a coil for something like a mobile whip loading
>> application would require tedious iterations of the helix generator in
>> EZNEC.
>>
>> 73,
>> Steve G3TXQ
>
> For what it's worth, I've been using a coil program for quite a few
> years now that is able to calculate the performance of a coil based on
> a helical transmission line model. It was developed out of travelling
> wave tube theory. It turns out I discovered a bug in the program and
> reported it to the author, who very kindly corrected it. I've come to
> trust it to come up with answers that are very useful in an
> engineering sense. I would not expect it to tell me inductance or
> other parameters (e.g., first parallel self resonance and first series
> self resonance) accurately enough to be used as a precision lab
> standard, but that's not what I use the program for.
>
> When I became aware of the HamWaves web page, I was curious about how
> well its answers compared with the ones I'd become used to trusting.
> They do differ a little, but again, for what I do with them, I trust
> them both. Either one will provide results I can use to wind a coil
> for a filter and know I won't have to much to adjust the coil to being
> "right on." And in fact, I also found a very small bug (or at least

> an anomaly or inconsistency) in the HamWaves calculation, and reported
> that to Serge, who likewise very graciously acknowledged it and who I
> believe corrected it.
>
> So I'd strongly support your thought that the HamWaves calculator
> provides useful results. Understand that they won't be perfect, but
> also understand that you may have trouble making measurements accurate
> enough to know how much they are in error. But for almost everything
> I do with coils, what I care about is whether the filter or tank
> circuit or antenna in which the coil is used actually works like I
> want. My trust in these programs comes from being able to build a lot
> of filters over the years that all work like I designed them to work,
> with very little effort to tweak the coils I built per the programs'
> predictions. I'll adjust my expectations if I ever find cases where
> the programs lead me astray.
>
> Cheers,
> Tom

Hi Tom,
A testimonial from you goes a long way toward building some
trust in ON4AA's coil calculator. I was concerned because I haven't seen
much in the way of empirical data to substantiate the claims made for
it. I would have thought that the creators would have at least provided
a link to some data, or to a description of their own coil-making efforts.
73,
Tom Donaly, KA6RUH

3033. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 01:45:24 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Ww4Ol.10218$im1.9797@nlpi061.nbdc.sbc.com>
Source record: 15507

Tom Donaly wrote:
> A testimonial from you goes a long way toward building some
> trust in ON4AA's coil calculator.

Testimonials do not make technical information true
or false. This technical information has been available
for the past 5-8 years.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3034. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 01:47:08 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <Ay4OI.22154$as4.17116@nlpi069.nbdc.sbc.com>
Source record: 15508

Richard Clark wrote:
> On Mon, 11 May 2009 16:28:04 -0700, "Tom Donaly"
> <dtdonaly@sbcglobal.net> wrote:
>
>> Hi Richard,
>> In point of fact, I just used a dip-meter-frequency-counter
>> combination to see if I could get somewhere near the results that
>> ON4AA's calculator suggested.
>
> Hi Tom,
>
> I wouldn't have expected any other method based on your "tease."
> It answers the need for lightly coupling which responds to your
> admonition of not presenting disturbances to the measurement. About
> the only variation to this would be in how you could lighten up the
> coupling further. I don't see Cecil struggling for the low fruit
> here, so I'm not expecting to see him make this into a rum punch.
>
>> Later, I cut the coil at its center point,
>> attached a cheap antenna analyzer there and looked for a frequency of
>> least impedance. The dip meter indicated about 8.93 Mhz and the analyzer
>> indicated 8.98 Mhz. I consider the closeness of the two readings to be
>> pure accident.
>
> Pursuing an alternative method helps validate them both, another
> hallmark of good bench work. That Steve finds two values that
> correlate through software begs the question of what parameters were
> used. As such, two in silicon against two at the bench - something's
> got to give. The differences are not deep in the decimal places.
>
>> However, they do reinforce each other in leading me to
>> believe that the Corum calculator has some serious deficiencies. Serious
>> enough, that those who claim its correctness should do some practical
>> investigation into its merits in order to spare themselves the jibes of
>> their more analytical brethren.
>
> Tom subscribes to Corum (if I read his posts correctly), to the extent
> of his needs. That seems sufficient for me, but it does not attach a
> proof to the conjectures and it doesn't serve the glaring points by
> the authors that their model works only with resonating coils (if I am
> reading them correctly), or unless you derive your own M factor (no
> one stepping up to the plate for that suggests they have no deep
> interest in the topic). They allow roughly 10% error as it stands,
> and I observe debates trying to leverage 5% positions.

>
> 73's
> Richard Clark, KB7QHC

Hi Richard,
And then there is Cecil. I was hoping I could crowd him
into slapping leather over this and get him to do some experimenting.
I should have known better.
73,
Tom Donaly, KA6RUH

(P.S. Excuse the shamefully unattributed extract from Shane.)

3035. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 02:12:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <DW4Ol.10219$im1.8450@nlpi061.nbdc.sbc.com>
Source record: 15509

Tom Donaly wrote:
> And then there is Cecil. I was hoping I could crowd him
> into slapping leather over this and get him to do some
> experimenting. I should have known better.

Sorry, first things first. I am a newlywed (Feb. 28) and
all my equipment is still packed in boxes after squeezing
into a new QTH. I am presently not even on the air.
I reported my experimental results years ago and was
satisfied with the results.

Hint: My experiments do not affect (or effect)
technical facts. Neither do your beliefs or anyone's
testimonials. Those technical facts have been staring
you in the face for 5+ years now. What have you been
doing for the past 5 years - anything except ad hominem
attacks?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3036. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 02:22:38 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <925fcdd7-e398-4d28-9531-c461b5cf4fbb@g31g2000pra.googlegroups.com>
Source record: 15510

On May 11, 6:29 pm, "Tom Donaly" <dtdon...@sbcglobal.net> wrote:
> K7ITM wrote:
> > On May 11, 2:09 pm, goo...@karinya.net wrote:
> >> Hi Richard,
>
> >> I wont even attempt to answer the "intimidating" questions - they're
> >> far too tough for me!
>
> >> But just a couple of comments:
>
> >> 1) The change in coil size when I swapped from a base-loaded to a mid-
> >> loaded model was nothing more than a convenience to reduce the total
> >> number of segments and reduce the computation time. It was not borne
> >> out of any electrical considerations, so please don't read anything
> >> more than that into it. In retrospect it was a silly thing to do
> >> because it has probably introduced a "red herring".
>
> >> 2) You suggest that the Corum method has little utility. However, the
> >> inductance calculator based on the method appears to give usefully
> >> accurate predictions of "equivalent lumped reactance" and SRF (jury
> >> still out on that one). If that calculator was not available, it seems
> >> to me that designing a coil for something like a mobile whip loading
> >> application would require tedious iterations of the helix generator in
> >> EZNEC.
>
> >> 73,
> >> Steve G3TXQ
>
> > For what it's worth, I've been using a coil program for quite a few
> > years now that is able to calculate the performance of a coil based on
> > a helical transmission line model. It was developed out of travelling
> > wave tube theory. It turns out I discovered a bug in the program and
> > reported it to the author, who very kindly corrected it. I've come to
> > trust it to come up with answers that are very useful in an
> > engineering sense. I would not expect it to tell me inductance or
> > other parameters (e.g., first parallel self resonance and first series
> > self resonance) accurately enough to be used as a precision lab
> > standard, but that's not what I use the program for.
>
> > When I became aware of the HamWaves web page, I was curious about how
> > well its answers compared with the ones I'd become used to trusting.
> > They do differ a little, but again, for what I do with them, I trust
> > them both. Either one will provide results I can use to wind a coil
> > for a filter and know I won't have to much to adjust the coil to being

> > "right on." And in fact, I also found a very small bug (or at least
> > an anomaly or inconsistency) in the HamWaves calculation, and reported
> > that to Serge, who likewise very graciously acknowledged it and who I
> > believe corrected it.
>
> > So I'd strongly support your thought that the HamWaves calculator
> > provides useful results. Understand that they won't be perfect, but
> > also understand that you may have trouble making measurements accurate
> > enough to know how much they are in error. But for almost everything
> > I do with coils, what I care about is whether the filter or tank
> > circuit or antenna in which the coil is used actually works like I
> > want. My trust in these programs comes from being able to build a lot
> > of filters over the years that all work like I designed them to work,
> > with very little effort to tweak the coils I built per the programs'
> > predictions. I'll adjust my expectations if I ever find cases where
> > the programs lead me astray.
>
> > Cheers,
> > Tom
>
> Hi Tom,
>   A testimonial from you goes a long way toward building some
> trust in ON4AA's coil calculator. I was concerned because I haven't seen
> much in the way of empirical data to substantiate the claims made for
> it. I would have thought that the creators would have at least provided
> a link to some data, or to a description of their own coil-making efforts.
> 73,
> Tom Donaly, KA6RUH

Well, I'm flattered, but I'd invite you and anyone else here who might build coils for practical purposes to report back how that calculator, or any other, worked for them. The homebrew newsgroup might be a better place to do that. And if you think you've come up with a situation where any calculator seems significantly in error, don't be shy about reporting it to the author or maintainer of the calculator. I've found most to be quite happy to hear about bugs, especially if they are well documented, if they are told in a nice way.

I tend to not push the limits on coil calculations, because I know that I'll get the best volumetric efficiencies with coils over a relatively small range of diameter-to-length ratios, and for air-core solenoid RF coils used between a couple MHz and a few hundred MHz, I know what physical size I'll need for any particular required Qu. So you very well may find cases of more extreme D:L ratios where a calculator I've learned to trust isn't so hot -- and honestly, I'd love to know about such limits.

Cheers,
Tom

Cheers,
Tom

3037. Re: Antenna modeling software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 03:16:36 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <ecph05h1in88ol7ibqjip5eb2m0no0hm92@4ax.com>
Source record: 15511

On 11 May 2009 20:42:45 +0100, Gordon <gonzo@alltomyself.com> wrote:

>I have seen a few antenna modeling programs mentioned here.
>Is there any concensus within the group on which one is
>better to use?

Hah. I don't think there's anything this group agrees upon. There
are often as many opinions as there are participants.

>Any that are free?

Yep. I use 4NEC2 (because I'm cheap). Lots of examples included for
learning and plagerization.
<http://home.ict.nl/~arivoors/>
be sure to get both the default version and 3D extensions. Examples
of some of my output at:
<http://802.11junk.com/jeffl/antennas/>

Another freebee is CocoaNEC for the Mac.
<http://homepage.mac.com/chen/w7ay/cocoaNEC/>

Yet another free program:
<http://mmhamsoft.amateur-radio.ca/mmana/>

The free demo version of EZNEC works nicely for simple antennas. There
are also demos for some rather expensive commercial packages, that are
suitable for tinkering and learning.

There are others at the bottom of:
<http://en.wikipedia.org/wiki/Numerical_Electromagnetics_Code>
and in:
<http://www.si-list.net/swindex.html> (old but worth reading)
More:
<http://www.dxzone.com/catalog/Software/Antenna_analysis/>

>- Consider that I am pretty much a beginner when it
>comes to antennas.

Learn by Destroying. Design, model, build, test, redesign, repeat.

>- I am intrested in modeling receiving antennas in the
>UHF and VHF bands.
>- My big point of couriosity right now is reflectors.
>I want to see the effects of various wires, rods, screens,
>foil, etc.

You'll probably need to convert your surfaces to a wire grid (mesh).
4NEC2 includes a wire mesh generator called a "geometry builder". Some

examples:
<http://www.softpedia.com/progScreenshots/4nec2-Screenshot-110359.html>

>I suppose that I could pepper the group with questions.
>But, at some point it's best to do my own damn research.

Most basic questions can be answered with RTFM and Learn by
Destroying. Please make a few mistakes on your own before asking.

--
Jeff Liebermann 150 Felker St #D Santa Cruz CA 95060
831-336-2558 jeffl@comix.santa-cruz.ca.us
http://802.11junk.com jeffl@cruzio.com
http://www.LearnByDestroying.com AE6KS

3038. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 03:59:29 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <060e3614-90a0-435d-94b0-1f7a59f58dd0@21g2000vbk.googlegroups.com>
Source record: 15512

On May 8, 4:51 am, Szczepan Białek <sz.bia...@wp.pl> wrote:
> It seems that at long distances should appear the phenomenon of frequency
> doubling.
> See:http://www.rp-photonics.com/frequency_doubling.html
>
> Is such?
> S*

Your reference seems to explain what you are asking very well.
Distance is not mentioned as a factor.

JImmie

3039. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 07:56:18 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gub174pmc1@node1.news.atman.pl>
Source record: 15513

"Richard Clark" <kb7qhc@comcast.net> wrote
news:v85h055bb1upstfm20kf0tmh66nfjrvmsf@4ax.com...
> On Mon, 11 May 2009 19:21:32 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>
>>Now we know that
>>electrons have mass and are compressible.
>
> Nonsense.

Millikan measured it in XIX centuary. Latelly Wim wrote: "Hello Szczepan,

You are right, charge is compressible. The charge that is required to
charge (for example) a sphere seems to break the coninuity equition as
is used for incompressible fluid in hydraulics".
>
>>So at the ends appear and
>>disappear the huge charges. In that case an electric impulse is send when
>>the current flows to (from one end) , and the next when the current flows
>>fro (from the other end).
>
> Nonsense.

I was told that the electrons want to escape from the ends of a dipole (
balls are a remedy).
>
>>So in one EM cycle are the two electric cycles.
>
> Nonsense.
>
>>So the frequency is not doubled. The electric is twice more.
>
> This is either very poor English, or more nonsense.

Let assume that something is radiated from the end when the charge
(compressed electrons) appears. There are the two ends. How many pulses will
be send in space ?
>
>>Does your measurements distinguish radiation from the spakrks from that
>>from
>>the plates?
>>S*
>
> Of course they do. More the question: can you measure them too?

No. The only instrument I have is the comb. But it was enough to verify the second meaning of word "polarisation". Everywhere is written that a charged comb attract a stream of water. And that it is caused by polarisation.
It is caused by electrostriction. Decreasing E-field deform water stream. Of course the electrostriction is caused by the polarisation of H2O particles.
Charged comb do not attract water drops.

> If you cannot, then this explains the nonsense.

Something is radiated from the ends of the dipole. Can you detect it?
S*

3040. Re: Radial straight down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 12:52:37 UTC
From: Tim Shoppa <shoppa@trailing-edge.com>
Message-ID: <812aec5d-d033-4d4e-8277-9f9712b58557@t10g2000vbg.googlegroups.com>
Source record: 15514

On May 11, 8:23 am, "Richard" <nearlynews_em...@ntlworld.com> wrote:
> Has anyone ever bored a hole into the ground and dangled a radial or
> counterpoise down it instead of burying a radial 6" horizontally under the
> ground or stringing out a counterpoise?
>
> Any promise in doing this? Or is it a non-starter?

Letter from June 1949 QST:

Dear Editor: I have followed with great interest your articles and correspondence on underground antennas.

I tried several directive beams buried in four feet of moist earth. After several reports from various hams I found I had no more power than with the old skywire. I dug deeper - even tried rhombics - but reports were still the same ('Nice sig, OM, but some guy in California has 10kw right on you.')!!! I consulted the old faithful ARRL Handbook and decided to try a multiple-wavelength vertical on ten meters.

I did not have to look far for a suitable antenna site. We have a 200-foot well right in our basement. I hooked a variometer to the final tank and from same connected a No. 6 stranded wire to a pipe running into the well.

I was delighted to raise a C2 in Hankow, China, on my first CQ. Chinese stations were heard that pinned the S-meter on the receiver.

I soon discovered that all I could work were Chinese amateurs. Now wouldn't this bear out the Handbook theory that 'the more wavelengths an antenna has, the more it tends to radiate straight off the end'? - W7LLE

3041. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 14:44:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <9d2j05holiifgu667j6ar4eit8caimovmq@4ax.com>
Source record: 15515

On Tue, 12 May 2009 09:56:18 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>
> "Richard Clark" <kb7qhc@comcast.net> wrote
>news:v85h055bb1upstfm20kf0tmh66nfjrvmsf@4ax.com...
>> On Mon, 11 May 2009 19:21:32 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
>> wrote:
>>
>>
>>>Now we know that
>>>electrons have mass and are compressible.
>>
>> Nonsense.
>
>Millikan measured it in XIX centuary. Latelly Wim wrote: "Hello Szczepan,
>
>You are right, charge is compressible. The charge that is required to
>charge (for example) a sphere seems to break the coninuity equition as
>is used for incompressible fluid in hydraulics".

Now we are into utter nonsense.

>>>So at the ends appear and
>>>disappear the huge charges. In that case an electric impulse is send when
>>>the current flows to (from one end) , and the next when the current flows
>>>fro (from the other end).
>>
>> Nonsense.
>
>I was told that the electrons want to escape from the ends of a dipole (
>balls are a remedy).

Then you were told nonsense. At least study something with accurate
fundamentals.

>Let assume that something is radiated from the end

This alone explains why you have a very poor understanding of the
dynamics. An antenna radiates in ALL directions from EVERYPOINT of
the antenna. No one has to make special "assumptions" that are
limiting and with the appearance of being special knowledge.

>when the charge
>(compressed electrons) appears. There are the two ends. How many pulses will
>be send in space ?

Radiation is not pulses.

>>>Does your measurements distinguish radiation from the spakrks from that
>>>from
>>>the plates?
>>>S*
>>
>> Of course they do. More the question: can you measure them too?
>
>No.

Then you have very limited resources and absolutely no basis for
discussion of the topic.

>The only instrument I have is the comb. But it was enough to verify the
>second meaning of word "polarisation".

That adds nothing to the topic except you are working at very crude
levels with very limited knowledge about a vastly more complex issue.
>
>> If you cannot, then this explains the nonsense.
>
>Something is radiated from the ends of the dipole. Can you detect it?

I already said I could, and you said you couldn't. Why do you ask
again?

73's
Richard Clark, KB7QHC

3042. Re: Antenna modeling software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 14:51:51 UTC
From: Frank <ve6cbxyz@nospam.telus.net>
Message-ID: <b2gOl.27772$PH1.5440@edtnps82>
Source record: 15516

"Gordon" <gonzo@alltomyself.com> wrote in message
news:Xns9C08772157FF4greederxprtnet@194.177.98.144...
>I have seen a few antenna modeling programs mentioned here.
> Is there any concensus within the group on which one is
> better to use? Any that are free?
>
> - Consider that I am pretty much a beginner when it
> comes to antennas.
> - I am intrested in modeling receiving antennas in the
> UHF and VHF bands.
> - My big point of couriosity right now is reflectors.
> I want to see the effects of various wires, rods, screens,
> foil, etc.
>
> I suppose that I could pepper the group with questions.
> But, at some point it's best to do my own damn research.
>

I would recomend reading both the following books:

http://www.antennex.com/Sshack/tutorials/book2/tutorial2.htm

Frank

3043. Re: Super Antenna thumbscrew

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 15:44:16 UTC
From: Tim Shoppa <shoppa@trailing-edge.com>
Message-ID: <cf05438b-5082-42fd-b72c-dc2b5c07376f@o20g2000vbh.googlegroups.com>
Source record: 15517

On May 10, 2:18 pm, Al Fansome <al_fans...@hotmail.com> wrote:
> My Super Antenna MP-1 blew over today, and the plastic thumbscrew broke
> off. Does anyone know where I might find such a part? I've written to
> the guy who makes them, but I've tried that before when other parts have
> broken, and he doesn't respond. Any help would be appreciated.

http://www.mcmaster.com/#plastic-thumb-screws

Tim.

3044. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 16:00:09 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gubti6$u4t$1@node1.news.atman.pl>
Source record: 15518

"Richard Clark" <kb7qhc@comcast.net>
news:9d2j05holiifgu667j6ar4eit8caimovmq@4ax.com...
> On Tue, 12 May 2009 09:56:18 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>>
>
>>The only instrument I have is the comb. But it was enough to verify the
>>second meaning of word "polarisation".
>
> That adds nothing to the topic except you are working at very crude
> levels with very limited knowledge about a vastly more complex issue.

The topics is polarisation. This word has the two meaning. The both have wrong explanations in texbooks. The one I have verified with the comb. The second "wave polarisation" is explained with transverse waves. No transverse waves. If receiver (resonator) must be parallel to emmiter you can explain it in many ways. But to verify it the comb is not enough. So I need help.

>>> If you cannot, then this explains the nonsense.
>>
>>Something is radiated from the ends of the dipole. Can you detect it?
>
> I already said I could, and you said you couldn't. Why do you ask
> again?

I hope that somebody else reads us.
S*

3045. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 16:22:50 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <c38j05tbi5eqp066aaclmnnrci3p63q1hc@4ax.com>
Source record: 15519

On Tue, 12 May 2009 18:00:09 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>The topics is polarisation. This word has the two meaning. The both have
>wrong explanations in texbooks. The one I have verified with the comb.
>The second "wave polarisation" is explained with transverse waves. No
>transverse waves. If receiver (resonator) must be parallel to emmiter you
>can explain it in many ways. But to verify it the comb is not enough. So I
>need help.
>

That is fair. Let's start with some serious misunderstandings with a
few questions to test them.

First, let us return to that link you offered with the Hertzian Loop
with its spark gap. Let us say that this loop is 1 meter of wire
(about the actual size anyway). Let us say there is a current
detector at each end of this loop. Let us say we have closed a switch
that applies voltage to the loop, and the first meter has indicated
current flow. This is our time reference point. Now the questions:

1. For the electron that went through the first current detector, how
long does it take for that SAME electron to get to the second
detector?

2. How long does it take for the second detector to indicate there is
current flow?

Hint: the answer for 1. is very, very different for the answer for 2.

Now, let us say that before that SAME electron gets to the second
current detector, that path is broken open (maybe 1 pico second before
the SAME electron arrival). The SAME electron sees an open circuit.
What is the amount of energy required for the electron to break out of
the metal conductor, and into the air?

73's
Richard Clark, KB7QHC

3046. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 19:29:31 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guc9qlvup1@node1.news.atman.pl>
Source record: 15520

"Richard Clark" <kb7qhc@comcast.net> wrote
news:c38j05tbi5eqp066aaclmnnrci3p63q1hc@4ax.com...
> On Tue, 12 May 2009 18:00:09 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>The topics is polarisation. This word has the two meaning. The both have
>>wrong explanations in texbooks. The one I have verified with the comb.
>>The second "wave polarisation" is explained with transverse waves. No
>>transverse waves. If receiver (resonator) must be parallel to emmiter you
>>can explain it in many ways. But to verify it the comb is not enough. So I
>>need help.
>>
>
> That is fair. Let's start with some serious misunderstandings with a
> few questions to test them.
>
> First, let us return to that link you offered with the Hertzian Loop
> with its spark gap. Let us say that this loop is 1 meter of wire
> (about the actual size anyway). Let us say there is a current
> detector at each end of this loop. Let us say we have closed a switch
> that applies voltage to the loop, and the first meter has indicated
> current flow. This is our time reference point. Now the questions:
>
> 1. For the electron that went through the first current detector, how
> long does it take for that SAME electron to get to the second
> detector?
>
> 2. How long does it take for the second detector to indicate there is
> current flow?
>
> Hint: the answer for 1. is very, very different for the answer for 2.
>
> Now, let us say that before that SAME electron gets to the second
> current detector, that path is broken open (maybe 1 pico second before
> the SAME electron arrival). The SAME electron sees an open circuit.
> What is the amount of energy required for the electron to break out of
> the metal conductor, and into the air?

You went to details. Early you wrote: "An antenna radiates in ALL directions
from EVERYPOINT of
the antenna. "
Textbooks say that EM transversial waves are emitted by current (the sparks
in Hertz apparatus - not from the ends).
I say that from the ends (as electric waves similar to acoustics).

The directional pattern must be different.
The directional patterns of loudspeakers and Herts dipoles are very
similar.
So I try to find evidences.
Now I do not know if you prefer EM or electric waves.
S*

3047. Zaterdag 30 mei 2009 - 31e FRIESE RADIO MARKT

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 20:28:08 UTC
From: PA3ESF <pa3esf@gmail.com>
Message-ID: <832b4c5c-f296-445b-8687-fb1d76584ee0@t11g2000vbc.googlegroups.com>
Source record: 15521

31e RADIO FLEA MARKET in BEETSTERZWAAG on 30 May 2009

The radio flea market takes place to - 30 May 2009. Do you look for an exotic transistor kit or a super recipient, fixed and do manufacture kit...
or do meet of radio friends? Dan comes Saturday 30 May to the Friese radio market into Beetsterzwaag!

Many thousand visitors come each year from the entire Netherlands and Europe to this radio flea market spectacle, approx. 100 dealers, with most diverse articles, like transmitters, recievers, power supplies, antennas, software, hardware and literature.

Additionally of businessmen in the place also a flea market with many attraction organized for large and small. There are some sales desks free at the moment on the radio flea market, you can reserve by telephone & email, contact on to take with the executive committee. Down are these addresses.

How does one find after Beetsterzwaag? From direction Apeldoorn = > Zwolle = > Meppel = > Heerenveen = > Drachten, departure after Gorredijk Tijnje comes departure (28) Beetsterzwaag.

From direction Bremen = > Groningen = > Drachten = > Heerenveen, departure after Drachten Haven comes departure (28) Beetsterzwaag.

On 2mtr, 145,700 Digi Heerenveen can one to instruct leave themselves. Inlet is from 09:00 to 16:00 MESZ, into which Cafeteria one also boarded into this time.

This whole is organized of VERON FRIESE WOUDEN. Cordially Welcome in Friesland on the 31e FRM!

Look for more information at the site: www.frm.a63.org

Contact people, are:

Announce sales desks & Public relation:
Weit Lap, PA3ESF
Bouekers 40 9247 AR URETERP
Tel. 0031(0) 512 302702
E-mail : admin.frm@a63.org

3048. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 22:00:00 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <hsrj0514r0hlni2a3bms07349o1poecv11@4ax.com>
Source record: 15522

On Tue, 12 May 2009 21:29:31 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>You went to details. Early you wrote: "An antenna radiates in ALL directions
>from EVERYPOINT of
>the antenna. "

They do.

>Textbooks say that EM transversial waves are emitted by current (the sparks
>in Hertz apparatus - not from the ends).

That is not the same thing as radiation. Repeating poor quotations
does not make it better.

>I say that from the ends (as electric waves similar to acoustics).

Compressional waves or longitudinal waves? In solid or air or in
liquid? The answers to these questions lead to very, very different
behavior. As I say, these simplicities you use are nonsense.

>The directional pattern must be different.

The directional pattern is a combination of EVERYPOINT radiating in
ALL directions. The differences in their position contribute to an
unique pattern. This is the whole basis of the "method of moments"
application of modeling radiation emitters.

>The directional patterns of loudspeakers and Herts dipoles are very
>similar.

The are more differences than similarities.

>So I try to find evidences.
>Now I do not know if you prefer EM or electric waves.

That shouldn't keep you from answering the simple physics of:
Let's start with some serious misunderstandings with a
few questions to test them.

First, let us return to that link you offered with the Hertzian Loop
with its spark gap. Let us say that this loop is 1 meter of wire
(about the actual size anyway). Let us say there is a current
detector at each end of this loop. Let us say we have closed a switch
that applies voltage to the loop, and the first meter has indicated
current flow. This is our time reference point. Now the questions:

1. For the electron that went through the first current detector, how
long does it take for that SAME electron to get to the second

detector?

2. How long does it take for the second detector to indicate there is current flow?

Hint: the answer for 1. is very, very different for the answer for 2.

Now, let us say that before that SAME electron gets to the second current detector, that path is broken open (maybe 1 pico second before the SAME electron arrival). The SAME electron sees an open circuit. What is the amount of energy required for the electron to break out of the metal conductor, and into the air?

73's
Richard Clark, KB7QHC

3049. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-12 23:16:22 UTC
From: Dave <noone@nowhere.com>
Message-ID: <arnOl.883$5F2.857@nwrddc01.gnilink.net>
Source record: 15523

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote in message
news:060e3614-90a0-435d-94b0-1f7a59f58dd0@21g2000vbk.googlegroups.com...
On May 8, 4:51 am, Szczepan Biaï¿½ek <sz.bia...@wp.pl> wrote:
> It seems that at long distances should appear the phenomenon of frequency
> doubling.
> See:http://www.rp-photonics.com/frequency_doubling.html
>
> Is such?
> S*

no distance required, and no antenna required, just put the signal through a
diode or other non-linear element and you will get some component at double
the frequency.

3050. N8WWM THE TOLEDO KEYCLOWN

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 03:15:06 UTC
From: George Orwell <nobody@mixmaster.it>
Message-ID: <208a964494c8123db3293fecdc6a3dc4@mixmaster.it>
Source record: 15524

http://i40.tinypic.com/2f03k1t.jpg

Il mittente di questo messaggio|The sender address of this
non corrisponde ad un utente |message is not related to a real
reale ma all'indirizzo fittizio|person but to a fake address of an
di un sistema anonimizzatore |anonymous system
Per maggiori informazioni |For more info
https://www.mixmaster.it

3051. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 04:23:05 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <r1ik05tlrpkpbdmmvu4h006rtf5t9fh3lg@4ax.com>
Source record: 15525

We will take this by parts:

On Tue, 12 May 2009 18:00:09 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>The topics is polarisation. This word has the two meaning. The both have
>wrong explanations in texbooks.

Blaming references is a very strong indicator of you having the
problem, not the textbooks.

>The one I have verified with the comb.

I've read that, and it proves nothing that is part of the topic (I
shall explain below).

>The second "wave polarisation" is explained with transverse waves. No
>transverse waves.

If "no," then what "yes?"

Actually you have mixed up two different characteristics. Polarity
and polarization are NOT the same thing. With RF radiation, the wave
is constantly changing polarity (that is why the source of RF is
called alternating current), but within the "line of sight" of the
antenna, the polarization for a dipole is defined by its angle to the
earth as viewed by the observer.

If you see an horizontal dipole, it produces alternating polarities of
waves with horizontal polarization. If you see a vertical dipole, it
produces alternating polarities of waves with vertical polarization.

RF energy is ALWAYS changing polarity.

> If receiver (resonator) must be parallel to emmiter you
>can explain it in many ways. But to verify it the comb is not enough. So I
>need help.

The comb was useless in proving anything about RF, antennas, or
polarization. What it demonstrates is induced polarity in a
dielectric. Interesting, but entirely unrelated to the topic.

73's
Richard Clark, KB7QHC

3052. Re: spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 04:26:39 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <5_rOl.28150$BZ3.166@newsfe12.iad>
Source record: 15526

"ml" <m@di.net> wrote in message
news:m-8D8606.21053811052009@news.optonline.net...
> sigh, yeah i've been waiting a really long time finally were are
> due for the beginning of our '' next cycle and poof nuttn
>
> at least not yet i am still hoping it's just a short delay

Nice 10m opening from San Diego, California to Sandy, Utah this evening.
Fluke, Es or what??? (spaceweather.com still says no spots.)

3053. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 07:01:35 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gudic2$63c$1@node1.news.atman.pl>
Source record: 15527

"Richard Clark" <kb7qhc@comcast.net> wrote
news:r1ik05tlrpkpbdmmvu4h006rtf5t9fh3lg@4ax.com...
> We will take this by parts:
>
> On Tue, 12 May 2009 18:00:09 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>The topics is polarisation. This word has the two meaning. The both have
>>wrong explanations in texbooks.
>
> Blaming references is a very strong indicator of you having the
> problem, not the textbooks.

Is in old books the same as in todays?
Sometimes they are changed.
>
>>The one I have verified with the comb.
>
> I've read that, and it proves nothing that is part of the topic (I
> shall explain below).
>
>>The second "wave polarisation" is explained with transverse waves. No
>>transverse waves.
>
> If "no," then what "yes?"

You wrote: "Compressional waves or longitudinal waves? In solid or air or
in
liquid? The answers to these questions lead to very, very different
behavior. As I say, these simplicities you use are nonsense"

In EM are many simplifications. Electric waves are like the acoustic. Of
course they kick the electrons in antennas not a membranes.
>
> Actually you have mixed up two different characteristics. Polarity
> and polarization are NOT the same thing. With RF radiation, the wave
> is constantly changing polarity

In transvers waves something changes the direction of rotation. The source
makes rotating oscillations.

>(that is why the source of RF is called alternating current), but within
>the "line of sight" of the
> antenna, the polarization for a dipole is defined by its angle to the
> earth as viewed by the observer.)

You decribe the electric waves.
>
> If you see an horizontal dipole, it produces alternating polarities of
> waves with horizontal polarization. If you see a vertical dipole, it
> produces alternating polarities of waves with vertical polarization.

!00% agreement with me. RF waves are electrical.
>
> RF energy is ALWAYS changing polarity.
>
>> If receiver (resonator) must be parallel to emmiter you
>>can explain it in many ways. But to verify it the comb is not enough. So I
>>need help.
>
> The comb was useless in proving anything about RF, antennas, or
> polarization. What it demonstrates is induced polarity in a
> dielectric. Interesting, but entirely unrelated to the topic.

The Acoustic analogy will be also interesting.
S*

3054. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 11:15:50 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GZxOl.16156$hc1.12937@flpi150.ffdc.sbc.com>
Source record: 15528

Richard Clark wrote:
> If you see an horizontal dipole, it produces alternating polarities of
> waves with horizontal polarization.

That is broadside to the antenna. Directly off the
ends of the dipole, the polarization is vertical.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3055. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 13:16:47 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gueh7v$882c$1@tr22n12.aset.psu.edu>
Source record: 15529

Richard Clark wrote:

> That's OK. Even the Corums didn't answer them and it accounts for the
> rather thin material being leveraged into the new-age science we get
> discussed here.

Giving rise to the phrase, "Lack of De-corum".

(cymbal crash)

- Just catching up here..... 73 de Mike N3LI -

3056. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 13:21:23 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <guehgj$882c$2@tr22n12.aset.psu.edu>
Source record: 15530

Cecil Moore wrote:

> Sorry, first things first. I am a newlywed (Feb. 28) and
> all my equipment is still packed in boxes after squeezing
> into a new QTH.

Congratulations on the recent nuptials, Cecil, My regards to the new Mrs Moore.

- 73 de Mike N3LI -

3057. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 15:02:52 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <0inl051hffdu2re409uvfefer9la84jv88@4ax.com>
Source record: 15531

On Wed, 13 May 2009 09:01:35 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>> Blaming references is a very strong indicator of you having the
>> problem, not the textbooks.
>
>Is in old books the same as in todays?
>Sometimes they are changed.

Engineering? Never.

>You wrote: "Compressional waves or longitudinal waves? In solid or air or
>in
>liquid? The answers to these questions lead to very, very different
>behavior. As I say, these simplicities you use are nonsense"
>
>In EM are many simplifications. Electric waves are like the acoustic.

They are not. You are repeating your nonsense again.

> Of
>course they kick the electrons in antennas not a membranes.

This is more nonsense.

>> Actually you have mixed up two different characteristics. Polarity
>> and polarization are NOT the same thing. With RF radiation, the wave
>> is constantly changing polarity
>
>In transvers waves something changes the direction of rotation. The source
>makes rotating oscillations.

You are showing very little capacity to understand alternating
current, RF, and radiation.

>>(that is why the source of RF is called alternating current), but within
>>the "line of sight" of the
>> antenna, the polarization for a dipole is defined by its angle to the
>> earth as viewed by the observer.)
>
>You decribe the electric waves.

I am describing radiation.

>The Acoustic analogy will be also interesting.
>S*

No, it would not. Radiation is wholly unlike acoustics and very few people actually understand acoustics. Having the experience of "hearing" does not qualify you as being proficient in its discussion. Human sensation is vastly more illusion than science.

This is quite evident in your postings where you rely on crude simplifications and incorrect metaphors. The proof of their failure in your being to understand the topic of wave polarization is you cannot answer:

First, let us return to that link you offered with the Hertzian Loop with its spark gap. Let us say that this loop is 1 meter of wire (about the actual size anyway). Let us say there is a current detector at each end of this loop. Let us say we have closed a switch that applies voltage to the loop, and the first meter has indicated current flow. This is our time reference point. Now the questions:

1. For the electron that went through the first current detector, how long does it take for that SAME electron to get to the second detector?

2. How long does it take for the second detector to indicate there is current flow?

Hint: the answer for 1. is very, very different for the answer for 2.

Now, let us say that before that SAME electron gets to the second current detector, that path is broken open (maybe 1 pico second before the SAME electron arrival). The SAME electron sees an open circuit. What is the amount of energy required for the electron to break out of the metal conductor, and into the air?

These are very fundamental concepts that, if you cannot respond to them, reveal your range of involvement is extremely thin and you probably have no real interest in the topic.

Why are you posting here?

73's
Richard Clark, KB7QHC

3058. Re: spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 18:37:24 UTC
From: Rick <ricknj10@hotmail.com>
Message-ID: <ErEOl.1073$5F2.919@nwrddc01.gnilink.net>
Source record: 15532

> Nice 10m opening from San Diego, California to Sandy, Utah this evening.
> Fluke, Es or what??? (spaceweather.com still says no spots.)

Just plain old E skip. Tis the season.

K2XT

3059. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 19:41:55 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gueutb$d2d$1@node1.news.atman.pl>
Source record: 15533

"Richard Clark" <kb7qhc@comcast.net> wrote
news:0inl051hffdu2re409uvfefer9la84jv88@4ax.com...
> On Wed, 13 May 2009 09:01:35 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>> Blaming references is a very strong indicator of you having the
>>> problem, not the textbooks.
>>
>>Is in old books the same as in todays?
>>Sometimes they are changed.
>
> Engineering? Never.

Now we have the two different physics. One for students and the second in
engineering.
Textbooks are for students. In engineering are Handbooks and specifications.
>
>>You wrote: "Compressional waves or longitudinal waves? In solid or air or
>>in
>>liquid? The answers to these questions lead to very, very different
>>behavior. As I say, these simplicities you use are nonsense"
>>
>>In EM are many simplifications. Electric waves are like the acoustic.
>
> They are not. You are repeating your nonsense again.
>
>> Of
>>course they kick the electrons in antennas not a membranes.
>
> This is more nonsense.
>
>>> Actually you have mixed up two different characteristics. Polarity
>>> and polarization are NOT the same thing. With RF radiation, the wave
>>> is constantly changing polarity
>>
>>In transvers waves something changes the direction of rotation. The source
>>makes rotating oscillations.
>
> You are showing very little capacity to understand alternating
> current, RF, and radiation.
>
>>>(that is why the source of RF is called alternating current), but within
>>>the "line of sight" of the
>>> antenna, the polarization for a dipole is defined by its angle to the

>>> earth as viewed by the observer.)
>>
>>You decribe the electric waves.
>
> I am describing radiation.

In engineering sense. I agree with you.
>
>>The Acoustic analogy will be also interesting.
>>S*
>
> No, it would not. Radiation is wholly unlike acoustics and very few
> people actually understand acoustics. Having the experience of
> "hearing" does not qualify you as being proficient in its discussion.
> Human sensation is vastly more illusion than science.
>
> This is quite evident in your postings where you rely on crude
> simplifications and incorrect metaphors. The proof of their failure
> in your being to understand the topic of wave polarization is you
> cannot answer:
>
> First, let us return to that link you offered with the Hertzian Loop
> with its spark gap. Let us say that this loop is 1 meter of wire
> (about the actual size anyway). Let us say there is a current
> detector at each end of this loop. Let us say we have closed a switch
> that applies voltage to the loop, and the first meter has indicated
> current flow. This is our time reference point. Now the questions:
>
> 1. For the electron that went through the first current detector, how
> long does it take for that SAME electron to get to the second
> detector?
>
> 2. How long does it take for the second detector to indicate there is
> current flow?
>
> Hint: the answer for 1. is very, very different for the answer for 2.
>
> Now, let us say that before that SAME electron gets to the second
> current detector, that path is broken open (maybe 1 pico second before
> the SAME electron arrival). The SAME electron sees an open circuit.
> What is the amount of energy required for the electron to break out of
> the metal conductor, and into the air?
>
> These are very fundamental concepts that, if you cannot respond to
> them, reveal your range of involvement is extremely thin and you
> probably have no real interest in the topic.
>
> Why are you posting here?

To lern something from engineering people. I was sure that people in this
group must know such phenomenon. It was Brian Howie. He wrote: "You can get

ionospheric mixing of radio waves. e.g Luxembourg Effect; so
doubling is possible."

Today I found this:
http://durenberger.com/resources/documents/LUXEMBOURGEFFECT0235.pdf
So I have known what I want to know.
Of course my explanation of the phenomenon is as I described here.
It is not easy to understand me. I am sure that Wim does. He wrote "If you
would like to know more about EM-fields related to antennas and electronics,
just start with classical EM theory. This is a solid
tool, existing over 100 years and is used by many people with succes
to predict behaviour of circuits and antennas. If this will change of
today, I will close my business activities next monday"

Most engineering people very quickly forget the "classical EM theory" as was
tought in schools. In the "classical EM theory" no electrons. Engineering
use his own physics with electrons.
S*

3060. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 19:59:46 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <km8m05tns3cssc5r6sf3kf517onh05no3e@4ax.com>
Source record: 15534

On Wed, 13 May 2009 21:41:55 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>>>> Blaming references is a very strong indicator of you having the
>>>> problem, not the textbooks.
>>>
>>>Is in old books the same as in todays?
>>>Sometimes they are changed.
>>
>> Engineering? Never.
>
>Now we have the two different physics. One for students and the second in
>engineering.

The students are different, not the Physics. There is also college
physics and University physics. The sense here is that you are adept
at calculus (University) or you are not (college). Your explanations
of physics are not even High School (Gymnasium) level.

>> Why are you posting here?
>
>To lern something from engineering people. I was sure that people in this
>group must know such phenomenon. It was Brian Howie. He wrote: "You can get
>ionospheric mixing of radio waves. e.g Luxembourg Effect; so
>doubling is possible."

This is useless. It is like you asking "Will it rain?", and someone
telling you the story of Noah and the flood. Would you build an Ark
based on this answer to your question?

>Today I found this:
>http://durenberger.com/resources/documents/LUXEMBOURGEFFECT0235.pdf

Again, a very poor source. You are merely wandering along the shelves
and picking up random information.

>So I have known what I want to know.
>Of course my explanation of the phenomenon is as I described here.
>It is not easy to understand me. I am sure that Wim does. He wrote "If you
>would like to know more about EM-fields related to antennas and electronics,
>just start with classical EM theory. This is a solid
>tool, existing over 100 years and is used by many people with succes
>to predict behaviour of circuits and antennas. If this will change of
>today, I will close my business activities next monday"

What was the point of quoting this when you have done nothing from his
advice?

>Most engineering people very quickly forget the "classical EM theory" as was
>tought in schools. In the "classical EM theory" no electrons. Engineering
>use his own physics with electrons.
>S*

This worn out phrase is repeated so much that I don't think you are
really interested in anything more than trolling.

If you actually found a solution in the Luxembourg effect you could
answer:

First, let us return to that link you offered with the Hertzian Loop
with its spark gap. Let us say that this loop is 1 meter of wire
(about the actual size anyway). Let us say there is a current
detector at each end of this loop. Let us say we have closed a switch
that applies voltage to the loop, and the first meter has indicated
current flow. This is our time reference point. Now the questions:

1. For the electron that went through the first current detector, how
long does it take for that SAME electron to get to the second
detector?

2. How long does it take for the second detector to indicate there is
current flow?

Hint: the answer for 1. is very, very different for the answer for 2.

Now, let us say that before that SAME electron gets to the second
current detector, that path is broken open (maybe 1 pico second before
the SAME electron arrival). The SAME electron sees an open circuit.
What is the amount of energy required for the electron to break out of
the metal conductor, and into the air?

73's
Richard Clark, KB7QHC

3061. N8WWM THE TRANSVESTITE

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 20:36:01 UTC
From: George Orwell <nobody@mixmaster.it>
Message-ID: <fb6b909cab593c6443f27ae4d76a66e8@mixmaster.it>
Source record: 15535

http://i40.tinypic.com/15dsyyq.jpg

Il mittente di questo messaggio|The sender address of this
non corrisponde ad un utente |message is not related to a real
reale ma all'indirizzo fittizio|person but to a fake address of an
di un sistema anonimizzatore |anonymous system
Per maggiori informazioni |For more info
https://www.mixmaster.it

3062. Re: Radial straight down

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-13 21:08:44 UTC
From: Richard Fry <rfry@adams.net>
Message-ID: <42e2a50d-b968-45bf-a885-c996923a9af8@m24g2000vbp.googlegroups.com>
Source record: 15536

On May 11, 7:23 am, "Richard" <nearlynews_em...@ntlworld.com> wrote:
> Has anyone ever bored a hole into the ground and dangled a radial or
> counterpoise down it instead of burying a radial 6" horizontally under the
> ground or stringing out a counterpoise?

RF currents needing to travel a lengthy path through the earth to reach such a vertical buried wire would encounter high losses.

The function of buried radials is to provide a low loss return path for the r-f conduction currents induced in the earth near a monopole, which result from displacement currents generated by radiation from the monopole. Almost all of these currents lie within a radius of 1/2 of a free-space wavelength (regardless of the monopole height).

So the most efficient collection of these ground currents means the radials should extend about 1/2 of a free-space wavelength from the base of the monopole -- so that the currents won't have to travel very far through the lossy earth before they are "captured" by a radial wire.

The electrical length of buried radials with respect to the reduced v.p. in their environment has no real bearing on how effective the radials are at reducing the r-f loss in the ground system.

The r-f loss present in the radial ground system doesn't affect the shape of the relative field pattern generated by the monopole, or the propagation of the fields launched by the monopole. But as that ground system loss is in series with antenna current, it will affect the radiation efficiency of the antenna system.

A benchmark, real-world study of this subject was made by Brown, Lewis & Epstein of RCA Labs in 1937. It showed showed that 113 evenly-spaced, buried radials each 0.412 free-space wavelengths long and used with monopoles from ~70 to 90 degrees in height produced measured surface-wave fields at 3/10 of a mile that were within 2% of those generated by a perfect monopole with a zero-loss r-f ground, over a zero-loss ground plane.

This corresponds to an antenna system efficiency of about 96%, or 960 watts radiated for 1,000 watts applied to the feedpoint. For a monopole with a radiation resistance of 36 ohms this 96% efficiency means that the r-f resistance in the ground system is about 1.5 ohms. There wouldn't be much practical benefit gained by using more/longer radials.

The BL&E tests were conducted in the sandy soil of New Jersey, where earth conductivity is rather poor.

RF

3063. Re: AM radio reception inside passenger planes?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 05:04:19 UTC
From: Chuck Forsberg WA7KGX N2469R <caf@omen.com>
Message-ID: <d9KdnZYDJMPOO5bXnZ2dnUVZ_radnZ2d@giganews.com>
Source record: 15537

On Mon, 13 Dec 2004 08:47:43 -0600, Richard Harrison wrote:

> Some Guy wrote:
> "I have no trouble receiving FM radio broadcasts on a small am/fm radio
> I sometimes listen to while onboard commercial jet sirliners (flying at
> cruise altitude), but I bever seem to be able to pick up AM radio
> stations. It`s just static across the AM band.
>
> Any explanation for this?"
>
> Fuselage of the airliner acts as a waveguide below cutoff frequency
> (where diameter is at least 1/2-wavelength). Below cutoff, attenuation
> soars rapidly.
>
> FM wavelength is about 3 meters. AM wavelength is about 300 meters.
> Propagation of FM inside the fuselage is OK. Propagation of AM inside
> the fuselage vanishes quickly.
>
> You need to stick the suction cups of your Zenith portable`s Wave Magnet
> to a window to get AM reception.
>
> Best regards, Richard Harrison, KB5WZI

Years ago I could get some shortwave reception by placing the
radio's whip antenna across the window and lowering the shade
to keep in place (and hide the radio). MW stations were generally
too weak to listen to. FM was a jumble at altitude.

These days RFI from the cabin entertainment systems completely
blanks out everything so don't bother trying. Be thankful MP3 players
still work.

--
Chuck Forsberg caf@omen.com www.omen.com 503-614-0430
Developer of Industrial ZMODEM(Tm) for Embedded Applications
Omen Technology Inc "The High Reliability Software"
10255 NW Old Cornelius Pass Portland OR 97231 FAX 629-0665

3064. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 07:12:19 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gug7bijhg1@node1.news.atman.pl>
Source record: 15538

"Richard Clark" <kb7qhc@comcast.net> wrote
news:km8m05tns3cssc5r6sf3kf517onh05no3e@4ax.com...
> On Wed, 13 May 2009 21:41:55 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>>>> Blaming references is a very strong indicator of you having the
>>>>> problem, not the textbooks.
>>>>
>>>>Is in old books the same as in todays?
>>>>Sometimes they are changed.
>>>
>>> Engineering? Never.
>>
>>Now we have the two different physics. One for students and the second in
>>engineering.
>
> The students are different, not the Physics. There is also college
> physics and University physics. The sense here is that you are adept
> at calculus (University) or you are not (college). Your explanations
> of physics are not even High School (Gymnasium) level.

On all levels is: "James Clerk Maxwell's mathematical theory of 1873 had
predicted that electromagnetic disturbances should propagate through space
at the speed of light and should exhibit the wave-like characteristics of
light propagation."

Next on all levels is that the light waves are transversal because they can
be polarised.

Maxwell described it in his Treatise in words and in equations (are on-line)

>
>>> Why are you posting here?
>>
>>To lern something from engineering people. I was sure that people in this
>>group must know such phenomenon. It was Brian Howie. He wrote: "You can
>>get
>>ionospheric mixing of radio waves. e.g Luxembourg Effect; so
>>doubling is possible."
>
> This is useless. It is like you asking "Will it rain?", and someone
> telling you the story of Noah and the flood. Would you build an Ark
> based on this answer to your question?

I have never heard about the Luxembourg Effect. I predict it and ask proper
people (if is "frequency doubling).

>
>>Today I found this:
>>http://durenberger.com/resources/documents/LUXEMBOURGEFFECT0235.pdf
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> Again, a very poor source. You are merely wandering along the shelves
> and picking up random information.

The only I need.
>
>>So I have known what I want to know.
>>Of course my explanation of the phenomenon is as I described here.
>>It is not easy to understand me. I am sure that Wim does. He wrote "If you
>>would like to know more about EM-fields related to antennas and
>>electronics,
>>just start with classical EM theory. This is a solid
>>tool, existing over 100 years and is used by many people with succes
>>to predict behaviour of circuits and antennas. If this will change of
>>today, I will close my business activities next monday"
>
> What was the point of quoting this when you have done nothing from his
> advice?

I know the classical EM theory.
>
>>Most engineering people very quickly forget the "classical EM theory" as
>>was
>>tought in schools. In the "classical EM theory" no electrons. Engineering
>>use his own physics with electrons.
>>S*
>
> This worn out phrase is repeated so much that I don't think you are
> really interested in anything more than trolling.

>
> If you actually found a solution in the Luxembourg effect you could
> answer:
>
> First, let us return to that link you offered with the Hertzian Loop
> with its spark gap. Let us say that this loop is 1 meter of wire
> (about the actual size anyway). Let us say there is a current
> detector at each end of this loop. Let us say we have closed a switch
> that applies voltage to the loop,

...voltage by additionl wire (in what point of the ring?) or by space?
S*
>

3065. Re: AM radio reception inside passenger planes?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 08:52:00 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <IsiCYeKwu9CKFwQk@g3ohx.demon.co.uk>
Source record: 15539

In message <d9KdnZYDJMPOO5bXnZ2dnUVZ_radnZ2d@giganews.com>, Chuck
Forsberg WA7KGX N2469R <caf@omen.com> writes
>On Mon, 13 Dec 2004 08:47:43 -0600, Richard Harrison wrote:
>
>> Some Guy wrote:
>> "I have no trouble receiving FM radio broadcasts on a small am/fm radio
>> I sometimes listen to while onboard commercial jet sirliners (flying at
>> cruise altitude), but I bever seem to be able to pick up AM radio
>> stations. It`s just static across the AM band.
>>
>> Any explanation for this?"
>>
>> Fuselage of the airliner acts as a waveguide below cutoff frequency
>> (where diameter is at least 1/2-wavelength). Below cutoff, attenuation
>> soars rapidly.
>>
>> FM wavelength is about 3 meters. AM wavelength is about 300 meters.
>> Propagation of FM inside the fuselage is OK. Propagation of AM inside
>> the fuselage vanishes quickly.
>>
>> You need to stick the suction cups of your Zenith portable`s Wave Magnet
>> to a window to get AM reception.
>>
>> Best regards, Richard Harrison, KB5WZI
>
>Years ago I could get some shortwave reception by placing the
>radio's whip antenna across the window and lowering the shade
>to keep in place (and hide the radio). MW stations were generally
>too weak to listen to. FM was a jumble at altitude.
>
>These days RFI from the cabin entertainment systems completely
>blanks out everything so don't bother trying. Be thankful MP3 players
>still work.
>
With a window seat, FM works OK, especially (as has been said) with the
whip held close to the window. You can also get some SW reception. [I
remember listening to the BBC World service at 35,000 feet.] MW AM is
pretty useless (at those frequencies, the airframe is a Faraday cage).

Some airlines are/were OK about using radio receivers during the flight,
but I understand that these days, regardless of what the airline says,
you might get challenged by some 'over enthusiastic' security guy during
the normal departure security checks.

About 10 years ago (before the recent troubles), I did do some listening
on a UK-USA transatlantic flight. On approaching North America, I was
initially surprised that the first FM station I heard was
French-speaking (from Quebec, of course). I was relieved when I realised
that the 'driver' had not got lost.
--
Ian

3066. Superstar3900 Black + Lemm 12 Ampere

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 09:41:02 UTC
From: "tigerbusiness@gmail.com" <tigerbusiness@gmail.com>
Message-ID: <da1cfa82-5f24-4fb3-8fb9-50ae764eaee2@v17g2000vbb.googlegroups.com>
Source record: 15540

Superstar 3900 Black
http://tinyurl.com/pq4z8v
Lemm 12 Ampere
http://tinyurl.com/oxv8op

73 51 only
Alan

3067. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 10:45:58 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <bbadbc51-4b2f-4992-a102-9350904e5c22@z7g2000vbh.googlegroups.com>
Source record: 15541

On May 14, 3:12 am, Szczepan Białek <sz.bia...@wp.pl> wrote:
> "Richard Clark" <kb7...@comcast.net>
 wrotenews:km8m05tns3cssc5r6sf3kf517onh05no3e@4ax.com...
>
>
>
>
>
> > On Wed, 13 May 2009 21:41:55 +0200, Szczepan Bia?ek <sz.bia...@wp.pl>
> > wrote:
>
> >>>>> Blaming references is a very strong indicator of you having the
> >>>>> problem, not the textbooks.
>
> >>>>Is in old books the same as in todays?
> >>>>Sometimes they are changed.
>
> >>> Engineering? Never.
>
> >>Now we have the two different physics. One for students and the second in
> >>engineering.
>
> > The students are different, not the Physics. There is also college
> > physics and University physics. The sense here is that you are adept
> > at calculus (University) or you are not (college). Your explanations
> > of physics are not even High School (Gymnasium) level.
>
> On all levels is: "James Clerk Maxwell's mathematical theory of 1873 had
> predicted that electromagnetic disturbances should propagate through space
> at the speed of light and should exhibit the wave-like characteristics of
> light propagation."
>
> Next on all levels is that the light waves are transversal because they can
> be polarised.
>
> Maxwell described it in his Treatise in words and in equations (are on-line)
>
>
>
> >>> Why are you posting here?
>
> >>To lern something from engineering people. I was sure that people in this
> >>group must know such phenomenon. It was Brian Howie. He wrote: "You can
> >>get

> >>ionospheric mixing of radio waves. e.g Luxembourg Effect; so
> >>doubling is possible."
>
> > This is useless. It is like you asking "Will it rain?", and someone
> > telling you the story of Noah and the flood. Would you build an Ark
> > based on this answer to your question?
>
> I have never heard about the Luxembourg Effect. I predict it and ask proper
> people (if is "frequency doubling).
>
>
>
> >>Today I found this:
> >>http://durenberger.com/resources/documents/LUXEMBOURGEFFECT0235.pdf
>
> > Again, a very poor source. You are merely wandering along the shelves
> > and picking up random information.
>
> The only I need.
>
>
>
> >>So I have known what I want to know.
> >>Of course my explanation of the phenomenon is as I described here.
> >>It is not easy to understand me. I am sure that Wim does. He wrote "If you
> >>would like to know more about EM-fields related to antennas and
> >>electronics,
> >>just start with classical EM theory. This is a solid
> >>tool, existing over 100 years and is used by many people with succes
> >>to predict behaviour of circuits and antennas. If this will change of
> >>today, I will close my business activities next monday"
>
> > What was the point of quoting this when you have done nothing from his
> > advice?
>
> I know the classical EM theory.
>
>
>
>
>
>
>
>
> >>Most engineering people very quickly forget the "classical EM theory" as
> >>was
> >>tought in schools. In the "classical EM theory" no electrons. Engineering
> >>use his own physics with electrons.
> >>S*
>
> > This worn out phrase is repeated so much that I don't think you are

> > really interested in anything more than trolling.
>
> > If you actually found a solution in the Luxembourg effect you could
> > answer:
>
> > First, let us return to that link you offered with the Hertzian Loop
> > with its spark gap. Let us say that this loop is 1 meter of wire
> > (about the actual size anyway). Let us say there is a current
> > detector at each end of this loop. Let us say we have closed a switch
> > that applies voltage to the loop,
>
> ...voltage by additionl wire (in what point of the ring?) or by space?
> S*
>
>
>
> - Hide quoted text -
>
> - Show quoted text -- Hide quoted text -
>
> - Show quoted text -- Hide quoted text -
>
> - Show quoted text -

S" needs to go back and read in totality the paper on Luxenbourg
Effect. It explains that you DO in fact have a non-linear medium in
the form of a charged ionosphere during periods of the effect.
It is also difficult to tell whether or not what seems to be a case of
the Luxenbourg effect is in fact just intermodulation distortion
occurng in the receiver.

Jimmie

3068. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 16:01:08 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <rjfo05hi54focf968hurf0fjk9hqu2dlpa@4ax.com>
Source record: 15542

On Thu, 14 May 2009 09:12:19 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>On all levels is: "James Clerk Maxwell's mathematical theory of 1873 had

More dumpster diving.

>> First, let us return to that link you offered with the Hertzian Loop
>> with its spark gap. Let us say that this loop is 1 meter of wire
>> (about the actual size anyway). Let us say there is a current
>> detector at each end of this loop. Let us say we have closed a switch
>> that applies voltage to the loop,
>
>...voltage by additionl wire (in what point of the ring?) or by space?

Let's just skip the extremely difficult matters for you. It was your
reference source but you don't seem to have read it yet (apparently
the Luxembourg paper suffers your attention as well). If this were an
audio based group instead of a text based one, maybe you could find a
lectrice.

73's
Richard Clark, KB7QHC

3069. Re: AM radio reception inside passenger planes?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 16:28:47 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <guhgrt$b4v$1@news.jpl.nasa.gov>
Source record: 15544

Chuck Forsberg WA7KGX N2469R wrote:
> On Mon, 13 Dec 2004 08:47:43 -0600, Richard Harrison wrote:
>
>> Some Guy wrote:
>> "I have no trouble receiving FM radio broadcasts on a small am/fm radio
>> I sometimes listen to while onboard commercial jet sirliners (flying at
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>> (where diameter is at least 1/2-wavelength). Below cutoff, attenuation
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> to keep in place (and hide the radio). MW stations were generally
> too weak to listen to. FM was a jumble at altitude.
>
> These days RFI from the cabin entertainment systems completely
> blanks out everything so don't bother trying. Be thankful MP3 players
> still work.
>
>
>

One notes that you need to have permission from the plane's pilot to operate any sort of radio (including a receiver) while in flight. With receivers, the concern is with things like Local Oscillator or other leakage signals.

Whether this is a legitimate concern is a topic of discussion (e.g. they've flown commercial planes with an antenna and logging spectrum analyzer in an overhead bin, and discovered that lots of folks forget to turn off their cell phones), but the fact remains that the regulations

say no radios, except those permitted by the pilot in command.

3070. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 16:55:10 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guh9g6oir1@node1.news.atman.pl>
Source record: 15543

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote
news:bbadbc51-4b2f-4992-a102-9350904e5c22@z7g2000vbh.googlegroups.com...
>
>S" needs to go back and read in totality the paper on Luxenbourg
Effect. It explains that you DO in fact have a non-linear medium in
the form of a charged ionosphere during periods of the effect.
It is also difficult to tell whether or not what seems to be a case of
the Luxenbourg effect is in fact just intermodulation distortion
occurng in the receiver.

The paper is from 1935. The year and half after the first observation. Now
we have 2009.
Probably were the next observations. Some of you may have yours own.
What we need to analyse:
1. Type of mast (half-wave, or 1/4) and the frequency,
2. The frequency at which on the receiver a faint background appears.

Of course only the cases where the frequency doubling take place.
S*

3071. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 17:09:07 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guhaabong1@node1.news.atman.pl>
Source record: 15545

"JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote
news:060e3614-90a0-435d-94b0-1f7a59f58dd0@21g2000vbk.googlegroups.com...
On May 8, 4:51 am, Szczepan Biaďż˝ek <sz.bia...@wp.pl> wrote:
>> It seems that at long distances should appear the phenomenon of frequency
> doubling.
> See:http://www.rp-photonics.com/frequency_doubling.html
>
> Is such?
> S*

>Your reference seems to explain what you are asking very well.
Distance is not mentioned as a factor.

I have found the next:
http://books.google.pl/books?id=QSkeg9wmMDAC&pg=RA1-PA53&lpg=RA1-PA53&dq=radio+luxembourg+effect&source=bl&ots=nvhehrL1CA&sig=IyiVbyHeTJx56YEI5pe1lAFdl9I&hl=pl&ei=Ak0MSs-uEYzN-QbMr8meBg&sa=X&oi=book_result&ct=result&resnum=3#PRA1-PA53,M1

There on the page 53 you can find that the medium-wave were disturbed by the
long-vave (halve-way between).
S*

JImmie

3072. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 17:12:06 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guhafu$oo9$1@node1.news.atman.pl>
Source record: 15546

"Brian Howie" <brian@nospam.demon.co.uk> wrote
news:y8SRT+CwCFBKFwPE@b-howie.demon.co.uk...
> In message <ACVMl.5102$b11.2764@nwrddc02.gnilink.net>, Dave
> <noone@nowhere.com> writes
>>
>>"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>>news:gu0j07$9hn$1@node1.news.atman.pl...
>>> It seems that at long distances should appear the phenomenon of
>>> frequency doubling.
>>> See: http://www.rp-photonics.com/frequency_doubling.html
>>>
>>> Is such?
>>> S*
>>not that has been reported anywhere i have seen. this is likely because
>>that at the low amplitudes of radio waves relative to the energies needed
>>to create non-linear effects the medium is close enough to linear that any
>>doubling effect is too small to see.
>
>
> You can get ionospheric mixing of radio waves. e.g Luxembourg Effect; so
> doubling is possible.

You are right.

I have found this:
http://books.google.pl/books?id=QSkeg9wmMDAC&pg=RA1-PA53&lpg=RA1-PA53&dq=radio+luxembourg+effect&source=bl&ots=nvhehrL1CA&sig=IyiVbyHeTJx56YEI5pe1lAFdl9I&hl=pl&ei=Ak0MSs-uEYzN-QbMr8meBg&sa=X&oi=book_result&ct=result&resnum=3#PRA1-PA53,M1

There on the page 53 you can find that the medium-wave were disturbed by the
long-vave (halve-way between).
S*

3073. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 17:14:09 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guhajpooq1@node1.news.atman.pl>
Source record: 15547

"Szczepan Biaďż˝ek" <sz.bialek@wp.pl> wrote
news:guh9g6oir1@node1.news.atman.pl...
>
> "JIMMIE" <JIMMIEDEE123@YAHOO.COM> wrote
> news:bbadbc51-4b2f-4992-a102-9350904e5c22@z7g2000vbh.googlegroups.com...
>>
>>S" needs to go back and read in totality the paper on Luxenbourg
> Effect. It explains that you DO in fact have a non-linear medium in
> the form of a charged ionosphere during periods of the effect.
> It is also difficult to tell whether or not what seems to be a case of
> the Luxenbourg effect is in fact just intermodulation distortion
> occurng in the receiver.
>
> The paper is from 1935. The year and half after the first observation. Now
> we have 2009.
> Probably were the next observations. Some of you may have yours own.
> What we need to analyse:
> 1. Type of mast (half-wave, or 1/4) and the frequency,
> 2. The frequency at which on the receiver a faint background appears.
>
> Of course only the cases where the frequency doubling take place.
> S*

I have found the first:
http://books.google.pl/books?id=QSkeg9wmMDAC&pg=RA1-PA53&lpg=RA1-PA53&dq=radio+luxembourg+effect&source=bl&ots=nvhehrL1CA&sig=IyiVbyHeTJx56YEI5pe1lAFdl9I&hl=pl&ei=Ak0MSs-uEYzN-QbMr8meBg&sa=X&oi=book_result&ct=result&resnum=3#PRA1-PA53,M1

There on the page 53 you can find that the medium-wave were disturbed by the
long-vave (halve-way between).
S*

>

3074. Re: AM radio reception inside passenger planes?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 17:30:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <6p0ud6-scb.ln1@mail.specsol.com>
Source record: 15548

Jim Lux <james.p.lux@jpl.nasa.gov> wrote:
> Chuck Forsberg WA7KGX N2469R wrote:
>> On Mon, 13 Dec 2004 08:47:43 -0600, Richard Harrison wrote:
>>
>>> Some Guy wrote:
>>> "I have no trouble receiving FM radio broadcasts on a small am/fm radio
>>> I sometimes listen to while onboard commercial jet sirliners (flying at
>>> cruise altitude), but I bever seem to be able to pick up AM radio
>>> stations. It`s just static across the AM band.
>>>
>>> Any explanation for this?"
>>>
>>> Fuselage of the airliner acts as a waveguide below cutoff frequency
>>> (where diameter is at least 1/2-wavelength). Below cutoff, attenuation
>>> soars rapidly.
>>>
>>> FM wavelength is about 3 meters. AM wavelength is about 300 meters.
>>> Propagation of FM inside the fuselage is OK. Propagation of AM inside
>>> the fuselage vanishes quickly.
>>>
>>> You need to stick the suction cups of your Zenith portable`s Wave Magnet
>>> to a window to get AM reception.
>>>
>>> Best regards, Richard Harrison, KB5WZI
>>
>> Years ago I could get some shortwave reception by placing the
>> radio's whip antenna across the window and lowering the shade
>> to keep in place (and hide the radio). MW stations were generally
>> too weak to listen to. FM was a jumble at altitude.
>>
>> These days RFI from the cabin entertainment systems completely
>> blanks out everything so don't bother trying. Be thankful MP3 players
>> still work.
>>
>>
>>
>
> One notes that you need to have permission from the plane's pilot to
> operate any sort of radio (including a receiver) while in flight. With
> receivers, the concern is with things like Local Oscillator or other
> leakage signals.
>
> Whether this is a legitimate concern is a topic of discussion (e.g.
> they've flown commercial planes with an antenna and logging spectrum

> analyzer in an overhead bin, and discovered that lots of folks forget to
> turn off their cell phones), but the fact remains that the regulations
> say no radios, except those permitted by the pilot in command.

And the reality is the pilot in command of commercial aircraft has to
follow the policies of his employer, most of which take the safe
route of banning everything that might even remotely cause a problem.

--
Jim Pennino

Remove .spam.sux to reply.

3075. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 17:36:38 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <GEYOI.1246$5F2.554@nwrddc01.gnilink.net>
Source record: 15549

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:rjfo05hi54focf968hurf0fjk9hqu2dlpa@4ax.com...
> On Thu, 14 May 2009 09:12:19 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>On all levels is: "James Clerk Maxwell's mathematical theory of 1873 had
>
> More dumpster diving.
>
>>> First, let us return to that link you offered with the Hertzian Loop
>>> with its spark gap. Let us say that this loop is 1 meter of wire
>>> (about the actual size anyway). Let us say there is a current
>>> detector at each end of this loop. Let us say we have closed a switch
>>> that applies voltage to the loop,
>>
>>...voltage by additionl wire (in what point of the ring?) or by space?
>
> Let's just skip the extremely difficult matters for you. It was your
> reference source but you don't seem to have read it yet (apparently
> the Luxembourg paper suffers your attention as well). If this were an
> audio based group instead of a text based one, maybe you could find a
> lectrice.
>
> 73's
> Richard Clark, KB7QHC

Hi Richard

I did some web searching on frequendy doubling and found that Ireland's
capitol *is* Doublin.and want to point out that anyone with extra money
could consider investing there in Ireland.

Jerry

3076. Re: AM radio reception inside passenger planes?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 18:06:40 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <$WTvGiAw2FDKFwcC@g3ohx.demon.co.uk>
Source record: 15550

In message <6p0ud6-scb.ln1@mail.specsol.com>, jimp@specsol.spam.sux.com
writes
>Jim Lux <james.p.lux@jpl.nasa.gov> wrote:
>> Chuck Forsberg WA7KGX N2469R wrote:
>>> On Mon, 13 Dec 2004 08:47:43 -0600, Richard Harrison wrote:
>>>
>>>> Some Guy wrote:
>>>> "I have no trouble receiving FM radio broadcasts on a small am/fm radio
>>>> I sometimes listen to while onboard commercial jet sirliners (flying at
>>>> cruise altitude), but I bever seem to be able to pick up AM radio
>>>> stations. It`s just static across the AM band.
>>>>
>>>> Any explanation for this?"
>>>>
>>>> Fuselage of the airliner acts as a waveguide below cutoff frequency
>>>> (where diameter is at least 1/2-wavelength). Below cutoff, attenuation
>>>> soars rapidly.
>>>>
>>>> FM wavelength is about 3 meters. AM wavelength is about 300 meters.
>>>> Propagation of FM inside the fuselage is OK. Propagation of AM inside
>>>> the fuselage vanishes quickly.
>>>>
>>>> You need to stick the suction cups of your Zenith portable`s Wave Magnet
>>>> to a window to get AM reception.
>>>>
>>>> Best regards, Richard Harrison, KB5WZI
>>>
>>> Years ago I could get some shortwave reception by placing the
>>> radio's whip antenna across the window and lowering the shade
>>> to keep in place (and hide the radio). MW stations were generally
>>> too weak to listen to. FM was a jumble at altitude.
>>>
>>> These days RFI from the cabin entertainment systems completely
>>> blanks out everything so don't bother trying. Be thankful MP3 players
>>> still work.
>>>
>>>
>>>
>>
>> One notes that you need to have permission from the plane's pilot to
>> operate any sort of radio (including a receiver) while in flight. With
>> receivers, the concern is with things like Local Oscillator or other
>> leakage signals.
>>

>> Whether this is a legitimate concern is a topic of discussion (e.g.
>> they've flown commercial planes with an antenna and logging spectrum
>> analyzer in an overhead bin, and discovered that lots of folks forget to
>> turn off their cell phones), but the fact remains that the regulations
>> say no radios, except those permitted by the pilot in command.
>
>And the reality is the pilot in command of commercial aircraft has to
>follow the policies of his employer, most of which take the safe
>route of banning everything that might even remotely cause a problem.
>
Well, about 10 years ago, Virgin Atlantic certainly did list radio
receivers as OK to use in flight (and I took advantage of the facility).
I'm sure that they would have been fully aware of possible technical
problems. However, the novelty soon wears off, and haven't bothered even
checking (or listening) since. In any case, the size and weight of your
carry-on bag has been severely curtailed (and such restrictions
enforced) and, on a 9 or 10 hour flight, you find that need to be more
circumspect about what you choose to pack in your cabin bag.
--
Ian

3077. Re: wave polarisation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 18:28:13 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <lioo059cvq9clg1anjvug73grddedijg12@4ax.com>
Source record: 15551

On Thu, 14 May 2009 17:36:38 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

> I did some web searching on frequendy doubling and found that Ireland's
>capitol *is* Doublin.and want to point out that anyone with extra money
>could consider investing there in Ireland.

Hi Jerry,

That could prove it!

I think I had my fill of this.

73's
Richard Clark, KB7QHC

3078. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 19:16:06 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guhhocpqb1@node1.news.atman.pl>
Source record: 15552

"Richard Clark" <kb7qhc@comcast.net> wrote
news:ds3h05pja5igli7ftmfap9fgtofliq2c4g@4ax.com...
> On Mon, 11 May 2009 11:35:41 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>doubling is possible.")?
>
> No.

Here is wrote that it happend:
http://books.google.pl/books?id=QSkeg9wmMDAC&pg=RA1-PA53&lpg=RA1-PA53&dq=radio+luxembourg+effect&source=bl&ots=nvhehrL1CA&sig=IyiVbyHeTJx56YEI5pe1lAFdl9I&hl=pl&ei=Ak0MSs-uEYzN-QbMr8meBg&sa=X&oi=book_result&ct=result&resnum=3#PRA1-PA53,M1

There on the page 53 you can find that the medium-wave were disturbed by the
long-vave (halve-way between).
S*

3079. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 19:32:41 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <m5so05hjrkv7hh2sikaiq8hs242skvucdk@4ax.com>
Source record: 15553

On Thu, 14 May 2009 21:16:06 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>Here is wrote that it happend:

Trash is what this reference is called. Someone's diary is not
science.

If it were not trash, it does not prove doubling. Did you actually
read it? It doesn't prove IMD either as there would be a billion
reports every day from the presence of the MegaWatt LW stations in
Europe. I don't suppose you listen to radio either?

MythBusted = Trash and False.

73's
Richard Clark, KB7QHC

3080. Re: Antenna modeling software

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-14 20:38:01 UTC
From: "Larry Gauthier (K8UT)" <MyCallsign@ARRL.NET>
Message-ID: <Mi%OI.24020$hX2.8512@newsfe19.iad>
Source record: 15554

Gordon,

The ARRL Antenna Book at $40.00 is an excellent reference and worth the money all by itself. However, the book includes a CD with EZ-NEC models of the antennas, and a modified version of EZ-NEC software that allows you to open/manipulate those models (no limit on # of elements like the "demo" version - but you cannot save your modified files).

IMHO, this is an excellent way to begin using modeling software, using existing models, with little or no financial risk (like I said, the book alone is worth $40). If you decide you like the program, buy it! You can still access all of the ARRL's models as you experiment and extend its antennas with models of your own.

I am no expert with this stuff, but I have been using modeling software for many years. I never begin modeling an antenna from scratch; instead I start with an existing, similar antenna (one from the ARRL book or from the Cebic collection) and modify it.

-larry
K8UT
"Gordon" <gonzo@alltomyself.com> wrote in message
news:Xns9C08772157FF4greederxprtnet@194.177.98.144...
>I have seen a few antenna modeling programs mentioned here.
> Is there any concensus within the group on which one is
> better to use? Any that are free?
>
> - Consider that I am pretty much a beginner when it
> comes to antennas.
> - I am intrested in modeling receiving antennas in the
> UHF and VHF bands.
> - My big point of couriosity right now is reflectors.
> I want to see the effects of various wires, rods, screens,
> foil, etc.
>
> I suppose that I could pepper the group with questions.
> But, at some point it's best to do my own damn research.
>

3081. Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 06:48:36 UTC
From: dykesc <cupstidd@bellsouth.net>
Message-ID: <f3dfc493-8c1d-45f9-9574-474ecd7044e2@r34g2000vbi.googlegroups.com>
Source record: 15555

1. Does achieving a conjugate match via a transmatch between the transmitter and line do anything to reduce or eliminate mismatch loss in the line? In other words, if a line is 8:1 swr into a complex impedance load are the 8:1 "mismatch" losses still occurring even after achieving low swr with a transmatch?

2. (Unrelated to first question) After installation of a choke at the antenna input, swr on my off center fed dipole is surprisingly flat across the amateur bands, never rising much above 8:1 and this only on the high end of 80 meters. Reading Maxwell's "Reflections" series, it seems that this may be due to saturation of the choke at higher frequencies and I may have introduced non negligible loss into my antenna system. The choke was made by winding my RG-58 coax through a 3" toroid of unknown permeability (14 turns). Other than the toroid being solid black, I can't tell you anymore about it. I am using an MFJ-259B for measurements. It would seem to me the 259B would not be capable of delivering enough power to saturate the large toroid so maybe my "too flat" readings are occurring due to something else.

Any advice on the above much appreciated. Please include a comment on the ability of the 259B to be affected by toroid saturation.

3082. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 07:08:06 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guirf4vmk1@node1.news.atman.pl>
Source record: 15556

"Richard Clark" <kb7qhc@comcast.net> wrote
news:m5so05hjrkv7hh2sikaiq8hs242skvucdk@4ax.com...
> On Thu, 14 May 2009 21:16:06 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>Here is wrote that it happend:
>
> Trash is what this reference is called. Someone's diary is not
> science.
>
> If it were not trash, it does not prove doubling. Did you actually
> read it? It doesn't prove IMD either as there would be a billion
> reports every day from the presence of the MegaWatt LW stations in
> Europe. I don't suppose you listen to radio either?

Not all MegaWatt LW stations are the Hertz dipole. Such was in Warsow but
collapsed.
If station has only one end no doubling. Even if it has two the lower must
have the same possibilities (tip top of mountain).

But the main issue is not doubling. Are you sure that magnetic whirl exist
around a wire?
S*

3083. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 11:08:44 UTC
From: Dave <noone@nowhere.com>
Message-ID: <03cPl.1254$wR5.236@nwrddc02.gnilink.net>
Source record: 15557

"dykesc" <cupstidd@bellsouth.net> wrote in message
news:f3dfc493-8c1d-45f9-9574-474ecd7044e2@r34g2000vbi.googlegroups.com...
> 1. Does achieving a conjugate match via a transmatch between the
> transmitter and line do anything to reduce or eliminate mismatch loss
> in the line? In other words, if a line is 8:1 swr into a complex
> impedance load are the 8:1 "mismatch" losses still occurring even
> after achieving low swr with a transmatch?

yes

>
> 2. (Unrelated to first question) After installation of a choke at the
> antenna input, swr on my off center fed dipole is surprisingly flat
> across the amateur bands, never rising much above 8:1 and this only on
> the high end of 80 meters. Reading Maxwell's "Reflections" series, it
> seems that this may be due to saturation of the choke at higher
> frequencies and I may have introduced non negligible loss into my
> antenna system. The choke was made by winding my RG-58 coax through a
> 3" toroid of unknown permeability (14 turns). Other than the toroid
> being solid black, I can't tell you anymore about it. I am using an
> MFJ-259B for measurements. It would seem to me the 259B would not be
> capable of delivering enough power to saturate the large toroid so
> maybe my "too flat" readings are occurring due to something else.

i wouldn't call 8:1 'flat', i aim for 2:1 across the 6 hf contest bands,
excluding the high end of 80m. an important consideration is the length of
that rg-58 and what kind of condition it is in. with only 1db of loss in
the cable you could get 8:1 with almost an open or short circuit at the
antenna end... that would be about 50' at 28MHz.

>
> Any advice on the above much appreciated. Please include a comment on
> the ability of the 259B to be affected by toroid saturation.

no, the 259b won't saturate your toroid, but a very lossy toroid could be
contributing to the 'flatness'.

3084. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 11:28:41 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <cicPI.7128$Lr6.3385@flpi143.ffdc.sbc.com>
Source record: 15558

dykesc wrote:
> 1. Does achieving a conjugate match via a transmatch between the
> transmitter and line do anything to reduce or eliminate mismatch loss
> in the line? In other words, if a line is 8:1 swr into a complex
> impedance load are the 8:1 "mismatch" losses still occurring even
> after achieving low swr with a transmatch?

In an ideal system, achieving a conjugate match at the
transmatch ensures a conjugate match between the tuner
and the antenna. In a low-loss system, that conjugate
match is close but not perfect. A conjugate match and
an impedance match are NOT the same thing if the SWR
is not 1:1 on the transmission line.

A conjugate match ensures that maximum power is delivered
to the load which ensures maximum current in the transmission
line which ensures maximum losses in the transmission line
due to SWR.

A conjugate match does not change the impedance mismatch
or SWR between the transmatch and the antenna. What is
usually achieved by a transmatch is a Z0-match at a point.
A Z0-match usually ensures that reflected energy will not
reach the source and is instead, redistributed back toward
the antenna.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3085. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 15:14:17 UTC
From: JB <nospam@goofball.net>
Message-ID: <dFfPl.1466$5F2.753@nwrddc01.gnilink.net>
Source record: 15559

"Dave" <noone@nowhere.com> wrote in message
news:03cPl.1254$wR5.236@nwrddc02.gnilink.net...
>
> "dykesc" <cupstidd@bellsouth.net> wrote in message
> news:f3dfc493-8c1d-45f9-9574-474ecd7044e2@r34g2000vbi.googlegroups.com...
> > 1. Does achieving a conjugate match via a transmatch between the
> > transmitter and line do anything to reduce or eliminate mismatch loss
> > in the line? In other words, if a line is 8:1 swr into a complex
> > impedance load are the 8:1 "mismatch" losses still occurring even
> > after achieving low swr with a transmatch?
>
> yes

Think of the conjugate match from the transmatch as making the line to look
as if a 1/2 wave line and transforming to it. There will still be resistive
losses in the tuner and line accentuated by higher than normal voltages and
currents.
>
> >
> > 2. (Unrelated to first question) After installation of a choke at the
> > antenna input, swr on my off center fed dipole is surprisingly flat
> > across the amateur bands, never rising much above 8:1 and this only on
> > the high end of 80 meters. Reading Maxwell's "Reflections" series, it
> > seems that this may be due to saturation of the choke at higher
> > frequencies and I may have introduced non negligible loss into my
> > antenna system. The choke was made by winding my RG-58 coax through a
> > 3" toroid of unknown permeability (14 turns). Other than the toroid
> > being solid black, I can't tell you anymore about it. I am using an
> > MFJ-259B for measurements. It would seem to me the 259B would not be
> > capable of delivering enough power to saturate the large toroid so
> > maybe my "too flat" readings are occurring due to something else.
>
> i wouldn't call 8:1 'flat', i aim for 2:1 across the 6 hf contest bands,
> excluding the high end of 80m. an important consideration is the length
of
> that rg-58 and what kind of condition it is in. with only 1db of loss in
> the cable you could get 8:1 with almost an open or short circuit at the
> antenna end... that would be about 50' at 28MHz.
>
>
> >
> > Any advice on the above much appreciated. Please include a comment on
> > the ability of the 259B to be affected by toroid saturation.
>

> no, the 259b won't saturate your toroid, but a very lossy toroid could be
> contributing to the 'flatness'.

aggreed

3086. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 15:18:04 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <ck1r05h2mbe0hls5ej4lcjcsje88g0afng@4ax.com>
Source record: 15560

On Fri, 15 May 2009 09:08:06 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:
>>>Here is wrote that it happend:
>>
>> Trash is what this reference is called. Someone's diary is not
>> science.
>>
>> If it were not trash, it does not prove doubling. Did you actually
>> read it? It doesn't prove IMD either as there would be a billion
>> reports every day from the presence of the MegaWatt LW stations in
>> Europe. I don't suppose you listen to radio either?
>
>Not all MegaWatt LW stations are the Hertz dipole. Such was in Warsow but
>collapsed.

This is a ridiculous observation. However, if I were to allow it, it
thus also means that SOME MegaWatt LW stations are "the Hertz dipole,"
by your own admission (which is significantly in question as to be
authoritative because you don't really know, do you?).

>If station has only one end no doubling. Even if it has two the lower must
>have the same possibilities (tip top of mountain).

As SOME MegaWatt LW stations are "the Hertz dipole," it follows there
must be literally billions of examples of what you describe. And yet
you offer no personal experience, and the record is empty of others'
observations.

MythBusted = Trash and False.

>
>But the main issue is not doubling.

Funny you would say that in a thread whose topic was your deliberate
choice.

73's
Richard Clark, KB7QHC

3087. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 15:52:45 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <guk34d$3hm$1@news.jpl.nasa.gov>
Source record: 15561

dykesc wrote:
> 1. Does achieving a conjugate match via a transmatch between the
> transmitter and line do anything to reduce or eliminate mismatch loss
> in the line? In other words, if a line is 8:1 swr into a complex
> impedance load are the 8:1 "mismatch" losses still occurring even
> after achieving low swr with a transmatch?
>
> 2. (Unrelated to first question) After installation of a choke at the
> antenna input, swr on my off center fed dipole is surprisingly flat
> across the amateur bands, never rising much above 8:1 and this only on
> the high end of 80 meters. Reading Maxwell's "Reflections" series, it
> seems that this may be due to saturation of the choke at higher
> frequencies and I may have introduced non negligible loss into my
> antenna system. The choke was made by winding my RG-58 coax through a
> 3" toroid of unknown permeability (14 turns). Other than the toroid
> being solid black, I can't tell you anymore about it. I am using an
> MFJ-259B for measurements. It would seem to me the 259B would not be
> capable of delivering enough power to saturate the large toroid so
> maybe my "too flat" readings are occurring due to something else.

You can use your 259 to measure the permeability of your toroid, and
infer what mix it is.

Measure the inductance of an inductor with a few turns on the toroid.

From that, you can get the inductance factor.. a few minutes searching
the catalog will probably find a match, given the physical size.

3088. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 16:05:46 UTC
From: dykesc <cupstidd@bellsouth.net>
Message-ID: <ad161de6-d48c-4ad5-80a0-2ca46183f97a@s31g2000vbp.googlegroups.com>
Source record: 15562

Thanks Dave, Cecil and JB for taking the time to reply. Sounds like even with a conjugate match at the transmitter, I need to calculate total line losses based on SWR readings without the transmatch in the line. Also thanks for the advice on the choke and 259B. I could have a lossy toroid making things look better than they actually are. I believe I'll try making an air core choke by simply coiling turns in the coax at the antenna connection and see how that changes things. Actually even with the toroid choke the antenna is working pretty well for the wire antenna and low power setup I have here. Fun trying different things though and I like to fiddle around.

73s
Dykes AD5VS in Mississippi

3089. FS Yaesu G-400RC Rotator and Controller

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 16:39:22 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <%UgPl.16857$%54.3116@nlpi070.nbdc.sbc.com>
Source record: 15563

I have for sale a very nice Yaesu G-400RC Rotator and Controller. These rotors are similar to the Yaesu G-450s but they do not require a special plug on the rotor or the controller for the cable like the G-450s do. In very good shape cosmetically and it works well. Price is $175, shipped in CONUS. Pictures available.Thanks, Charlie Hugg, K5MBX

3090. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 17:23:44 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gujvh6$5ks$1@node1.news.atman.pl>
Source record: 15564

"Richard Clark" <kb7qhc@comcast.net> wrote
news:ck1r05h2mbe0hls5ej4lcjcsje88g0afng@4ax.com...
> On Fri, 15 May 2009 09:08:06 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>>>>Here is wrote that it happend:
>>>
>>> Trash is what this reference is called. Someone's diary is not
>>> science.
>>>
>>> If it were not trash, it does not prove doubling. Did you actually
>>> read it? It doesn't prove IMD either as there would be a billion
>>> reports every day from the presence of the MegaWatt LW stations in
>>> Europe. I don't suppose you listen to radio either?
>>
>>Not all MegaWatt LW stations are the Hertz dipole. Such was in Warsow but
>>collapsed.
>
> This is a ridiculous observation. However, if I were to allow it, it
> thus also means that SOME MegaWatt LW stations are "the Hertz dipole,"
> by your own admission (which is significantly in question as to be
> authoritative because you don't really know, do you?).
>
>>If station has only one end no doubling. Even if it has two the lower must
>>have the same possibilities (tip top of mountain).
>
> As SOME MegaWatt LW stations are "the Hertz dipole," it follows there
> must be literally billions of examples of what you describe. And yet
> you offer no personal experience, and the record is empty of others'
> observations.

The others' obserwations were made in 1933 and a few next. Engineers are so
clever people that they very quickly found a remedy.
>
> MythBusted = Trash and False.
>
>>
>>But the main issue is not doubling.
>
> Funny you would say that in a thread whose topic was your deliberate
> choice.

Is the two: doubling and polarisation.
1. ""Over long distances, the atmosphere can cause the
polarization of a radio wave to fluctuate, so the distinction between
horizontal and vertical becomes less significant." From:

http://whatis.techtarget.com/definition/0,,sid9_gci843762,00.html

2. It seems that at long distances should appear the phenomenon of frequency doubling.

The common is "wave propagation"or more precise "are Radio Waves transverse or longitudinal"?
What is your opinion?
S*

3091. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 17:30:24 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <889r05195u4lq9291iav0m9928mcc1oi0o@4ax.com>
Source record: 15566

On Fri, 15 May 2009 19:23:44 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>> As SOME MegaWatt LW stations are "the Hertz dipole," it follows there
>> must be literally billions of examples of what you describe. And yet
>> you offer no personal experience, and the record is empty of others'
>> observations.
>
>The others' obserwations were made in 1933

But not by you, in 2009. Are you too bored with the topic to turn on
a radio to confirm? So why do you post here?

MythBusted = Trash and False.

73's
Richard Clark, KB7QHC

3092. FS Johnson Matchboxes/Antenna Tuners/Update

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 17:30:55 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <gFhPl.29840$Ws1.6236@nlpi064.nbdc.sbc.com>
Source record: 15565

I have for sale several E.F. Johnson Matchboxes/Antenna Tuners: 1. (SOLD)Model 250-23-3. This is the small 275 watts AM tuner(good for over a KW PEP SSB). It has the built in SWR Meter and outboard Coupler. Nice shape. Price is:$135; 2. Model 250-23. Small tuner as above but without the Meter and Coupler. Good shape. Price is:$75; 3. Model 250-30. This is the Large KW AM tuner(good for much more on SSB). This model does not have the Meter or Coupler. It is in very nice shape. Price is: $250; 4.(SOLD)Model 250-30-3. Large KW AM model as above, but it has the Meter. Requires Coupler not supplied. This one works but is rough cosmetically. Digital pictures available. Price is $135. I will split shipping within CONUS for all tuners. Thanks, Charlie Hugg, K5MBX

3093. FS BB3 Screwdriver Mobile Antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 18:05:00 UTC
From: Charlie Hugg <k5mbx@sbcglobal.net>
Message-ID: <h9iPl.22374$as4.9157@nlpi069.nbdc.sbc.com>
Source record: 15567

FS: a like new, seldom used Nott Ltd. Antenna Company Model BB3C screwdriver mobile antenna. This is the chrome model antenna. It sells for 339.99. I also have the hand control unit and the manual.(no bumper mount). You can use it with any 102 inch or shorter whip or tophat(not included). I will sell it for $195 plus shipping. It works great. You will not be disappointed. Pictures available. Thanks, Charlie Hugg, K5MBX

3094. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 18:10:22 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ieiPl.22375$as4.21022@nlpi069.nbdc.sbc.com>
Source record: 15568

dykesc wrote:
> I need to calculate
> total line losses based on SWR readings without the transmatch in the
> line.

If your feedline between the transmatch and the antenna is
50 ohm coax, you can leave the transmatch in the system and
use a separate SWR meter on the output of the transmatch to
measure the SWR on the coax between the transmatch and the
antenna.

If you don't have 50 ohm coax between the transmatch and
the antenna, you are SOL in determining the actual SWR on
the ladder-line or whatever with a standard SWR meter. The
50 ohm SWR reading without the transmatch is completely
different from the actual SWR on the transmission line when
the Z0 is not 50 ohms.

Even the SWR reading looking into ladder-line using an
MFJ-259B is nowhere near the actual SWR on the ladder-
line. For instance, a 50 ohm SWR meter can read a 1:1
SWR on 450 ladder-line when the actual SWR on the ladder-
line is 9:1.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3095. Re: FS BB3 Screwdriver Mobile Antenna

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 18:15:34 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <MpiPl.16638$pr6.8683@flpi149.ffdc.sbc.com>
Source record: 15569

Charlie Hugg wrote:
> FS: a like new, seldom used Nott Ltd. Antenna Company Model BB3C screwdriver
> mobile antenna.

Charlie, I don't know if you know it or not, but for-sale
postings are prohibited by the rules of this technical
information newsgroup. Your for-sale postings should instead
be directed to rec.radio.swap to avoid violations of the rules.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3096. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-15 19:47:25 UTC
From: dykesc <cupstidd@bellsouth.net>
Message-ID: <47e25bb4-17d5-4c8f-a6fe-91e2be766c83@m24g2000vbp.googlegroups.com>
Source record: 15570

On May 15, 1:10 pm, Cecil Moore <nos...@w5dxp.com> wrote:

> Even the SWR reading looking into ladder-line using an
> MFJ-259B is nowhere near the actual SWR on the ladder-
> line. For instance, a 50 ohm SWR meter can read a 1:1
> SWR on 450 ladder-line when the actual SWR on the ladder-
> line is 9:1.

Thanks Cecil, I see what you mean. The 450 ohm line could be seeing an impedance of 50 ohms making the swr 9:1. The MFJ-259B, being 50 ohm based, and seeing the 50 ohms would call the swr 1:1. Kind of obvious but something I probably would have overlooked. I'll get out the manual for the 259b and see if MFJ cautions the user on this.

73
Dykes AD5VS

3097. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 04:07:23 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C0D8FAB6A195nonenowhere@61.9.191.5>
Source record: 15571

dykesc <cupstidd@bellsouth.net> wrote in news:ad161de6-d48c-4ad5-80a0-2ca46183f97a@s31g2000vbp.googlegroups.com:

> ... Sounds like
> even with a conjugate match at the transmitter, I need to calculate
> total line losses based on SWR readings without the transmatch in the
> line.

Well, that is an approximation based on a number of assumptions. If you don't know the assumptions, or cannot be sure that they apply, it is better to calculate the line loss based on the load impedance (or inference from the input impedance).

See TLLC at http://www.vk1od.net/calc/tl/tllc.php , or TWLLC at http://www.vk1od.net/calc/tl/tllc.php .

My article "Additional loss due to VSWR" at http://vk1od.net/blog/?p=316 canvasses the issue.

Owen

3098. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 07:00:56 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gulfd4car1@node1.news.atman.pl>
Source record: 15572

"Richard Clark" <kb7qhc@comcast.net> wrote
news:889r05195u4lq9291iav0m9928mcc1oi0o@4ax.com...
> On Fri, 15 May 2009 19:23:44 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>> As SOME MegaWatt LW stations are "the Hertz dipole," it follows there
>>> must be literally billions of examples of what you describe. And yet
>>> you offer no personal experience, and the record is empty of others'
>>> observations.
>>
>>The others' obserwations were made in 1933
>
> But not by you, in 2009. Are you too bored with the topic to turn on
> a radio to confirm?

I took a glance on my very old radio (it has the all waves) yesterday. No
possibility for doubling. All bands are arranged in such way that no
possibility.

> So why do you post here?

I collect evidences that Radio Waves are longitudinal.
The harvest is huge in your Group.
S*

> MythBusted = Trash and False.
>
> 73's
> Richard Clark, KB7QHC

3099. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 07:22:59 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gulgmf$cf0$1@node1.news.atman.pl>
Source record: 15573

"Richard Harrison" <richardharrison@webtv.net> wrote
news:26923-4A048F88-1487@storefull-3173.bay.webtv.net...
> Art wrote:
> "Thus Kraus`s antennas are not in equilibrium and thus deviated away
> from Maxwell`s laws."
>
> Impossible.
>
> Maxwell`s laws are all that is nscessary and sufficient to describe
> radiation from any antenna.
>
> On page 37 of Kraus & Marthelka`s "Antennas for All Applications" one
> can read:
>
> "Although a charge moving with uniform velocity along a sreaighr
> conductor does not radiate, a charge moving back and forth in simple
> harmonic motion along the conductor is subject to aceleration (and
> deceleration) and radiates."

Tell us than from which part of Hertz apparatus a radio waves are radiated?
(http://people.seas.harvard.edu/~jones/cscie129/nu_lectures/lecture6/hertz/Hertz_exp.html

Are they transverse or longitudinal?
S*

3100. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 07:41:39 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gulhpe$cl4$1@node1.news.atman.pl>
Source record: 15574

"Dave Platt" <dplatt@radagast.org> wrote
news:htp9d6-vg5.ln1@radagast.org...
> Art Unwin wrote:
>>> I don't know about waves but my understanding is that all colors come
>>> from the mixing of the three basic colors, or is it four?
>
> Your understanding is in error... at least, if you're referring to
> colors in terms of actual photon behavior (energy and wavelength)
> rather than to the human *perception* of color.
>
>>That's the RGB standard designed for fooling human
>>eyes into seeing more than just red, green, and blue.
>
> Yup. And, the red/green/blue system is an artifact of the human
> visual system... most of us happen to have three different types
> of photo-sensitive molecules in the cone cells in our eyes, and these
> three types of molecules have their peak receptivities at the
> frequencies that we refer to as "red", "green", and "blue."
>
> There seems to be some amount of genetic variation, among humans, in
> the exact frequencies at which the peak sensitivies lie. And, some
> people have are missing one or more of these types of photoreceptor,
> and are referred to as "colorblind".
>
> There are apparently some humans who have four different types of
> photopigment, and thus may have an improved ability to perceive
> distinctions between colors. Certain species of animal are known to
> have four photopigments (one for e.g. UV sensitivity) and I wouldn't
> be surprised if some species have five or more variants.
>
>>Photons in nature come in *all* EM frequencies.
>
> Yup again. It's an interesting process:
>
> - Light comes in a continuous range of frequencies.
>
> - Our eyes "sample" this continous range, with three types of sensor
> having different-but-overlapping sensitivities. Each sensor
> generates a variable amplitude (or pulse train) based on the
> intensity that it's detecting, within its sensitivity range.
>
> - Our nervous system maps the three amplitudes back into a perception
> of a continuous range of colors.
>

> The process is far from perfect... information is lost during the
> sampling process, and thus the perception of a continuous spectrum is
> necessarily flawed and imperfect.
>
> This is why a mixture of two different pure colors (e.g. red and
> green) can look like a single pure color to our eyes (e.g. yellow or
> amber)... it happens to excite the red and green photosensors in the
> same proportion that a single, pure-yellow light would. Mixed
> together, the colors look like one... split them apart with a prism
> and you can easily distinguish them and see the trick.

Sometimes the screen on TV or cinema is perfectly white. This in cinema
reflect. This reflected light splitted with the prism has only three
frequences?

> [Almost] All Is Illusion.
S*

3101. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 07:55:10 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guliip$cn7$1@node1.news.atman.pl>
Source record: 15575

"Art Unwin" <ArthurUnwin@gmail.com> wrote
news:7166bd02-e5e9-4dae-b074-763dad938ba0@z5g2000vba.googlegroups.com...
On May 6, 7:05 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Art Unwin wrote:
> > I don't know about waves but my understanding is that all colors come
> > from the mixing of the three basic colors, or is it four?
>
> That's the RGB standard designed for fooling human
> eyes into seeing more than just red, green, and blue.
> Photons in nature come in *all* EM frequencies.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

>Cecil
>Seems like this thing called photon is the magic article that created
the big bang.
You attribute everything to the photon but I don't think physics as
got a proper handle on it! Heck, only a few years ago they said a
particle could exist without mass.If a particle emitted from the Sun's
boundary(lepton?) deaccellerated in a particular medium
and broke apart into many electrons, then would not heat or light be
emitted as kinetic energy contained in the particles of different
sizes representing the spectrum
of a particular color with respect to potential energy contained in
the various sized particles? Does your photon come in different sizes,
color and potential energy?
My understanding is that there are about seven leptons that break away
from the Sun's boundary, three of which contains color attributes
along with other flavours which is indicative of temperature and
change in momentum.
>I think it is to early to argue about such a subject.

May be it is time to return to the beginning. To the Hertz experiment. See:
(http://people.seas.harvard.edu/~jones/cscie129/nu_lectures/lecture6/hertz/Hertz_exp.html

What and from radiated?
1. Maxwell's waves from the big sparks (the big sparks are in full analogy
to lightning which also radiate radio waves),
2. Electric waves from the two plates (there appear and disappear a huge
charges - electrons are compressible and have mass),
3. Photons
S*

3102. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 11:14:11 UTC
From: Dave <noone@nowhere.com>
Message-ID: <7exPl.1449$wR5.1237@nwrddc02.gnilink.net>
Source record: 15576

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gulfd4car1@node1.news.atman.pl...
>
> "Richard Clark" <kb7qhc@comcast.net> wrote
> news:889r05195u4lq9291iav0m9928mcc1oi0o@4ax.com...
>> On Fri, 15 May 2009 19:23:44 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
>> wrote:
>>
>>>> As SOME MegaWatt LW stations are "the Hertz dipole," it follows there
>>>> must be literally billions of examples of what you describe. And yet
>>>> you offer no personal experience, and the record is empty of others'
>>>> observations.
>>>
>>>The others' obserwations were made in 1933
>>
>> But not by you, in 2009. Are you too bored with the topic to turn on
>> a radio to confirm?
>
> I took a glance on my very old radio (it has the all waves) yesterday. No
> possibility for doubling. All bands are arranged in such way that no
> possibility.

but amateur bands were initially assigned so that harmonics ended up in the
next higher band... but because transmitters generated harmonics because of
their design, not because the antennas or ionosphere created them.

>
>> So why do you post here?
>
> I collect evidences that Radio Waves are longitudinal.
> The harvest is huge in your Group.
> S*

then you REALLY need to talk to art, his waves are caused by magical
levitating diamagnetic neutrinos jumping off the antenna when the current
flows in, that would fit nicely with your misguided theory.

>
>
>> MythBusted = Trash and False.
>>
>> 73's
>> Richard Clark, KB7QHC
>

3103. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 13:42:44 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%vzPl.16692$pr6.10402@flpi149.ffdc.sbc.com>
Source record: 15577

Szczepan Białˇek wrote:
> Heck, only a few years ago they said a
> particle could exist without mass.

Photons have zero *rest* mass. If they had mass at
rest, they could not travel at the speed of light.
The mass of a photon is due to its velocity, c in
free space. When a photon slows to less than the speed
of light in a medium, it gives up its energy to another
particle, e.g. an electron, and disappears.

> 3. Photons

EM radiation from amateur radio antennas is photonic.
RF energy is supplied to the antenna system by our
transmitters. Free electrons are accelerated and
decelerated. Photons are emitted and absorbed by
those free electrons. Some of the photons escape
into space as coherent radiation.

One can learn a lot about EM waves by understanding
the nature of photons. For instance, standing waves
consist of photons that cannot stand still. The
illusion of a "standing" wave is just two waves of
photons moving in opposite directions at the speed
of light. Photons are not like mashed potatoes.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3104. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 16:24:52 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <cvpt055agomba401t006f5um3rq7bnd7p9@4ax.com>
Source record: 15578

On Sat, 16 May 2009 09:00:56 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>> But not by you, in 2009. Are you too bored with the topic to turn on
>> a radio to confirm?
>
>I took a glance on my very old radio (it has the all waves) yesterday.

And you didn't even turn it on. Now THAT is lazy.

>I collect evidences that Radio Waves are longitudinal.

You are not actually "doing" anything at all.

So why do you post here?

73's
Richard Clark, KB7QHC

3105. Low angle radiation skip

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 16:57:55 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <808150d9-a35e-414c-b637-ae1500890a62@g20g2000vba.googlegroups.com>
Source record: 15579

In the good old days of multi sunspots it was not unusual for 10 M
skip
ducting all around the World to the point of emmission about one
second later. Ofcourse 10M provides a low TOA. Which brings up a
question, what is the lowest angle known for a particular skip
distance or where can one find reference to such? Low angle take off
have to deal with the grazing action as well as the point of change
over from reflection and ducting as well as absorbtion and the ground
hugging phenomina. But at the back of my mind I seem to remember an
instance where a dish was able to obtain low angle television(big,
big dish) which I seem to remember was not temperature related.
Anybody got any comments that they have read in the past with respect
to low angle take off, limits e.t.c.?
Regards
Art

3106. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 17:15:13 UTC
From: dplatt@radagast.org
Message-ID: <1u83e6-95k.ln1@radagast.org>
Source record: 15582

In article <gulhpe$cl4$1@node1.news.atman.pl>,
Szczepan Bia&#65533;ek <sz.bialek@wp.pl> wrote:

>Sometimes the screen on TV or cinema is perfectly white. This in cinema
>reflect. This reflected light splitted with the prism has only three
>frequences?

They're likely to be three bands of frequencies rather than three
narrow single-frequency lines, because the technologies used to create
the frequencies aren't narrow-band. But, yes, what you are seeing as
"perfectly white" under these circumstances is often *not* a smooth,
continuous spectrum.

In the case of a TV screen, you're seeing either:

- The mixed emissions of a set of red, green, and blue phosphors,
individually excited by electron beams [for CRT displays], or

- The emission from the phosphors of a cold-cathode fluorescent
backlighting lamp (a complex spectrum with multiple peaks) filtered
through red, green, and blue pixel-sized filters (for most LCD
tubes).

In traditional film cinema, you're seeing the emissions of an
incandescent or halogen bulb (fairly continuous spectrum) filtered
through three colors of dye in the film print.

The fact that these complex mixtures of overlapping color spectra can
look "pure white" to our eyes, is due in large part to our complex
nervous systems. Our eye/brain systems adapt to the mix of colors
present under differnet lighting conditions, and interpret different
combinations as "pure white" depending on what's available at the time.

This is why, for example, indoor fluorescent lighting can actually
look half-decent to our eyes once we get used to it (we "see" a fairly
complete range of colors there) but what looks "white" to use under
fluorescents will actually have a distinctly greenish cast to a film
or digital camera.

It's also why a rather curious phenomenon can be demonstrated. The
exact same mix of color emissions may look very different to us,
under different ambient lighting conditions... what might look
greenish outdoors will look pure white or even slightly pinkish under
indoor fluorescent lighting, because our brains *interpret* that input
differently due to the different surroundings.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

3107. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 17:45:46 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guml5ugmd1@node1.news.atman.pl>
Source record: 15580

"Dave" <noone@nowhere.com> wrote
news:7exPl.1449$wR5.1237@nwrddc02.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gulfd4car1@node1.news.atman.pl...
>>
>>
>> I took a glance on my very old radio (it has the all waves) yesterday. No
>> possibility for doubling. All bands are arranged in such way that no
>> possibility.
>
> but amateur bands were initially assigned so that harmonics ended up in
> the next higher band... but because transmitters generated harmonics
> because of their design, not because the antennas or ionosphere created
> them.

Discussion with Wim: ">In case of non-linear parts in a system (for example
a corroded
connector in an antenna cable that is used by two or more
transmitters, that may behave as a semiconductor), you might get so
called mixer products (sum frequencies, harmonics, difference
frequencies, etc)."

My answer was: "Harmonics may be the reason that nobody have seen the
Phenomenon."
>>
>>> So why do you post here?
>>
>> I collect evidences that Radio Waves are longitudinal.
>> The harvest is huge in your Group.
>> S*
>
> then you REALLY need to talk to art, his waves are caused by magical
> levitating diamagnetic neutrinos jumping off the antenna when the current
> flows in, that would fit nicely with your misguided theory.

It is not mine. It is by Ampere, Gauss, Weber, Helmholtz and many other
prominent scientists.
Helmholtz wrote the same equations for whirls in fluids. Maxwell admited it
in his Treatise "On line of forces".
So EM is the hydraulic analogy. Now for electrons the Gas analogy is better.
I am only a kibitzer.
S*

3108. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 18:05:28 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gummas$gr4$1@node1.news.atman.pl>
Source record: 15581

Uďż˝ytkownik "Richard Clark" <kb7qhc@comcast.net> napisaďż˝ w wiadomoďż˝ci
news:cvpt055agomba401t006f5um3rq7bnd7p9@4ax.com...
> On Sat, 16 May 2009 09:00:56 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>> But not by you, in 2009. Are you too bored with the topic to turn on
>>> a radio to confirm?
>>
>>I took a glance on my very old radio (it has the all waves) yesterday.
>
> And you didn't even turn it on. Now THAT is lazy.
>
>>I collect evidences that Radio Waves are longitudinal.
>
> You are not actually "doing" anything at all.

The most valuable was your statement: " An antenna radiates in ALL
directions from EVERYPOINT of
the antenna."
It meens for me that they are longitudinal. In ALL directions like
acoustics. From EVERYPOINT (of the end). In today's antennas before the end
are cabels in which the current oscyllates. EM waves radiate from this part
of the circuit where the current oscillate (in end no current). In the end
the electrons gathers periodically and radiate alternate electric field in
ALL directions.
Has it sense?
S*
>
> So why do you post here?

Is another group on antennas?
S*

3109. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 18:11:34 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gummmagsc1@node1.news.atman.pl>
Source record: 15583

"Cecil Moore" <nospam@w5dxp.com> wrote
news:%vzPl.16692$pr6.10402@flpi149.ffdc.sbc.com...
> Szczepan Biaďż˝ek wrote:
>> Heck, only a few years ago they said a
>> particle could exist without mass.

It wrote Art.
>
> Photons have zero *rest* mass. If they had mass at
> rest, they could not travel at the speed of light.
> The mass of a photon is due to its velocity, c in
> free space. When a photon slows to less than the speed
> of light in a medium, it gives up its energy to another
> particle, e.g. an electron, and disappears.
>
>> 3. Photons
>
> EM radiation from amateur radio antennas is photonic.
> RF energy is supplied to the antenna system by our
> transmitters. Free electrons are accelerated and
> decelerated. Photons are emitted and absorbed by
> those free electrons. Some of the photons escape
> into space as coherent radiation.
>
> One can learn a lot about EM waves by understanding
> the nature of photons. For instance, standing waves
> consist of photons that cannot stand still. The
> illusion of a "standing" wave is just two waves of
> photons moving in opposite directions at the speed
> of light. Photons are not like mashed potatoes.

Are photons like transverse wave or like longitudinal?
S*

3110. Re: Low angle radiation skip

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 18:19:23 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <2feac073-f23f-4b57-8a08-cccda4fc0c8f@t10g2000vbg.googlegroups.com>
Source record: 15584

On May 16, 11:57 am, Art Unwin <ArthurUn...@gmail.com> wrote:
> In the good old days of multi sunspots it was not unusual for 10 M
> skip
> ducting all around the World to the point of emmission about one
> second later. Ofcourse 10M provides a low TOA. Which brings up a
> question, what is the lowest angle known for a particular skip
> distance or where can one find reference to such? Low angle take off
> have to deal with the grazing action as well as the point of change
> over from reflection and ducting as well as absorbtion and the ground
> hugging phenomina. But at the back of my mind I seem to remember an
> instance where a dish was able to obtain low angle television(big,
> big dish) which I seem to remember was not temperature related.
> Anybody got any comments that they have read in the past with respect
> to low angle take off, limits e.t.c.?
> Regards
> Art

Maybe I should limit this post to dish antennas which are more able to
be verified
Regards
Art

3111. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 18:19:52 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <rtDPl.22439$as4.20876@nlpi069.nbdc.sbc.com>
Source record: 15585

Szczepan Biaďż˝ek wrote:>>
>
> It is not mine. It is by Ampere, Gauss, Weber, Helmholtz and many other
> prominent scientists.
> Helmholtz wrote the same equations for whirls in fluids. Maxwell admited
> it in his Treatise "On line of forces".
> So EM is the hydraulic analogy. Now for electrons the Gas analogy is
> better.
> I am only a kibitzer.
> S*
>

An appeal to long-dead authorities? Where have we seen this before? The
logic seems to be: I cherry-picked a few ideas from the masters,
therefore they all agree with me. Chased you out of the physics
newsgroup did they Bialek?
73,
Tom Donaly, KA6RUH

3112. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 18:37:46 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <2KDPI.10573$im1.1018@nlpi061.nbdc.sbc.com>
Source record: 15586

Szczepan Biaďż˝ek wrote:
>
> Uďż˝ytkownik "Richard Clark" <kb7qhc@comcast.net> napisaďż˝ w wiadomoďż˝ci
> news:cvpt055agomba401t006f5um3rq7bnd7p9@4ax.com...
>> On Sat, 16 May 2009 09:00:56 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
>> wrote:
>>
>>>> But not by you, in 2009. Are you too bored with the topic to turn on
>>>> a radio to confirm?
>>>
>>> I took a glance on my very old radio (it has the all waves) yesterday.
>>
>> And you didn't even turn it on. Now THAT is lazy.
>>
>>> I collect evidences that Radio Waves are longitudinal.
>>
>> You are not actually "doing" anything at all.
>
> The most valuable was your statement: " An antenna radiates in ALL
> directions from EVERYPOINT of
> the antenna."
> It meens for me that they are longitudinal. In ALL directions like
> acoustics. From EVERYPOINT (of the end). In today's antennas before the
> end are cabels in which the current oscyllates. EM waves radiate from
> this part of the circuit where the current oscillate (in end no
> current). In the end the electrons gathers periodically and radiate
> alternate electric field in ALL directions.
> Has it sense?
> S*
>>
>> So why do you post here?
>
> Is another group on antennas?
> S*

No, it hasn't sense. You need to post on the physics newsgroup where
your ideas will be appreciated by all the self-anointed geniuses who
think they understand electro-magnetics. Nothing anyone writes here is
going to convince you you're wrong. People with pet theories never give
them up. This newsgroup has become a repository for flawed physical
theories. Maybe, someday, it will get back to being a forum for hams who
just want to discuss antennas.
73,
Tom Donaly, KA6RUH

3113. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 18:55:34 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <av2u055ppgvtlap13frv5ligkd2k5ghasr@4ax.com>
Source record: 15587

On Sat, 16 May 2009 20:11:34 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>> One can learn a lot about EM waves by understanding
>> the nature of photons. For instance, standing waves
>> consist of photons that cannot stand still. The
>> illusion of a "standing" wave is just two waves of
>> photons moving in opposite directions at the speed
>> of light. Photons are not like mashed potatoes.
>
>Are photons like transverse wave or like longitudinal?

Do two trolls' imaginary contributions resonate at the interface?

73's
Richard Clark, KB7QHC

3114. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 18:59:51 UTC
From: Dave <noone@nowhere.com>
Message-ID: <H2EPl.1495$wR5.244@nwrddc02.gnilink.net>
Source record: 15588

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gummas$gr4$1@node1.news.atman.pl...
> Has it sense?

no

3115. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 19:49:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <6h5u05ta3v5c9r3lgkpie1q146oli6ifee@4ax.com>
Source record: 15589

On Sat, 16 May 2009 20:05:28 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>The most valuable was your statement: " An antenna radiates in ALL
>directions from EVERYPOINT of
>the antenna."
>It meens for me that they are longitudinal.

Well, no one expects you to explain that, much less that you
understand it yourself.

>> So why do you post here?
>
>Is another group on antennas?

What would that matter? It is obvious you are not really interested
in antennas - you clearly avoid the discussion of that topic.

So why do you post here?

73's
Richard Clark, KB7QHC

3116. WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 21:40:51 UTC
From: kaka <l.l.l.l.2222l@hotmail.com>
Message-ID: <8de89929-ed00-4dca-9fcd-b6a14ba2501a@l28g2000vba.googlegroups.com>
Source record: 15590

WHAT IS ISLAM?

Can we find an explanation of the great universe? Is there any convincing interpretation of the secret of existence? We realize that no family can function properly without a responsible head, that no city can prosperously exist without sound administration, and that no state can survive without a leader of some kind. We also realize that nothing comes into being on its own. Moreover, we observe that the universe exists and functions in the most orderly manner, and that it has survived for hundreds of thousand of years. Can we then say that all this is accidental and haphazard? Can we attribute the existence of man and the whole world to mere chance.

Man represents only a very small portion of the great universe. And if he can make plans and appreciate the merits of planning, then his own existence and the survival of the universe must also be a planned policy. This means that there is an extraordinary power to bring things into being and keep them moving in order.

In the world then must be a great force in action to keep everything in order. In the beautiful nature there must be a Great creator who creates the most charming pieces of art produces every thing for a special purpose in life. The deeply enlightened people recognize this creator and call him Allah "God". He is not a man because no man can create or make another man. He is not an animal, nor he is a plant. He is neither an Idol nor is He a statue of any kind because non of these things can make itself or create anything else. He is different from all these things because he is the maker and keeper of them all. The maker of anything must be different from and greater than things which he makes.

There are various ways to know God "ALLAH'' and there are many things to tell about him. The great wonders and impressive marvels of the world are like open books in which we can read about God. Besides, God Himself comes to our aid through the many Messengers and revelations He has sent down to man. These Messengers and revelations tell us everything we need to know about God.

The complete acceptance of the teachings and guidance of God 'Allah' as revealed to His Messengers Muhammad is the religion of Islam. Islam enjoins faith in the oneness and sovereignty of Allah, which makes man aware of meaningfulness of the Universe and of his place in it. This belief frees him from all fears and superstitions by making him conscious of the presence of the Almighty Allah and of man's obligations towards Him. This faith must be expressed and tested in actions, faith alone is not enough. Belief in one God requires that we

look upon all humanity as one family under the universal Omnipotence of God the Creator and Nourisher of all. Islam rejects the idea of chosen people, making belief in God and good actions the only way to heaven. Thus, a direct relationship in established with God, without any intercessor.

Islam is not a new religion. It is, in essence, the same message and guidance which Allah revealed to all Prophets. Adam, Noah, Abraham, Ismael, David, Moses and Jesus (PBUT). But the message which was revealed to Prophet Mohammed (PBUT) is Islam in its comprehensive, complete and final form.

The Quran is the last revealed word of Allah and the basic source of Islamic teachings and laws. The Quran deals with the basis of creeds, morality, history of humanity, worship, knowledge, wisdom, God-man relationship, and human relationship in all aspects. Comprehensive teaching on which, can be built sound systems of social justice, economics, politics, legislation, jurisprudence, law and international relations, are important contents of the Quran. Hadith, the teachings, sayings and actions of Prophet Mohammed (PBUT), meticulously reported and collected by his devoted companions. Explained and elaborated the Quranic verses.

THE FUNDAMENTAL ARTICLES OF FAITH IN ISLAM

The true faithful Muslim believes in the following Principal articles of faith:-

He believes in One God 'Allah', Supreme and Eternal, Infinite and Mighty, Merciful and Compassionate, Creator and Provider.
He believes in all Messengers of God without any discrimination among them. Every known nation had a warner or Messenger from God. They were chosen by God to teach mankind and deliver His divine message. The Quran mentions the name of twenty five of them. Among them Mohammad stands as the last Messenger and the crowning glory of the foundation of Prophethood.
Muslin believes in all scriptures and revelations of God. They were the guiding light which the Messengers received to show their respected peoples the Right Path of God. In the Quran a special reference is made to the books of Abraham, Moses, David and Jesus. But long before the revelations has been lost or corrupted. The only authentic and complete book of God in existence in the Quran.
The true Muslim believes in the Angels of Allah. They are purely spiritual and splendid beings whose nature requires on food, drink or sleep. They spend their days and nights in the worship of God.
Muslim believes in the last Day of Judgement. This world will come to an end someday, and the dead will rise to stand for their final and fair trial. People with good records will be generously, rewarded and warmly welcomed to the Heaven of Allah, and those with bad records will be punished and cast into Hell.
Muslim believes in the timeless knowledge of God and His power to plan and execute His planes and nothing could happen in His Kingdom against

His will. His knowledge and power are in action at all times and command over His creation. He is wise and merciful, and whatever He does must have a meaningful purpose. If this is established in our mind and hearts, we should accept with good faith all that He does, although we may fail to under stand it fully, or think it is bad.
THE FIVE PILLARS OF ISLAM

Faith without actions arid practice is a dead end, as far as Islam is concerned. Faith by nature is very sensitive and can be most effective. When it is not out of practice or out of use, it quickly loses its liveliness and motivation power.

There are five pillars of Islam:

The declaration of faith: To bear witness that there is none worthy of worship except Allah, and that Mohammad (PBUH) is His Messenger to all human beings till the Day of Judgment. The Prophethood of Mohammad obliges the Muslims to follow, His exemplary life as a model.
Prayers: Daily, prayers are offered five times a day as a duty towards Allah. They strengthen and enliven the belief in Allah and inspire man to a higher morality. They purify the heart and prevent temptation towards wrong - doings and evil.
Fasting the month of Ramadan. The Muslims during the month of Ramadan not only abstain from food, drink and sexual intercourse from dawn to sunset but also sincerity and devotion. It develops a sound social conscience, patience, unselfishness and will - Power.
Zakkah: The literal and simple meaning of Zakkah is purity. The technical meaning of this word designates the annual amount in kind or coin which a Muslim with means must distribute among the rightful beneficiaries. But the religious and spiritual significance of Zakkah is much deeper and more lively. So it has humanitarian and sociopolitical values.
Hajj (Pilgrimage to Makkah): It is to be performed once in a lifetime, if one can afford it financially and physically.
:
http://www.islam-guide.com
http://www.thetruereligion.org
http://www.it-is-truth.org
http://www.beconvinced.com
http://www.plaintruth.org
http://english.islamway.com
http://www.todayislam.com
http://www.prophetmuhammed.org
http://www.islamtoday.net/english/
http://www.islamunveiled.org
http://www.islamic-knowledge.com

We willingly recive any inquries at the e-mail :

3117. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 22:27:18 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9C0D9D3A41276greederxprtnet@194.177.98.144>
Source record: 15591

kaka <l.l.l.l.2222l@hotmail.com> wrote in news:8de89929-ed00-4dca-9fcd-b6a14ba2501a@l28g2000vba.googlegroups.com:

> WHAT IS ISLAM?

A radical new antenna design??

3118. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 23:43:21 UTC
From: "Bruce W. Ellis" <ellis@means.net>
Message-ID: <vqju055mgqcb9hgv4ejug0ipcdhe8emkg2@4ax.com>
Source record: 15593

On 17 May 2009 00:27:18 +0200, Gordon <gonzo@alltomyself.com> wrote:

>kaka <l.l.l.l.2222l@hotmail.com> wrote in news:8de89929-ed00-4dca-9fcd-
>b6a14ba2501a@l28g2000vba.googlegroups.com:
>
>> WHAT IS ISLAM?
>
>A radical new antenna design??

I slam the ionoshpere with my powerful signal?

3119. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-16 23:43:27 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <wclPl.44621$Rf7.7725@newsfe21.iad>
Source record: 15592

Szczepan Bialek,

I think I speak for the collective readership when I say we are tired of your erroneous arguments about frequency doubling and its causes.

You evidently have read a little about the Luxembourg effect, but you failed to read the hundreds of articles available on the Internet on this subject. I suspect your problem is one of language and adolescent stubbornness combined.

To make things simple for you, do your search on "Ionospheric Cross Modulation". This is defined by the IEC (Commission Electrotechnique Internationale) in their IEC 60050 International Electrotechnical Vocabulary as:

Ionospheric Cross Modulation, Luxembourg effect ?
the modulation of a radio wave by the modulating signal of another wave having a different frequency, resulting from NON-LINEAR PHENOMENA in a region of the ionosphere through which both waves pass.

Or if French is easier for you to read:

Transmodulation Ionosph?rique, effet Luxembourg ? modulation d'une onde radio?lectrique par le signal modulant d'une autre onde de fr?quence diff?rente, qui r?sulte D'EFFETS NON-LIN?AIRES dans une r?gion de l'ionosph?re travers?e par les deux ondes.

Note the emphasized words. Non-linearity of the D-layer of the ionosphere is quite well understood today. In fact, most of the initial mechanism was known before the Second World War. In the late 1940's and in the 1950's, theories were improved as different modes of propagation were studied. Today we find that this ionospheric cross modulation effect has become a tool to study the lower ionosphere.

For some good reading on this subject, I suggest reading "An Introduction to the Ionosphere and Magnetosphere" by John Ashworth Ratcliffe. Much of this book can be read using Google Book Search. Another work found on the Web is the PhD dissertation of Mehmet K?rsad Demirkol from Stanford University (http://www-star.stanford.edu/~vlf/publications/theses/DermikolThesis.pdf). Quoting from his abstract:

Electron density and temperature changes in the D-region are sensitively manifested as changes in the amplitude and phase of subionospheric Very Low Frequency (VLF) signals propagating beneath the perturbed region. Both localized and large scale disturbances (either in electron density or temperature) in the D-region cause significant scattering of VLF waves propagating in the earth-ionosphere waveguide, leading to measurable changes in the amplitude and phase of the VLF waves. Large scale auroral disturbances, associated with intensification of the auroral electrojet, as well as ionospheric disturbances produced during relativistic electron enhancements, cause characteristic changes over relatively long time scales that allow the assessment of the 'ambient' ionosphere. Localized ionospheric disturbances are also produced by powerful HF transmitting facilities such as the High Power Auroral Stimulation (HIPAS) facility, the High frequency Active Auroral Research Program (HAARP*), and also by lightning discharges. Amplitude and phase changes of VLF waveguide signals scattered from such artificially heated ionospheric patches are known to be detectable.

Nowhere in all of the respected literature will you find frequency doubling caused by the two ends of a dipole. In fact, the end "balls" of Hertz's experiments were nothing more than capacitance hats. The experiment would have worked perfectly well without them.

You have pushed the patience to the breaking point of many of this newsgroup's readers, including some experts far more knowledgeable in electromagnetics than myself. Expletives from these people, while certainly deserved, are not needed. Until Szczepan does his research on ionospheric cross modulation, I suggest that we just ignore him (or use a killfile).

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

* This group is also not the place to bring up conspiracy theories involving this research program.

3120. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 00:45:09 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <47nu05d7gi71t1h6473ndkn2b9fdubt9bu@4ax.com>
Source record: 15594

On Sat, 16 May 2009 19:43:27 -0400, "Dr. Barry L. Ornitz"
<BLOrnitz48@charter.net> wrote:

>I suspect your problem is one of language
>and adolescent stubbornness combined.

Hi Barry,

I suspect you would be wrong on two counts, but that is of no
importance.

> frequency Active Auroral Research Program (HAARP*), and also by

>* This group is also not the place to bring up conspiracy theories
>involving this research program.

Good resources that will add to our composite knowledge. I will
browse them. As for HAARP, that "controversy" has faded considerable
from its first incendiary introduction years ago. I wonder if Stephan
will pick up on its implications.

73's
Richard Clark, KB7QHC

3121. What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 04:25:24 UTC
From: MacaualyFlower <macaulay.flower@hotmail.com>
Message-ID: <eac83182-542b-4a56-9ad4-630cf61104dd@w35g2000prg.googlegroups.com>
Source record: 15595

I know that there is some concern that cell phones may cause cancer.
But is there any possible correlation between the radio waves we use
to communicate, either by commercial radio or other sources and
cancer? Or what about the radio waves that are being emitted from our
personal electronic appliances? I have heard that there is some
concern that if you live near a power line that you may be at risk for
cancer. What is the state of research into this subject?

Thanks

3122. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 05:07:17 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <tk5v05h1fgdfg0getd3edi29ivakgvs4h5@4ax.com>
Source record: 15596

On Sat, 16 May 2009 21:25:24 -0700 (PDT), MacaualyFlower
<macaulay.flower@hotmail.com> wrote:

>I know that there is some concern that cell phones may cause cancer.
>But is there any possible correlation between the radio waves we use
>to communicate, either by commercial radio or other sources and
>cancer? Or what about the radio waves that are being emitted from our
>personal electronic appliances? I have heard that there is some
>concern that if you live near a power line that you may be at risk for
>cancer. What is the state of research into this subject?

This has what to do with amateur radio or antennas?

I covered the topic about 2 years ago in:
<http://groups.google.com/group/alt.internet.wireless/msg/fd25bae4b3f10c13>
The US incidence rate for brain and central nervous system cancers has
been fairly flat at about 6-7 cases per 100,000 population per year
since about 1975 (SEER 9). It's kinda difficult to pry a usable graph
out of the web pile, so I ran the "fast stats" for long term brain
cancer, for all age and ethnic groups. See:
<http://802.11junk.com/jeffl/crud/brain-CNS-cancer.jpg>
(Note that the incidence of brain cancer is actually decreasing with
time). If there were a correlation between cell phone use and cancer,
one would expect to see at least a nominal rise in brain cancer
incidence, as cell phone use has dramatically increased the same time
period.

The current FCC position on RF safety is at:
<http://www.fcc.gov/oet/rfsafety/>
<http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet60/oet60a.pdf>

Your risk of dying from a vehicle accident, while driving and talking
on a cell phone, is far greater than the alleged risk of contracting
cancer.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3123. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 05:12:57 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <547v05lce015scppnevq1r050l6rhp3eee@4ax.com>
Source record: 15597

On Sat, 16 May 2009 22:07:17 -0700, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>I covered the topic about 2 years ago in:
><http://groups.google.com/group/alt.internet.wireless/msg/fd25bae4b3f10c13>
>The US incidence rate for brain and central nervous system cancers has
>been fairly flat at about 6-7 cases per 100,000 population per year
>since about 1975 (SEER 9). It's kinda difficult to pry a usable graph
>out of the web pile, so I ran the "fast stats" for long term brain
>cancer, for all age and ethnic groups. See:
><http://802.11junk.com/jeffl/crud/brain-CNS-cancer.jpg>

Sorry, I forgot to include the URL of the cancer data:
<http://seer.cancer.gov/faststats/selections.php?series=cancer>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3124. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 05:50:04 UTC
From: MacaualyFlower <macaulay.flower@hotmail.com>
Message-ID: <3deacd7c-bbb9-47f6-a916-9a58d1fe2fb6@y10g2000prc.googlegroups.com>
Source record: 15598

> This has what to do with amateur radio or antennas?

Amateur radio uses radio waves, and I believe that antennas propagate
them and receive them don't they?

But in any case, I thank you for your answer.

3125. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 06:25:58 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <utav05lp6j0hr2mg293hr51flqsccd8770@4ax.com>
Source record: 15599

On Sat, 16 May 2009 21:25:24 -0700 (PDT), MacaualyFlower
<macaulay.flower@hotmail.com> wrote:

>I know that there is some concern that cell phones may cause cancer.

Actually, there is probably a higher correlation between cancer and
talking into your hand.

>But is there any possible correlation between the radio waves we use
>to communicate, either by commercial radio or other sources and
>cancer?

You could almost pump the odds to 100% by standing in front of an open
microwave ever day. Now, if I were to move that 1 in the 100 to the
right by 5 places (0.001%) would you feel better, or worse? What if
it were less than your chances for being hit by a car by simply
stepping out of your house? Not exactly cancer there, I will admit,
and perhaps a more compelling outcome (you might live another 20 years
with cancer, but only 15 minutes more impaled as a hood ornament).

>Or what about the radio waves that are being emitted from our
>personal electronic appliances?

We have entered the realm of getting out of bed to suffer being struck
by a comet.

>I have heard that there is some
>concern that if you live near a power line that you may be at risk for
>cancer.

Can you name 5 people (not related to each other) who do not live near
a power line? With luck, they will die of Heart disease first. For
most of us, that line is no further than 8 feet away.

>What is the state of research into this subject?

Settled. Of course, there are those who thrill to the thought of a
slow death like Camille's. Those romantics generally seek out
confirmatory evidence. Research, for their benefit, marches on.

73's
Richard Clark, KB7QHC

3126. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 08:19:38 UTC
From: "Helmut Wabnig"
Message-ID: <g3iv05dhngaqsk1okjapjdrp2f702jsk8i@4ax.com>
Source record: 15600

On Sat, 16 May 2009 14:40:51 -0700 (PDT), kaka
<l.l.l.l.2222l@hotmail.com> wrote:

> WHAT IS ISLAM?
>
>
(snip crap)

BULLSHIT!

w.

3127. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 09:10:10 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guobatmnh1@node1.news.atman.pl>
Source record: 15401

"Dave Platt" <dplatt@radagast.org> wrote news:1u83e6-95k.ln1@radagast.org...
>
> In article <gulhpe$cl4$1@node1.news.atman.pl>,
> Szczepan Biaďż˝ek <sz.bialek@wp.pl> wrote:
>
>>Sometimes the screen on TV or cinema is perfectly white. This in cinema
>>reflect. This reflected light splitted with the prism has only three
>>frequences?
>
> They're likely to be three bands of frequencies rather than three
> narrow single-frequency lines, because the technologies used to create
> the frequencies aren't narrow-band. But, yes, what you are seeing as
> "perfectly white" under these circumstances is often *not* a smooth,
> continuous spectrum.

I was thinking that some transparent and semitransparent substances are
phosphorescent (some time in dark) but ALL are less or more fluorescent
(rework frequency). Rube in laser rewoork into one. But in laser are many
passes. But what happens in one pass?
May be that it rework also but only a little.

Raman discovered that some substances can rework one frequency into many
(also in higher).
May be that a cotton screan also rework.
>
> In the case of a TV screen, you're seeing either:
>
> - The mixed emissions of a set of red, green, and blue phosphors,
> individually excited by electron beams [for CRT displays], or
>
> - The emission from the phosphors of a cold-cathode fluorescent
> backlighting lamp (a complex spectrum with multiple peaks) filtered
> through red, green, and blue pixel-sized filters (for most LCD
> tubes).
>
> In traditional film cinema, you're seeing the emissions of an
> incandescent or halogen bulb (fairly continuous spectrum) filtered
> through three colors of dye in the film print.
>
> The fact that these complex mixtures of overlapping color spectra can
> look "pure white" to our eyes, is due in large part to our complex
> nervous systems. Our eye/brain systems adapt to the mix of colors
> present under differnet lighting conditions, and interpret different
> combinations as "pure white" depending on what's available at the time.

Yes. But for me is interesting the phenomenon at reflecting, scatering and refraction. May be that "polarisation" is an effect of that.

> This is why, for example, indoor fluorescent lighting can actually
> look half-decent to our eyes once we get used to it (we "see" a fairly
> complete range of colors there) but what looks "white" to use under
> fluorescents will actually have a distinctly greenish cast to a film
> or digital camera.
>
> It's also why a rather curious phenomenon can be demonstrated. The
> *exact* same mix of color emissions may look very different to us,
> under different ambient lighting conditions... what might look
> greenish outdoors will look pure white or even slightly pinkish under
> indoor fluorescent lighting, because our brains *interpret* that input
> differently due to the different surroundings.

Is the light polarisation the hard prove that light vaves are transversal?
S*

> --
> Dave Platt <dplatt@radagast.org> AE6EO
> Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
> I do _not_ wish to receive unsolicited commercial email, and I will
> boycott any company which has the gall to send me such ads!

3128. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 09:23:22 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guoc3imps1@node1.news.atman.pl>
Source record: 15402

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote
news:rtDPl.22439$as4.20876@nlpi069.nbdc.sbc.com...
> Szczepan Biaďż˝ek wrote:>>
>>
>> It is not mine. It is by Ampere, Gauss, Weber, Helmholtz and many other
>> prominent scientists.
>> Helmholtz wrote the same equations for whirls in fluids. Maxwell admited
>> it in his Treatise "On line of forces".
>> So EM is the hydraulic analogy. Now for electrons the Gas analogy is
>> better.
>> I am only a kibitzer.
>> S*
>>
>
> An appeal to long-dead authorities? Where have we seen this before? The
> logic seems to be: I cherry-picked a few ideas from the masters, therefore
> they all agree with me. Chased you out of the physics newsgroup did they
> Bialek?

Chased out. No. Physics newsgroup is nice but there are all branches. Too
many posts, to many posters. Now I am in the subgroups: new theory and EM.
I am interesting in unifying gravity, electricity and magnetism. The
unifying is done by Aepinus and Ampere. I agree with them. But I understand
that as seperate are better to teach.
I also agree with Helmholtz that light waves are longitudinal.
With him do you agree?
S*

3129. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 09:24:20 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guoc5c$mq1$1@node1.news.atman.pl>
Source record: 15403

Uďż˝ytkownik "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> napisaďż˝ w
wiadomoďż˝ci news:wcIPl.44621$Rf7.7725@newsfe21.iad...
> Szczepan Bialek,
>
> I think I speak for the collective readership when I say we are
> tired of your erroneous arguments about frequency doubling and its
> causes.
>
> You evidently have read a little about the Luxembourg effect, but
> you failed to read the hundreds of articles available on the
> Internet on this subject. I suspect your problem is one of language
> and adolescent stubbornness combined.
>
> To make things simple for you, do your search on "Ionospheric Cross
> Modulation". This is defined by the IEC (Commission
> Electrotechnique Internationale) in their IEC 60050 International
> Electrotechnical Vocabulary as:
>
> Ionospheric Cross Modulation, Luxembourg effect dďż˝
> the modulation of a radio wave by the modulating signal of
> another wave having a different frequency, resulting from
> NON-LINEAR PHENOMENA in a region of the ionosphere through
> which both waves pass.
>
> Or if French is easier for you to read:
>
> Transmodulation Ionosphďż˝rique, effet Luxembourg dďż˝ modulation
> d'une onde radioďż˝lectrique par le signal modulant d'une autre
> onde de frďż˝quence diffďż˝rente, qui rďż˝sulte D'EFFETS
> NON-LINďż˝AIRES dans une rďż˝gion de l'ionosphďż˝re traversďż˝e par
> les deux ondes.
>
> Note the emphasized words. Non-linearity of the D-layer of the
> ionosphere is quite well understood today. In fact, most of the
> initial mechanism was known before the Second World War. In the
> late 1940's and in the 1950's, theories were improved as different
> modes of propagation were studied. Today we find that this
> ionospheric cross modulation effect has become a tool to study the
> lower ionosphere.
>
> For some good reading on this subject, I suggest reading "An
> Introduction to the Ionosphere and Magnetosphere" by John Ashworth
> Ratcliffe. Much of this book can be read using Google Book Search.
> Another work found on the Web is the PhD dissertation of Mehmet

> Kďż˝rsad Demirkol from Stanford University
> (http://www-star.stanford.edu/~vlf/publications/theses/DermikolThesis.pdf).
> Quoting from his abstract:
>
> Electron density and temperature changes in the D-region are
> sensitively manifested as changes in the amplitude and phase
> of subionospheric Very Low Frequency (VLF) signals
> propagating beneath the perturbed region. Both localized and
> large scale disturbances (either in electron density or
> temperature) in the D-region cause significant scattering of
> VLF waves propagating in the earth-ionosphere waveguide,
> leading to measurable changes in the amplitude and phase of
> the VLF waves. Large scale auroral disturbances, associated
> with intensification of the auroral electrojet, as well as
> ionospheric disturbances produced during relativistic
> electron enhancements, cause characteristic changes over
> relatively long time scales that allow the assessment of the
> 'ambient' ionosphere. Localized ionospheric disturbances are
> also produced by powerful HF transmitting facilities such as
> the High Power Auroral Stimulation (HIPAS) facility, the High
> frequency Active Auroral Research Program (HAARP*), and also by
> lightning discharges. Amplitude and phase changes of VLF
> waveguide signals scattered from such artificially heated
> ionospheric patches are known to be detectable.
>
> Nowhere in all of the respected literature will you find frequency
> doubling caused by the two ends of a dipole. In fact, the end
> "balls" of Hertz's experiments were nothing more than capacitance
> hats. The experiment would have worked perfectly well without them.
>
> You have pushed the patience to the breaking point of many of this
> newsgroup's readers, including some experts far more knowledgeable
> in electromagnetics than myself. Expletives from these people,
> while certainly deserved, are not needed. Until Szczepan does his
> research on ionospheric cross modulation, I suggest that we just
> ignore him (or use a killfile).
>
> --
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnitz48@charter.net
>
> * This group is also not the place to bring up conspiracy theories
> involving this research program.
>

3130. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 09:40:21 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guod3dmva1@node1.news.atman.pl>
Source record: 15404

"Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> wrote
news:wcIPl.44621$Rf7.7725@newsfe21.iad...
> Szczepan Bialek,
>
> I think I speak for the collective readership when I say we are
> tired of your erroneous arguments about frequency doubling and its
> causes.
>
> You evidently have read a little about the Luxembourg effect, but
> you failed to read the hundreds of articles available on the
> Internet on this subject. I suspect your problem is one of language
> and adolescent stubbornness combined.

I am retired and very lazy.
>
> To make things simple for you, do your search on "Ionospheric Cross
> Modulation". This is defined by the IEC (Commission
> Electrotechnique Internationale) in their IEC 60050 International
> Electrotechnical Vocabulary as:
>
> Ionospheric Cross Modulation, Luxembourg effect dż″
> the modulation of a radio wave by the modulating signal of
> another wave having a different frequency, resulting from
> NON-LINEAR PHENOMENA in a region of the ionosphere through
> which both waves pass.
>
> Or if French is easier for you to read:
>
> Transmodulation Ionosphdż″rique, effet Luxembourg dż″ modulation
> d'une onde radiodż″lectrique par le signal modulant d'une autre
> onde de frdż″quence diffdż″rente, qui rdż″sulte D'EFFETS
> NON-LINdż″AIRES dans une rdż″gion de l'ionosphdż″re traversdż″e par
> les deux ondes.
>
> Note the emphasized words. Non-linearity of the D-layer of the
> ionosphere is quite well understood today. In fact, most of the
> initial mechanism was known before the Second World War. In the
> late 1940's and in the 1950's, theories were improved as different
> modes of propagation were studied. Today we find that this
> ionospheric cross modulation effect has become a tool to study the
> lower ionosphere.
>
> For some good reading on this subject, I suggest reading "An
> Introduction to the Ionosphere and Magnetosphere" by John Ashworth

> Ratcliffe. Much of this book can be read using Google Book Search.
> Another work found on the Web is the PhD dissertation of Mehmet
> Kďż˝rsad Demirkol from Stanford University
> (http://www-star.stanford.edu/~vlf/publications/theses/DermikolThesis.pdf).
> Quoting from his abstract:
>
> Electron density and temperature changes in the D-region are
> sensitively manifested as changes in the amplitude and phase
> of subionospheric Very Low Frequency (VLF) signals
> propagating beneath the perturbed region. Both localized and
> large scale disturbances (either in electron density or
> temperature) in the D-region cause significant scattering of
> VLF waves propagating in the earth-ionosphere waveguide,
> leading to measurable changes in the amplitude and phase of
> the VLF waves. Large scale auroral disturbances, associated
> with intensification of the auroral electrojet, as well as
> ionospheric disturbances produced during relativistic
> electron enhancements, cause characteristic changes over
> relatively long time scales that allow the assessment of the
> 'ambient' ionosphere. Localized ionospheric disturbances are
> also produced by powerful HF transmitting facilities such as
> the High Power Auroral Stimulation (HIPAS) facility, the High
> frequency Active Auroral Research Program (HAARP*), and also by
> lightning discharges. Amplitude and phase changes of VLF
> waveguide signals scattered from such artificially heated
> ionospheric patches are known to be detectable.
>
> Nowhere in all of the respected literature will you find frequency
> doubling caused by the two ends of a dipole.

So I do not have to read the above.

>In fact, the end
> "balls" of Hertz's experiments were nothing more than capacitance
> hats. The experiment would have worked perfectly well without them.

It is impossible to make the dipole without ends.
>
> You have pushed the patience to the breaking point of many of this
> newsgroup's readers, including some experts far more knowledgeable
> in electromagnetics than myself. Expletives from these people,
> while certainly deserved, are not needed. Until Szczepan does his
> research on ionospheric cross modulation, I suggest that we just
> ignore him (or use a killfile).

I encourage ALL you to make proper experiments with the "frequency doubling
caused by the two ends of a dipole."
See discussion with Wim:

">Hello Szczepan,

>You are right, charge is compressible. The charge that is required to
charge (for example) a sphere seems

Seems or unquestionable?

> to break the coninuity equition as
is used for incompressible fluid in hydraulics.

>Continuity in electromagnetism is regained by introducing the D-field
(dielectric displacement). The D-field is responsible for the
capacitive current in case of varying E-field.

So in your products is the dielectric displacement or compressed electrons?

>Regarding frequency doubling. We can be lucky. Antennas and
propagation behaves in virtually all cases linearly. From linear
systems you might know that input and output frequency are the same,
so no doubling in frequency.

Try understand me. Your Hertz dipole emits electrc waves from the TWO ends
(opposite phases). So the electrons in a receiving antenna are kicked twice
more frequent.

>In case of non-linear parts in a system (for example a corroded
connector in an antenna cable that is used by two or more
transmitters, that may behave as a semiconductor), you might get so
called mixer products (sum frequencies, harmonics, difference
frequencies, etc).

Harmonics may be the reason that nobody have seen the Phenomenon.

>If you would like to know more about EM-fields related to antennas and
electronics, just start with classical EM theory. This is a solid
tool, existing over 100 years and is used by many people with succes
to predict behaviour of circuits and antennas. If this will change of
today, I will close my business activities next monday.

EM existing over 100 years and will be used the next as the "piece to
teach".
Your business base on experiments.
Now You have the opportunity to make the most famous experiment in the
history.
If the result will be null I will change my hobby."
S*

>
> --
> 73, Dr. Barry L. Ornitz WA4VZQ
> BLOrnitz48@charter.net
>
> * This group is also not the place to bring up conspiracy theories
> involving this research program.
>

3131. Compaq Presario Ram

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 09:55:39 UTC
From: Angelucci@irvin.com
Message-ID: <4a105dc4$0$25043$586e9bf6@usenetnow.com>
Source record: 15423

Compaq Presario CQ60-210US 15.6-Inch Laptop (2.0 GHz AMD Athlon X2 QL-62 Dual-Core Processor, 2 GB RAM, 250 GB Hard Drive, DVD Drive, Vista Premium)
Price:$765.00
Image: http://bestdealfinder.us/image.php?id=B001NPDKVM
Best deal: http://bestdealfinder.us/index.php?id=B001NPDKVM

Compaq Presario SR5605F Desktop PC (2.7 GHz AMD Athlon LE-1640 Single-Core Processor, 1 GB RAM, 250 GB Hard Drive, DVD Drive, Vista Premium)
Price:$435.00
Image: http://bestdealfinder.us/image.php?id=B001FYLITC
Best deal: http://bestdealfinder.us/index.php?id=B001FYLITC

Kingston 512MB DDR MODULE FOR COMPAQ
Price:$48.00
Image: http://bestdealfinder.us/image.php?id=B00006HP7A
Best deal: http://bestdealfinder.us/index.php?id=B00006HP7A

Compaq Presario CQ70-120US 17-Inch Laptop (2.0 GHz Intel Pentium Dual-Core T3200 Processor, 3 GB RAM, 250 GB Hard Drive, DVD Drive, Vista Premium)
Price:$943.00
Image: http://bestdealfinder.us/image.php?id=B001GCUW22
Best deal: http://bestdealfinder.us/index.php?id=B001GCUW22

Kingston 512MB COMPAQ PRESARIO-2800US 266MHZ SODIMM
Price:$53.51
Image: http://bestdealfinder.us/image.php?id=B00006HXNY
Best deal: http://bestdealfinder.us/index.php?id=B00006HXNY

Compaq Presario V2000 HP Pavilion dv1000 dv1100 512MB 333MHz PC2700 DDR-SDRAM Memory -367774-001
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Best deal: http://bestdealfinder.us/index.php?id=B001155KJY

Compaq Presario C770US 15.4-inch Laptop (1.86 GHz Pentium Dual Core Mobile T2390 Processor, 2 GB RAM, 160 GB Hard Drive, DVD Drive, Vista Premium) Black
Price:$579.99
Image: http://bestdealfinder.us/image.php?id=B001B0AG2U
Best deal: http://bestdealfinder.us/index.php?id=B001B0AG2U

Memory-Up Exclusive 1GB DDR SO-DIMM Upgrade for Compaq Presario M Series M2000 M2000 M2033AP M2202AP M2203AP Notebook PC2700 Computer Memory (RAM)
Price:$48.96
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Best deal: http://bestdealfinder.us/index.php?id=B0025WFMHW

Compaq Presario C727US 15.4-inch Laptop (Intel Pentium Dual Core Processor T2310, 1 GB RAM, 120 GB Hard Drive, Vista Premium)
Price:$822.00
Image: http://bestdealfinder.us/image.php?id=B000VSAAJC
Best deal: http://bestdealfinder.us/index.php?id=B000VSAAJC

Compaq Presario CQ50Z 15.4-Inch Laptop (AMD Sempron SI-40 2.0Ghz, 2 GB RAM, 120 GB Hard Drive, DVD+-RW DL, 1.3mg Webcam, Vista Home Basic)
Price:$949.99
Image: http://bestdealfinder.us/image.php?id=B0018RW68I
Best deal: http://bestdealfinder.us/index.php?id=B0018RW68I

Compaq Presario CQ60-210US 15.6-Inch Laptop (2.0 GHz AMD Athlon X2 QL-62 Dual-Core Processor, 2 GB RAM, 250 GB Hard Drive, DVD Drive, Vista Premium)
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Compaq Presario V2000 HP Pavilion dv1000 dv1100 512MB 333MHz PC2700 DDR-SDRAM Memory -367774-001
Price:$35.00
Image: http://bestdealfinder.us/image.php?id=B001155KJY
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Price:$949.99
Image: http://bestdealfinder.us/image.php?id=B0018RW68I
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Price:$765.00
Image: http://bestdealfinder.us/image.php?id=B001NPDKVM
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Price:$435.00
Image: http://bestdealfinder.us/image.php?id=B001FYLITC
Best deal: http://bestdealfinder.us/index.php?id=B001FYLITC

Kingston 512MB DDR MODULE FOR COMPAQ
Price:$48.00
Image: http://bestdealfinder.us/image.php?id=B00006HP7A
Best deal: http://bestdealfinder.us/index.php?id=B00006HP7A

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Price:$943.00
Image: http://bestdealfinder.us/image.php?id=B001GCUW22
Best deal: http://bestdealfinder.us/index.php?id=B001GCUW22

Kingston 512MB COMPAQ PRESARIO-2800US 266MHZ SODIMM
Price:$53.51
Image: http://bestdealfinder.us/image.php?id=B00006HXNY
Best deal: http://bestdealfinder.us/index.php?id=B00006HXNY

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3132. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 09:56:42 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guoe22$n1q$1@node1.news.atman.pl>
Source record: 15405

"Richard Clark" <kb7qhc@comcast.net> wrote
news:6h5u05ta3v5c9r3lgkpie1q146oli6ifee@4ax.com...
> On Sat, 16 May 2009 20:05:28 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>The most valuable was your statement: " An antenna radiates in ALL
>>directions from EVERYPOINT of
>>the antenna."
>>It meens for me that they are longitudinal.
>
> Well, no one expects you to explain that, much less that you
> understand it yourself.

Next your statement: "Actually you have mixed up two different
characteristics. Polarity
and polarization are NOT the same thing. With RF radiation, the wave
is constantly changing polarity (that is why the source of RF is
called alternating current), but within the "line of sight" of the
antenna, the polarization for a dipole is defined by its angle to the
earth as viewed by the observer.

If you see an horizontal dipole, it produces alternating polarities of
waves with horizontal polarization. If you see a vertical dipole, it
produces alternating polarities of waves with vertical polarization.

RF energy is ALWAYS changing polarity."

May be I do not understund but it seems that polarization means orientation
of the dipole.
But are the waves transversal?

>
>>> So why do you post here?
>>
>>Is another group on antennas?
>
> What would that matter? It is obvious you are not really interested
> in antennas - you clearly avoid the discussion of that topic.

I am interesting in what antennas radiate.
>
> So why do you post here?

Here are experts.
S*

3133. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 10:11:26 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guoetm$n47$1@node1.news.atman.pl>
Source record: 15406

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote
news:2KDPl.10573$im1.1018@nlpi061.nbdc.sbc.com...
> Szczepan Biaďż˝ek wrote:
>>
>> Uďż˝ytkownik "Richard Clark" <kb7qhc@comcast.net> napisaďż˝ w wiadomoďż˝ci
>> news:cvpt055agomba401t006f5um3rq7bnd7p9@4ax.com...
>>> On Sat, 16 May 2009 09:00:56 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
>>> wrote:
>>>
>>>>> But not by you, in 2009. Are you too bored with the topic to turn on
>>>>> a radio to confirm?
>>>>
>>>> I took a glance on my very old radio (it has the all waves) yesterday.
>>>
>>> And you didn't even turn it on. Now THAT is lazy.
>>>
>>>> I collect evidences that Radio Waves are longitudinal.
>>>
>>> You are not actually "doing" anything at all.
>>
>> The most valuable was your statement: " An antenna radiates in ALL
>> directions from EVERYPOINT of
>> the antenna."
>> It meens for me that they are longitudinal. In ALL directions like
>> acoustics. From EVERYPOINT (of the end). In today's antennas before the
>> end are cabels in which the current oscyllates. EM waves radiate from
>> this part of the circuit where the current oscillate (in end no current).
>> In the end the electrons gathers periodically and radiate alternate
>> electric field in ALL directions.
>> Has it sense?
>> S*
>>>
>>> So why do you post here?
>>
>> Is another group on antennas?
>> S*
>
> No, it hasn't sense. You need to post on the physics newsgroup where your
> ideas will be appreciated by all the self-anointed geniuses who
> think they understand electro-magnetics. Nothing anyone writes here is
> going to convince you you're wrong.

It is not the case. I am asking about some details and some of you simply
give them me.

> People with pet theories never give them up.

Transversal vs. longitudinal is not theory. Next experiments are necessary.

>This newsgroup has become a repository for flawed physical theories. Maybe,
>someday, it will get back to being a forum for hams who just want to
>discuss antennas.

Is it something wrong if a visitors asks about something?
S*
> 73,
> Tom Donaly, KA6RUH

3134. Re: Be careful when using Excel

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 10:58:54 UTC
From: Alex Flinsch <avflinsch@hughes.net>
Message-ID: <O5SPI.44746$Rf7.35680@newsfe21.iad>
Source record: 15407

On Sat, 09 May 2009 08:18:08 -0700, Jeff Liebermann wrote:

>
> I haven't checked how Open Office 3 and others do it. My guess(tm) is
> that they all treat the negation operator the same as subtraction which
> would be (correctly) evaluated AFTER exponentiation, multiplication, and
> division.

12 in Excel
12 in Open Office
12 in iWork 09 Numbers

--
/Users/alex/Documents/Sigs/AB2RC

3135. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 12:21:53 UTC
From: Dave <noone@nowhere.com>
Message-ID: <BjTPl.1568$wR5.360@nwrddc02.gnilink.net>
Source record: 15408

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:guoetm$n47$1@node1.news.atman.pl...

> Is it something wrong if a visitors asks about something?

if you ask then you would be expecting an answer and learn from that answer.
you have ignored the responses you have received and kept going back to your
own theories based on analogies that don't fit. if you really want to learn
then read and accept the answers you have received.

3136. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 13:54:06 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <EDUPl.42802$qa.10985@bignews4.bellsouth.net>
Source record: 15409

So far, there is no correlation between non-ionizing radiation and cancer,
which includes cellphones in the 800 - 900 MHz band.

Ed, AJ4PJ

"MacaualyFlower" <macaulay.flower@hotmail.com> wrote in message
news:eac83182-542b-4a56-9ad4-630cf61104dd@w35g2000prg.googlegroups.com...
>I know that there is some concern that cell phones may cause cancer.
> But is there any possible correlation between the radio waves we use
> to communicate, either by commercial radio or other sources and
> cancer? Or what about the radio waves that are being emitted from our
> personal electronic appliances? I have heard that there is some
> concern that if you live near a power line that you may be at risk for
> cancer. What is the state of research into this subject?
>
> Thanks

3137. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 14:28:45 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%3VPl.19163$8_3.2719@flpi147.ffdc.sbc.com>
Source record: 15410

Szczepan Białż˝ek wrote:
> Are photons like transverse wave or like longitudinal?

The EM fields embodied by photons are transverse.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3138. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 14:32:02 UTC
From: Tom Donaly <dtdonaly@sbcglobal.net>
Message-ID: <V6VPl.19164$8_3.3264@flpi147.ffdc.sbc.com>
Source record: 15411

Szczepan Biaďż˝ek wrote:

>
> Is it something wrong if a visitors asks about something?
> S*
>> 73,
>> Tom Donaly, KA6RUH
>

It's wrong if the only answer you'll accept is the one you decided on
beforehand.
73,
Tom Donaly, KA6RUH

3139. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 16:41:36 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <aff015hcpl9mis8n3aibaq8jbs4dpv0t09@4ax.com>
Source record: 15412

On Sun, 17 May 2009 11:56:42 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>> So why do you post here?
>
>Here are experts.

Ah! and by posting here, you become first among equals.

Stephan, you are simply trolling and that is why you are here.

73's
Richard Clark, KB7QHC

3140. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 16:53:27 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <pbf015plc4f9pluo65c6kbmuffd5var7fn@4ax.com>
Source record: 15413

On Sat, 16 May 2009 22:50:04 -0700 (PDT), MacaualyFlower
<macaulay.flower@hotmail.com> wrote:

>> This has what to do with amateur radio or antennas?
>
>Amateur radio uses radio waves, and I believe that antennas propagate
>them and receive them don't they?
>
>But in any case, I thank you for your answer.

Ok. That's closer than most of the off topic rubbish the pollutes
most newsgroups. I can see you logic. After reading some of the
postings in this newsgroup, I too might suspect that exposure to RF
and antennas might produce insanity, illogic, political conservatism,
and delusions of omniscience.

Incidentally, someone wrote me noting the peak on the graph around
1985 and offering various theories as to the origin of the peak. I
should point out that the total variation over 30 years (from 0.6 ppm
to 0.7 ppm) yields a total variation of 0.001%. That's well within
statistical error limits, and is essentially flat. The most likely
reason for the slight increase in incidence is that PET scanners
became available for diagnosis in the early 1980's, which probably
produced a small increase in additional early diagnosis cases. This
peak tapered off as PET scans became routine.

There's also the issue of delayed reactions to RF exposure. This is
certainly a real possibility as some cancers appear perhaps 20 years
after exposure. However, with such a huge increase in cell phone use
between 1975 and 2006, there's not even the slightest indication in
the cancer incidence curves of a corresponding, but delayed, increase.
If anything, there's a slight decrease in brain cancer incidence,
which suggests that using a cell phone may help PREVENT brain cancer.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3141. change of address

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 17:10:16 UTC
From: Will <whenry21214@nospamyahoo.com>
Message-ID: <YxXPl.1601$wR5.946@nwrddc02.gnilink.net>
Source record: 15414

I guess this sin't the appropriate newsgroup but I'm going to take the chance of asking this anyway: I've moved and would like to know the correct URL to notify the FCC my status to update my liscense . Thanks in advance . I went to www.fcc.gov and couldn't seem to locate the necessary info from within so again,thanks in advance .

3142. Re: change of address

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 17:22:11 UTC
From: Rich Griffiths <richgrif@one.net>
Message-ID: <zvSdnYcUa-Be2o3XnZ2dnUVZ_qidnZ2d@posted.nuvoxcommunications>
Source record: 15415

On Sun, 17 May 2009 17:10:16 +0000, Will wrote:

> I guess this sin't the appropriate newsgroup but I'm going to take the
> chance of asking this anyway: I've moved and would like to know the
> correct URL to notify the FCC my status to update my liscense . Thanks
> in advance . I went to www.fcc.gov and couldn't seem to locate the
> necessary info from within so again,thanks in advance .

http://wireless.fcc.gov/uls/index.htm

73

...Rich

3143. Re: change of address

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 17:28:03 UTC
From: dplatt@radagast.org
Message-ID: <32u5e6-n0d.ln1@radagast.org>
Source record: 15416

In article <YxXPl.1601$wR5.946@nwrddc02.gnilink.net>,
Will <whenry21214@nospamyahoo.com> wrote:

>I guess this sin't the appropriate newsgroup but I'm going to take the
>chance of asking this anyway: I've moved and would like to know the correct
>URL to notify the FCC my status to update my liscense . Thanks in advance .
>I went to www.fcc.gov and couldn't seem to locate the necessary info from
>within so again,thanks in advance .

Go to http://www.fcc.gov/Forms/Form605/605.html, and read the overall
instructions.

If you want to do it by paper, click the link on that page to download
a copy of Form 605, and print it. On the form, select an application
purpose of MD (modification of license) in field 2, fill in your
callsign in field 5, fill in the rest of the applicable fields, sign
it, and mail it in.

Or, you can click the "Online Filing" link... this will bring you to a
page with an overview of the ULS (Universal Licensing System).

To use the online system, you need to be registered with the ULS,
which requires your FRN (registration number, associated with your
callsign) and a password.

http://wireless.fcc.gov/uls/index.htm?job=about_getting_started has
the details.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

3144. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 18:07:13 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gupaplce1@node1.news.atman.pl>
Source record: 15417

"Dave" <noone@nowhere.com> wrote
news:BjTPl.1568$wR5.360@nwrddc02.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:guoetm$n47$1@node1.news.atman.pl...
>
>> Is it something wrong if a visitors asks about something?
>
> if you ask then you would be expecting an answer and learn from that
> answer. you have ignored the responses you have received and kept going
> back to your own theories based on analogies that don't fit. if you
> really want to learn then read and accept the answers you have received.

The question was: "It seems that at long distances should appear the
phenomenon of frequency
doubling.
Is such?"
S*

Till today was only one Yes (Brian Howie). The rest were No.
Today Dr. Barry L. Ornitz wrote: "Nowhere in all of the respected
literature will you find frequency
doubling caused by the two ends of a dipole."

So now I know what I want. Do you agree with Dr.?
S*
>

3145. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 18:20:48 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gupbj2es1@node1.news.atman.pl>
Source record: 15418

"Richard Clark" <kb7qhc@comcast.net> wrote
news:47nu05d7gi71t1h6473ndkn2b9fdubt9bu@4ax.com...
> On Sat, 16 May 2009 19:43:27 -0400, "Dr. Barry L. Ornitz"
> <BLOrnitz48@charter.net> wrote:
>
>>I suspect your problem is one of language
>>and adolescent stubbornness combined.
>
> Hi Barry,
>
> I suspect you would be wrong on two counts, but that is of no
> importance.
>
>> frequency Active Auroral Research Program (HAARP*), and also by
>
>>* This group is also not the place to bring up conspiracy theories
>>involving this research program.
>
> Good resources that will add to our composite knowledge. I will
> browse them. As for HAARP, that "controversy" has faded considerable
> from its first incendiary introduction years ago. I wonder if Stephan
> will pick up on its implications.

Now I read only the description (original if possible) of experiments and
observations. Interpretations and explanation I do myself.
Now are many publications because they are obligatory (like homework). The
problem transverse vs longitudinal is now very simple. In nature no pure
transverse waves. Always are the two components. Even water waves are
largely longitudinal.
But we need the explanation for light polarization. So I am here.
S*

3146. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 18:21:54 UTC
From: Dave <noone@nowhere.com>
Message-ID: <6BYPl.1609$wR5.1124@nwrddc02.gnilink.net>
Source record: 15419

```
"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gupapl$ce$1@node1.news.atman.pl...
>
> "Dave" <noone@nowhere.com> wrote
> news:BjTPl.1568$wR5.360@nwrddc02.gnilink.net...
>>
>> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>> news:guoetm$n47$1@node1.news.atman.pl...
>>
>>> Is it something wrong if a visitors asks about something?
>>
>> if you ask then you would be expecting an answer and learn from that
>> answer. you have ignored the responses you have received and kept going
>> back to your own theories based on analogies that don't fit. if you
>> really want to learn then read and accept the answers you have received.
>
> The question was: "It seems that at long distances should appear the
> phenomenon of frequency
> doubling.
> Is such?"
> S*
>
> Till today was only one Yes (Brian Howie). The rest were No.
> Today Dr. Barry L. Ornitz wrote: "Nowhere in all of the respected
> literature will you find frequency
> doubling caused by the two ends of a dipole."
>
> So now I know what I want. Do you agree with Dr.?
> S*
>>
>

yes, i agree, no doubling by dipole and none related to distance.
```

3147. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 18:25:59 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gupbspfv1@node1.news.atman.pl>
Source record: 15420

"Tom Donaly" <dtdonaly@sbcglobal.net> wrote
news:V6VPl.19164$8_3.3264@flpi147.ffdc.sbc.com...
> Szczepan Biaďż˝ek wrote:
>
>>
>> Is it something wrong if a visitors asks about something?
>> S*
>>> 73,
>>> Tom Donaly, KA6RUH
>>
>
> It's wrong if the only answer you'll accept is the one you decided on
> beforehand.

What should I do if I was sure that the phenomenon exist. I only did not
know that it is "Luxembourg effect".
S*

3148. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 18:36:55 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gupch8kg1@node1.news.atman.pl>
Source record: 15421

"Richard Clark" <kb7qhc@comcast.net> wrote
news:aff015hcpl9mis8n3aibaq8jbs4dpv0t09@4ax.com...
> On Sun, 17 May 2009 11:56:42 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>> So why do you post here?
>>
>>Here are experts.
>
> Ah! and by posting here, you become first among equals.

I hope I will be able to do as Bill Miller advice me:
"> So I have the question to both of you. I have read about the acoustic
> analogy. The antennas (halve wave) and loudspeakers have the same
> directional pattern. Does it means that the electric waves are like the
> acoustic?
> S*
>>
In that they are both waves-- yes.

Acoustic waves are longitudinal. Electric (and magnetic) waves are (almost
always) transverse.

You may want to ask your question again as a separate topic. Maybe you will
be fortunate to launch a thread as long as that from the simple (earlier)
question about how an EM wave propagates.

THAT one went on fo quite a while and almost initiated a few fist fights!

Bill " (from sci.physics.electromag).
S*

>
> Stephan, you are simply trolling and that is why you are here.

You too serious. Science is very funny.
S*

3149. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 18:37:07 UTC
From: KD7HB <co_farmer@yahoo.com>
Message-ID: <215baaf3-3b9c-417f-ae85-72dd5d56b850@a5g2000pre.googlegroups.com>
Source record: 15422

On May 16, 9:25 pm, MacaualyFlower <macaulay.flo...@hotmail.com>
wrote:
> I know that there is some concern that cell phones may cause cancer.
> But is there any possible correlation between the radio waves we use
> to communicate, either by commercial radio or other sources and
> cancer? Or what about the radio waves that are being emitted from our
> personal electronic appliances? I have heard that there is some
> concern that if you live near a power line that you may be at risk for
> cancer. What is the state of research into this subject?
>
> Thanks

This has nothing to do with radio waves (electromagnetic radiation),
but there is ALWAYS a correlation between any thing. Correlation goes
from -1 to +1, passing through zero. So, yes, there is a correlation,
but it may be negative, it may be zero, or it may be positive, but it
is always something.

Paul, KD7HB

3150. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 19:10:28 UTC
From: Dave <noone@nowhere.com>
Message-ID: <EiZPl.1612$wR5.513@nwrddc02.gnilink.net>
Source record: 15424

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gupbj2es1@node1.news.atman.pl...
>
> "Richard Clark" <kb7qhc@comcast.net> wrote
> news:47nu05d7gi71t1h6473ndkn2b9fdubt9bu@4ax.com...
>> On Sat, 16 May 2009 19:43:27 -0400, "Dr. Barry L. Ornitz"
>> <BLOrnitz48@charter.net> wrote:
>>
>>>I suspect your problem is one of language
>>>and adolescent stubbornness combined.
>>
>> Hi Barry,
>>
>> I suspect you would be wrong on two counts, but that is of no
>> importance.
>>
>>> frequency Active Auroral Research Program (HAARP*), and also by
>>
>>>* This group is also not the place to bring up conspiracy theories
>>>involving this research program.
>>
>> Good resources that will add to our composite knowledge. I will
>> browse them. As for HAARP, that "controversy" has faded considerable
>> from its first incendiary introduction years ago. I wonder if Stephan
>> will pick up on its implications.
>
> Now I read only the description (original if possible) of experiments and
> observations. Interpretations and explanation I do myself.
> Now are many publications because they are obligatory (like homework). The
> problem transverse vs longitudinal is now very simple. In nature no pure
> transverse waves. Always are the two components. Even water waves are
> largely longitudinal.
> But we need the explanation for light polarization. So I am here.
> S*

EM waves are transverse. The Poynting vector is the cross product of the
electric and magnetic field, by definition that results in a direction of
propagation that is perpendicular to the two fields.

3151. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 19:44:47 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5np015h8l4h5jvdmhuagfc5nrb9db3vrad@4ax.com>
Source record: 15425

On Sun, 17 May 2009 20:36:55 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>> Stephan, you are simply trolling and that is why you are here.
>
>You too serious. Science is very funny.

Well, at least you didn't dispute me. And yes, I can laugh. Haven't
you noticed yet? You are a funny troll, and we all can tell you want
to keep it that way. Unfortunately, we have funnier trolls. :-(

73's
Richard Clark, KB7QHC

3152. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 22:35:26 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <Ma0QI.4232$fD.2263@flpi145.ffdc.sbc.com>
Source record: 15427

Szczepan Białż˝ek wrote:
> So now I know what I want. Do you agree with Dr.?

The superposition of coherent waves is a linear function.
Therefore, there is no way for the superposition process
itself to produce harmonics.

For frequency doubling to exist, there must be a nonlinear
process. The question is: Does any nonlinear process exist
between the linear transmitting antenna and the linear
receiving antenna?

I once heard a pile of tin cans talking to me. Turns out
some rusted junction in the pile of cans was detecting
the FM from the local radio station. That was a non-linear
process. Lucille Ball is reported to have picked up Japanese
CW signals through the fillings in her teeth, again a non-
linear process.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3153. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-17 22:48:58 UTC
From: Harry H <harryharms@hotmail.com>
Message-ID: <uv0Ql.11812$y61.4035@news-server.bigpond.net.au>
Source record: 15428

Over this way and a little further north Kaka neans S**T or nothing of any worth!!

HH

3154. Re: change of address

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 01:14:58 UTC
From: "David G. Nagel" <nagel.david@sbcglobal.net>
Message-ID: <kw2Ql.4234$fD.2559@flpi145.ffdc.sbc.com>
Source record: 15429

Will wrote:
> I guess this sin't the appropriate newsgroup but I'm going to take the
> chance of asking this anyway: I've moved and would like to know the correct
> URL to notify the FCC my status to update my liscense . Thanks in advance .
> I went to www.fcc.gov and couldn't seem to locate the necessary info from
> within so again,thanks in advance .
>
>
Will;

I you are a member of the ARRL you can have them process your change of
address.

Dave WD9BDZ

3155. Sanyo Hdtv

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 01:29:51 UTC
From: Asleson@lorina.com
Message-ID: <4a108ff9$0$25043$586e9bf6@usenetnow.com>
Source record: 15426

VIZIO 42" LCD 1080P (FLAT SCREEN)VS420LF1A
Price:$899.99
Image: http://bestdealfinder.us/image.php?id=B001RSJ2IA
Best deal: http://bestdealfinder.us/index.php?id=B001RSJ2IA

Philips 42TA648BX/37 42" 1080p LCD HDTV
Price:$1,998.00
Image: http://bestdealfinder.us/image.php?id=B001C9FDUU
Best deal: http://bestdealfinder.us/index.php?id=B001C9FDUU

Sanyo DP26648 26" LCD HDTV w/ Digital Tuner
Price:$355.95
Image: http://bestdealfinder.us/image.php?id=B001JT16ZO
Best deal: http://bestdealfinder.us/index.php?id=B001JT16ZO

Sanyo 15" Diagonal LCD HDTV with Digital Tuner, DP15647
Price:$241.23
Image: http://bestdealfinder.us/image.php?id=B001ALB1M4
Best deal: http://bestdealfinder.us/index.php?id=B001ALB1M4

VideoSecu black tilting wall mount Fits SANYO plasma flat panel TV LCD monitor SANYO DP37647 DP42848 DP42647 PDP42H2W DP46848 DO50747 DP52848 HDTV 1SF
Price:$29.99
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Sanyo DP26647 26-inch Wide-Screen Flat Panel LCD HDTV with Digital Tuner
Price:$308.95
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Sanyo DP26647A 26 Wide-Screen LCD HDTV with Digital Tuner"
Price:$599.99
Image: http://bestdealfinder.us/image.php?id=B001G66U9W
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Sanyo DP26746 - 26" LCD TV - widescreen - 720p - HDTV
Price:$422.22
Image: http://bestdealfinder.us/image.php?id=B000GLV1SI
Best deal: http://bestdealfinder.us/index.php?id=B000GLV1SI

LG 47LG20 47" 1080p LCD HDTV - Black
Price:$1,099.00
Image: http://bestdealfinder.us/image.php?id=B001RZ46P2
Best deal: http://bestdealfinder.us/index.php?id=B001RZ46P2

Sanyo DP26746A Refurbished 26" LCD HDTV
Price:$659.99
Image: http://bestdealfinder.us/image.php?id=B0014KNZTS
Best deal: http://bestdealfinder.us/index.php?id=B0014KNZTS

VIZIO 42" LCD 1080P (FLAT SCREEN)VS420LF1A
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Image: http://bestdealfinder.us/image.php?id=B001RSJ2IA
Best deal: http://bestdealfinder.us/index.php?id=B001RSJ2IA

Philips 42TA648BX/37 42" 1080p LCD HDTV
Price:$1,998.00
Image: http://bestdealfinder.us/image.php?id=B001C9FDUU
Best deal: http://bestdealfinder.us/index.php?id=B001C9FDUU

Sanyo DP26648 26" LCD HDTV w/ Digital Tuner
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Sanyo DP26746A Refurbished 26" LCD HDTV
Price:$659.99
Image: http://bestdealfinder.us/image.php?id=B0014KNZTS

Best deal: http://bestdealfinder.us/index.php?id=B0014KNZTS

3156. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 02:36:07 UTC
From: Clifford Heath <no@spam.please.net>
Message-ID: <4a10c997$0$3253$afc38c87@news.optusnet.com.au>
Source record: 15430

Jeff Liebermann wrote:
> There's also the issue of delayed reactions to RF exposure. This is
> certainly a real possibility as some cancers appear perhaps 20 years
> after exposure.

The delay for skin cancer risk after sun exposure (which is also EM rad)
is more like 40 years.

3157. Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 03:41:40 UTC
From: Al Lorona <al_lorona@agilent.com>
Message-ID: <NN4QI.30039$Ws1.25910@nlpi064.nbdc.sbc.com>
Source record: 15431

I have always heard that "13 feet, 6 inches" is a standard for the maximum height of an antenna mounted on a vehicle.

However, I cannot find a credible source on the web verifying this "fact". NHTSA, DOT, don't seem to have such an antenna regulation on their respective web sites. I am not the most skillful user of Google, but my searches have sure not turned up a reference to this magic number on any authoritative site. Perhaps there is no national standard, only 50 separate state standards, and the state with the lowest height limit would then become the 'national standard'??

3158. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 04:08:04 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <5d2b2256-3c5e-4bcb-a493-cdf4b74c3273@j12g2000vbl.googlegroups.com>
Source record: 15432

On May 17, 11:41 pm, "Al Lorona" <al_lor...@agilent.com> wrote:
> I have always heard that "13 feet, 6 inches" is a standard for the maximum
> height of an antenna mounted on a vehicle.
>
> However, I cannot find a credible source on the web verifying this "fact".
> NHTSA, DOT, don't seem to have such an antenna regulation on their
> respective web sites. I am not the most skillful user of Google, but my
> searches have sure not turned up a reference to this magic number on any
> authoritative site. Perhaps there is no national standard, only 50 separate
> state standards, and the state with the lowest height limit would then
> become the 'national standard'??

Maybe for interstates but I have seen some overpasses that were lower
than that.

Jimmie

3159. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 04:09:11 UTC
From: jimlux@earthlink.net
Message-ID: <fe2ab124-cd91-42ca-8cc9-8cd88f244da4@k19g2000prh.googlegroups.com>
Source record: 15433

On May 17, 8:41 pm, "Al Lorona" <al_lor...@agilent.com> wrote:
> I have always heard that "13 feet, 6 inches" is a standard for the maximum
> height of an antenna mounted on a vehicle.
>
> However, I cannot find a credible source on the web verifying this "fact".
> NHTSA, DOT, don't seem to have such an antenna regulation on their
> respective web sites. I am not the most skillful user of Google, but my
> searches have sure not turned up a reference to this magic number on any
> authoritative site. Perhaps there is no national standard, only 50 separate
> state standards, and the state with the lowest height limit would then
> become the 'national standard'??

It's not a rule about antennas per se, it's maximum height of
vehicle. In California, it's 14 ft (with some special exceptions).
CVC 35250. No vehicle or load shall exceed a height of 14 feet
measured from the surface upon which the vehicle stands, except that a
double-deck bus may not exceed a height of 14 feet, 3 inches. Any
vehicle or load which exceeds a height of 13 feet, 6 inches, shall
only be operated on those highways where deemed to be safe by the
owner of the vehicle or the entity operating the bus.

There's also a federal rule for interstate highways that, in effect,
says that if your vehicle is less than 14 ft high and 8 ft wide, it
will fit on all interstate highways (if there's a low bridge, you'll
have the get off and go around path marked.

CVC 35100. (a) The total outside width of any vehicle or its load
shall not exceed 102 inches, except as otherwise provided in this
chapter.

(b) Notwithstanding any other provision of law, safety devices which
the Secretary of Transportation determines to be necessary for the
safe and efficient operation of motor vehicles shall not be included
in the calculation of width as specified in subdivision (a).

(c) Any city or county may, by ordinance, prohibit a combination of
vehicles of a total width in excess of 96 inches upon highways under
its jurisdiction. The ordinance shall not be effective until
appropriate signs are erected indicating the streets affected

3160. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 04:33:13 UTC
From: dplatt@radagast.org
Message-ID: <9157e6-ffg.ln1@radagast.org>
Source record: 15434

In article <NN4Ql.30039$Ws1.25910@nlpi064.nbdc.sbc.com>,
Al Lorona <al_lorona@agilent.com> wrote:

>I have always heard that "13 feet, 6 inches" is a standard for the maximum
>height of an antenna mounted on a vehicle.
>
>However, I cannot find a credible source on the web verifying this "fact".
>NHTSA, DOT, don't seem to have such an antenna regulation on their
>respective web sites. I am not the most skillful user of Google, but my
>searches have sure not turned up a reference to this magic number on any
>authoritative site. Perhaps there is no national standard, only 50 separate
>state standards, and the state with the lowest height limit would then
>become the 'national standard'??

I don't think there's a maximum antenna height, per se. However,
there are some standards for the minimum heights of bridges and other
overpasses.

Take a look at

http://wwwcf.fhwa.dot.gov/legsregs/directives/fapg/0625sup.htm

Specifically, section 7A specifies that sections of the Interstate in
rural areas must have a clear height of not less than 16 feet, while
some Interstate routes in urban areas can be as low as 14 feet.

I believe that the "13-and-a-fraction foot" height is intended to
ensure that the vehicle can pass along all conforming Interstate
routes without hitting anything... it's a comfortable margin below the
14-foot urban minimum. I've heard "13 feet 9 inches" as well as the
"13 feet 6 inches" figure you mention.

There are some exceptions: Interstate overpasses below the specified
minima. See

http://www.aitaonline.com/Info/Low Clearances.html

for lists.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

3161. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 06:34:52 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <hgv115hr0nf82voo4bl6t31b1cih89mpfa@4ax.com>
Source record: 15435

On Mon, 18 May 2009 12:36:07 +1000, Clifford Heath
<no@spam.please.net> wrote:

>Jeff Liebermann wrote:
>> There's also the issue of delayed reactions to RF exposure. This is
>> certainly a real possibility as some cancers appear perhaps 20 years
>> after exposure.
>
>The delay for skin cancer risk after sun exposure (which is also EM rad)
>is more like 40 years.

Yep. We may be dead before symptoms appear.

<http://www.healthnewsflash.com/conditions/skin_cancer.php>
In addition, skin cancer is related to lifetime exposure to
UV radiation. Most skin cancers appear after age 50, but the
sun's damaging effects begin at an early age. Therefore,
protection should start in childhood to prevent skin cancer
later in life.

It's possible that brain cancer induced by RF exposure might work the
same way. At this time, there's no evidence of such a mechanism.
Widespread handheld cell phone use started in about 1990. If it
really takes 40 years to see problems, we'll just have to wait until
2030.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3162. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 07:04:44 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guqob4$6r6$1@node1.news.atman.pl>
Source record: 15436

"Richard Clark" <kb7qhc@comcast.net> wrote
news:5np015h8l4h5jvdmhuagfc5nrb9db3vrad@4ax.com...
> On Sun, 17 May 2009 20:36:55 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>> Stephan, you are simply trolling and that is why you are here.
>>
>>You too serious. Science is very funny.
>
> Well, at least you didn't dispute me. And yes, I can laugh. Haven't
> you noticed yet? You are a funny troll, and we all can tell you want
> to keep it that way. Unfortunately, we have funnier trolls. :-(

Here are examples that science is fuuny.
1. Browian movements. The pet theory says that not simmetrical kicking from H2O particles are the cause. But everybody should know that ALL SUSPENSION ARE CHARGED. No charge no suspension. The electrostatic is the cause.

2. Cavitation demages. The pet theory says that the colapsing of bubbles is the cause. But demages are in the area where the bubbles appear. The demages are electrochemical.

3. Photons. The pet theory says that light is particles. Everybody should know what the coherence is. Light is emitted in packets (as largely longitudinal waves)

4. The magnetic whirl ..... and many others pet theories.

Is not this very funny?
S*

3163. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 07:22:26 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guqpcc$6us$1@node1.news.atman.pl>
Source record: 15437

Uďż˝ytkownik "Cecil Moore" <nospam@w5dxp.com> napisaďż˝ w wiadomoďż˝ci
news:Ma0Ql.4232$fD.2263@flpi145.ffdc.sbc.com...
> Szczepan Biaďż˝ek wrote:
>> So now I know what I want. Do you agree with Dr.?
>
> The superposition of coherent waves is a linear function.
> Therefore, there is no way for the superposition process
> itself to produce harmonics.

But the dipole has the two independent sources on the two ends. The waves
from them are "coupled". We can say "polarised" but it not means that radio
waves are tranversal.
>
> For frequency doubling to exist, there must be a nonlinear
> process. The question is: Does any nonlinear process exist
> between the linear transmitting antenna and the linear
> receiving antenna?

Forget nonlinear process. In emmiting antenna the one current cycle produce
the two spherical waves from the ends (of course not in phase). So equipment
is "polarised" not the waves.
It is most interesting that at very short distances the polarisation works
and the frequency is not twice more.

> I once heard a pile of tin cans talking to me. Turns out
> some rusted junction in the pile of cans was detecting
> the FM from the local radio station. That was a non-linear
> process. Lucille Ball is reported to have picked up Japanese
> CW signals through the fillings in her teeth, again a non-
> linear process.

All are like coherer. The first detector of the radio waves.
S*

3164. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 07:28:32 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guqpnn$705$1@node1.news.atman.pl>
Source record: 15438

```
"Dave" <noone@nowhere.com> wrote
news:EiZPl.1612$wR5.513@nwrddc02.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gupbj2$es$1@node1.news.atman.pl...
>>
>> "Richard Clark" <kb7qhc@comcast.net> wrote
>> news:47nu05d7gi71t1h6473ndkn2b9fdubt9bu@4ax.com...
>>> On Sat, 16 May 2009 19:43:27 -0400, "Dr. Barry L. Ornitz"
>>> <BLOrnitz48@charter.net> wrote:
>>>
>>>>I suspect your problem is one of language
>>>>and adolescent stubbornness combined.
>>>
>>> Hi Barry,
>>>
>>> I suspect you would be wrong on two counts, but that is of no
>>> importance.
>>>
>>>> frequency Active Auroral Research Program (HAARP*), and also by
>>>
>>>>* This group is also not the place to bring up conspiracy theories
>>>>involving this research program.
>>>
>>> Good resources that will add to our composite knowledge. I will
>>> browse them. As for HAARP, that "controversy" has faded considerable
>>> from its first incendiary introduction years ago. I wonder if Stephan
>>> will pick up on its implications.
>>
>> Now I read only the description (original if possible) of experiments and
>> observations. Interpretations and explanation I do myself.
>> Now are many publications because they are obligatory (like homework).
>> The problem transverse vs longitudinal is now very simple. In nature no
>> pure transverse waves. Always are the two components. Even water waves
>> are largely longitudinal.
>> But we need the explanation for light polarization. So I am here.
>> S*
>
> EM waves are transverse. The Poynting vector is the cross product of the
> electric and magnetic field, by definition that results in a direction of
> propagation that is perpendicular to the two fields.

The Pointing vector and the rest are from the fluid mechnics. There are the
whirls. Whirls had also sense in times when electricity was as
```

incompressible massles fluid. The moving electrons cause in medium stress
and strains.
The magnetic whirl around a wire is a assmption. The clasical EM is valid
only for such assumption.
S*

3165. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 11:19:08 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <LubQI.29455$yr3.12319@nlpi068.nbdc.sbc.com>
Source record: 15439

Al Lorona wrote:
> ... and the state with the lowest height limit would then
> become the 'national standard'??

The maximum allowable height rule for the CA
mobile shootouts that I attended was 12.5 feet
from the ground. Don't know if that's the CA
limit or not.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3166. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 11:24:56 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <EwbQl.7248$Lr6.4793@flpi143.ffdc.sbc.com>
Source record: 15440

Jeff Liebermann wrote:
> It's possible that brain cancer induced by RF exposure might work the
> same way.

The IEEE Spectrum magazine reported the following:

http://www.medicalnewstoday.com/articles/40764.php
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3167. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 11:36:58 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <tLbQl.29456$yr3.22781@nlpi068.nbdc.sbc.com>
Source record: 15441

Szczepan Białˇek wrote:
> But the dipole has the two independent sources on the two ends. The
> waves from them are "coupled". We can say "polarised" but it not means
> that radio waves are tranversal.

The "sources" of radiation on the two ends of a dipole
are not independent. There are coherent with the single
source. There is no way to superpose two coherent waves
to get a doubling of frequency. According to the math
model, all one gets is single-frequency interference.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3168. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 11:57:51 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <23cQl.29459$yr3.15298@nlpi068.nbdc.sbc.com>
Source record: 15442

Szczepan Białż˝ek wrote:
> The magnetic whirl around a wire is a assmption. The clasical EM is
> valid only for such assumption.

EM waves in free space, "in" a wire, or in a waveguide,
propagate at the speed of light in the medium. Therefore,
the EM energy is photonic since electrons cannot move
that fast. Even the impulse current in a DC circuit
is photonic. The name "standing wave" is an oxymoron.
If its standing, it's not a wave, by definition.

An analogy might be water flowing through a pipe. One
can send information through the pipe much faster than
the water is flowing.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3169. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 14:36:26 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <gurrpi$v7c$1@news.netins.net>
Source record: 15443

13'6" sounds close. If I needed to know I'd check the maximum height of a semi-trailer on the hiways and it's probably a standard for a least 48 states.

"Al Lorona" <al_lorona@agilent.com> wrote in message news:NN4Ql.30039$Ws1.25910@nlpi064.nbdc.sbc.com...
>I have always heard that "13 feet, 6 inches" is a standard for the maximum
>height of an antenna mounted on a vehicle.
>
> However, I cannot find a credible source on the web verifying this "fact".
> NHTSA, DOT, don't seem to have such an antenna regulation on their
> respective web sites. I am not the most skillful user of Google, but my
> searches have sure not turned up a reference to this magic number on any
> authoritative site. Perhaps there is no national standard, only 50
> separate state standards, and the state with the lowest height limit would
> then become the 'national standard'??
>
>
>

3170. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 14:41:52 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <hss215hbvvp6efp0nb7rhtkutg545foe9q@4ax.com>
Source record: 15444

On Mon, 18 May 2009 09:04:44 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>Here are examples that science is fuuny.

Is that pronounced EYEgor?

73's
Richard Clark, KB7QHC

3171. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 15:22:27 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gurufjdgh1@news.jpl.nasa.gov>
Source record: 15446

Cecil Moore wrote:
> Al Lorona wrote:
>> ... and the state with the lowest height limit would then
>> become the 'national standard'??
>
> The maximum allowable height rule for the CA
> mobile shootouts that I attended was 12.5 feet
> from the ground. Don't know if that's the CA
> limit or not.

CA limit is 14 ft (unless you have a "moving permit")
Pilot cars can have a measuring device that's taller, as long as they
don't go slower than 20mi/hr below the speed limit. (presumably this is
in connection with the moving permit for the oversize load that's following.

Your friendly local CHP office will work out the route for you..

3172. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 15:27:35 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a117eac$0$92356$8046368a@newsreader.iphouse.net>
Source record: 15445

Richard Clark wrote:
> On Mon, 18 May 2009 09:04:44 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>> Here are examples that science is fuuny.
>
> Is that pronounced EYEgor?
>
> 73's
> Richard Clark, KB7QHC

Unfortunately he probably won't get it.

tom
K0TAR

3173. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 16:38:07 UTC
From: JB <nospam@goofball.net>
Message-ID: <P9gQl.1801$wR5.1357@nwrddc02.gnilink.net>
Source record: 15447

Fascist dogma.

3174. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 16:38:21 UTC
From: Panzer240 <panzer240@hotmail.com>
Message-ID: <Xns9C0F8ABDDF0E6fw190a8@199.185.223.74>
Source record: 15448

MacaualyFlower <macaulay.flower@hotmail.com> wrote in news:eac83182-542b-4a56-9ad4-630cf61104dd@w35g2000prg.googlegroups.com:

> I know that there is some concern that cell phones may cause cancer.
> But is there any possible correlation between the radio waves we use
> to communicate, either by commercial radio or other sources and
> cancer? Or what about the radio waves that are being emitted from our
> personal electronic appliances? I have heard that there is some
> concern that if you live near a power line that you may be at risk for
> cancer. What is the state of research into this subject?
>
> Thanks

Troll-o-meter

0------------------------->100

Pegged!!!!

--
Panzer

3175. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 17:32:49 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <e763159n7k37pe45a3c37ai6r5qaqqtld7@4ax.com>
Source record: 15449

On Mon, 18 May 2009 06:24:56 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Jeff Liebermann wrote:
>> It's possible that brain cancer induced by RF exposure might work the
>> same way.
>
>The IEEE Spectrum magazine reported the following:
>http://www.medicalnewstoday.com/articles/40764.php

Yep. Using the NCI statistics I previously excavated, the incidence
of new brain and CNS cases is about 6 cases per 100,000 population per
year. The current population of Sweden is 9.2 million. Assuming the
same cancer rate in Sweden as the US, that's 552 cases of brain cancer
per year. Where did they find 905 brain cancer victims in a country
that only generates 552 cases per year? Perhaps the numbers seem a
bit odd?

I haven't read the original report, but my guess(tm) the 240% higher
risk is due to statistical anomalies resulting from using small
samples culled from extremely small incidence rates. All it takes is
one or two more events (cases), and the results look like 100% or 200%
increases.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3176. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 18:09:13 UTC
From: Al Lorona <al_lorona@agilent.com>
Message-ID: <3vhQl.10664$im1.2764@nlpi061.nbdc.sbc.com>
Source record: 15450

"Dave Platt" <dplatt@radagast.org> wrote in message
news:9157e6-ffg.ln1@radagast.org...
> In article <NN4Ql.30039$Ws1.25910@nlpi064.nbdc.sbc.com>,
>
> Take a look at
>
> http://wwwcf.fhwa.dot.gov/legsregs/directives/fapg/0625sup.htm
>

Thanks, Dave, for the exact reference sites. They were helpful. And thanks to all the others for their replies.

I think it's clear that finding one number-- one right answer-- is difficult. I just called the California Highway Patrol office in Altadena and found that there really is no right answer. The guy at the front desk said that the "consensus" in the office was 14 feet. And of course he was speaking only for California. He said that there's no separate regulation for antennas, only the number for total vehicle height. There seems to be no urgency on the part of the CHP to refer to a vehicle code to enforce the height.

As you saw, the replies to my post ranged from 12.5 to 14 feet. It surprises me that the standard deviation implied by this spread is that large.

All in all, this has been very surprising.

Thinking about it some more, perhaps the limiting factor becomes not bridges and overpasses, but fast food drive-thrus and gas station roofs.

3177. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 18:21:48 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <0HhQl.17007$%54.11347@nlpi070.nbdc.sbc.com>
Source record: 15451

Jeff Liebermann wrote:
> Where did they find 905 brain cancer victims in a country
> that only generates 552 cases per year?

That's not the question. The question is: Where on
earth did you get the idea that benign tumors and
cancer are the same thing? Hint: They are not.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3178. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 18:28:53 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GNhQl.15868$jZ1.6866@flpi144.ffdc.sbc.com>
Source record: 15452

Al Lorona wrote:
> I just called the California Highway Patrol office in Altadena
> and found that there really is no right answer.

For one of the CA 75m shootouts that I prepared for,
I had a white PVC pipe extending up about 9 feet from
the tool box on my pickup. I was stopped by a Maricopa
County deputy sheriff who tried to give me a ticket
for violating some height limit.

I demanded that he put the law section number that I
was violating, on my ticket. After spending about an
hour on his radio, he couldn't do it and let me go.

To be truthful, I had outrun this guy on my Z1B Kawasaki
motorcycle and he was itching to give me a ticket. :-)
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3179. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 18:30:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <u1m8e6-f1n.ln1@mail.specsol.com>
Source record: 15453

Al Lorona <al_lorona@agilent.com> wrote:
>
> "Dave Platt" <dplatt@radagast.org> wrote in message
> news:9157e6-ffg.ln1@radagast.org...
>> In article <NN4Ql.30039$Ws1.25910@nlpi064.nbdc.sbc.com>,
>>
>> Take a look at
>>
>> http://wwwcf.fhwa.dot.gov/legsregs/directives/fapg/0625sup.htm
>>
>
> Thanks, Dave, for the exact reference sites. They were helpful. And thanks
> to all the others for their replies.
>
> I think it's clear that finding one number-- one right answer-- is
> difficult. I just called the California Highway Patrol office in Altadena
> and found that there really is no right answer. The guy at the front desk
> said that the "consensus" in the office was 14 feet. And of course he was
> speaking only for California. He said that there's no separate regulation
> for antennas, only the number for total vehicle height. There seems to be no
> urgency on the part of the CHP to refer to a vehicle code to enforce the
> height.
>
> As you saw, the replies to my post ranged from 12.5 to 14 feet. It surprises
> me that the standard deviation implied by this spread is that large.
>
> All in all, this has been very surprising.
>
> Thinking about it some more, perhaps the limiting factor becomes not bridges
> and overpasses, but fast food drive-thrus and gas station roofs.
>

And parking structures.

Don't even think about going to Vegas with an antenna much over 8 feet
tall unless you plan on parking in the back 40 with the RV's.

--
Jim Pennino

Remove .spam.sux to reply.

3180. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 19:21:11 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <e2d3159vgn4tci00ve5l6nmti5nvel2nd1@4ax.com>
Source record: 15454

On Mon, 18 May 2009 11:09:13 -0700, "Al Lorona"
<al_lorona@agilent.com> wrote:

>There seems to be no
>urgency on the part of the CHP to refer to a vehicle code to enforce the
>height.

Depending on structural integrity, that would be self-enforcing,
wouldn't it?

From http://en.wikipedia.org/wiki/Interstate_Highway_standards

Vertical clearance. Minimum vertical clearance under overhead
structures (including over the paved shoulders) of 16 ft (4.9 m) in
rural areas and 14 ft (4.3 m) in urban areas, with allowance for extra
layers of pavement. Through urban areas at least one routing should
have 16 ft (4.9 m) clearances. Sign supports and pedestrian overpasses
must be at least 17 ft (5.1 m) above the road, except on urban routes
with lesser clearance, where they should be at least 1 ft (0.3 m)
higher than other objects. Vertical clearance on through truss bridges
is to be at least 17 ft (5.1 m).

73's
Richard Clark, KB7QHC

3181. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 19:42:20 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a11ba11$0$18863$8046368a@newsreader.iphouse.net>
Source record: 15455

Al Lorona wrote:

> Thanks, Dave, for the exact reference sites. They were helpful. And thanks
> to all the others for their replies.
>
> I think it's clear that finding one number-- one right answer-- is
> difficult. I just called the California Highway Patrol office in Altadena
> and found that there really is no right answer. The guy at the front desk
> said that the "consensus" in the office was 14 feet. And of course he was
> speaking only for California. He said that there's no separate regulation
> for antennas, only the number for total vehicle height. There seems to be no
> urgency on the part of the CHP to refer to a vehicle code to enforce the
> height.
>
> As you saw, the replies to my post ranged from 12.5 to 14 feet. It surprises
> me that the standard deviation implied by this spread is that large.
>
> All in all, this has been very surprising.
>
> Thinking about it some more, perhaps the limiting factor becomes not bridges
> and overpasses, but fast food drive-thrus and gas station roofs.
>

The very clear thing, at least here in Minnesota, is if you break it,
you bought it. A rig towing a large piece of equipment was a bit too
tall and struck an overpass on one of the I94 bypasses. Their insurance
company bought a nice new 4 lane overpass that traversed the 6 lane
bypass. Not cheap.

tom
K0TAR

3182. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 19:55:56 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <7ud3151bkeb1b56sl42k556gdokp8l3mk2@4ax.com>
Source record: 15456

On Mon, 18 May 2009 13:21:48 -0500, Cecil Moore <nospam@w5dxp.com>
wrote:

>Jeff Liebermann wrote:
>> Where did they find 905 brain cancer victims in a country
>> that only generates 552 cases per year?
>
>That's not the question. The question is: Where on
>earth did you get the idea that benign tumors and
>cancer are the same thing? Hint: They are not.

Oops. You're right. The original question was about RF and cancer. I
didn't notice that the Swedish study apparently (not sure without
reading the study) includes both malignant and benign brain tumors. It
may also not include CNS (central nervous system) tumors, which the
ACI graph I presented does include.

I couldn't find the article in question due to the vague references,
but did manage to find another article on the same topic by the same
author:
"Symptoms Experienced in Connection with the Use of Digital
and Analog Mobile Phones for Poeple Using Both Transmitter
Systems: A Swedish-Norwegian Epidemiological Study."
<http://www.springerlink.com/content/k2k224/?p=414fd7433b85492a967c4624feddf2ca&pi=0>
It appears to be part of the book "Wireless Phones and Health II". I
also found a series of other articles dealing with RF exposure and
medicine by Kjell Mild, but no source for the original article under
"International Archives of Occupational and Environmental Health".

Incidentally, one of my neighbors recently had a brain tumor removed.
She didn't use a cell phone prior to the diagnosis, but bought one so
she could remain in contact during the treatment and recovery.

--
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Skype: JeffLiebermann AE6KS 831-336-2558

3183. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 20:55:10 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gusi0qkli1@news.service.uci.edu>
Source record: 15459

kaka wrote:
> WHAT IS ISLAM?

Something that with time becomes increasingly regressive and makes a
nuisance of itself?

3184. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 20:55:55 UTC
From: "Helmut Wabnig"
Message-ID: <nki315lo75i4b7sf5a3rmrtivj6mb6drpk@4ax.com>
Source record: 15458

On Mon, 18 May 2009 16:38:21 GMT, Panzer240 <panzer240@hotmail.com>
wrote:

>MacaualyFlower <macaulay.flower@hotmail.com> wrote in news:eac83182-542b-
>4a56-9ad4-630cf61104dd@w35g2000prg.googlegroups.com:
>
>> I know that there is some concern that cell phones may cause cancer.
>> But is there any possible correlation between the radio waves we use
>> to communicate, either by commercial radio or other sources and
>> cancer? Or what about the radio waves that are being emitted from our
>> personal electronic appliances? I have heard that there is some
>> concern that if you live near a power line that you may be at risk for
>> cancer. What is the state of research into this subject?
>>
>> Thanks
>
>Troll-o-meter
>
>0-------------------------->100
>
>Pegged!!!!

Caution!

As a radio amateur I must be lucky if my neighbours don't
claim headaches and nervous irritation the day after
I put up my new antenna.
Better keep oneself in good shape regarding the arguments.

3185. re:max legal antenna height

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 20:56:43 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <gusi2c$8t3$1@news.netins.net>
Source record: 15457

I checked on google and for state roads it varies from 13'6" to 14'6". I think it said on federal roads (Interstates) is 14'6"

3186. Re: change of address

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 22:33:37 UTC
From: Will <whenry21214@nospamyahoo.com>
Message-ID: <5nlQl.2133$5F2.601@nwrddc01.gnilink.net>
Source record: 15460

"David G. Nagel" <nagel.david@sbcglobal.net> wrote in message
news:kw2Ql.4234$fD.2559@flpi145.ffdc.sbc.com...
> Will wrote:
>> I guess this sin't the appropriate newsgroup but I'm going to take the
>> chance of asking this anyway: I've moved and would like to know the
>> correct URL to notify the FCC my status to update my liscense . Thanks in
>> advance .
>> I went to www.fcc.gov and couldn't seem to locate the necessary info from
>> within so again,thanks in advance .
> Will;
>
> I you are a member of the ARRL you can have them process your change of
> address.
>
> Dave WD9BDZ

I'm not a member of the ARRL yet so I believe I'll take the online method at
the FCC's website. Thanks everyone here for the help and hope to catch you
on the air some time .
BTW the call here is Kilo Alpha 3 Victor India Delta . Take care and an
early Happy Memorial Day also !

3187. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-18 23:19:56 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gusqganpc1@news.service.uci.edu>
Source record: 15461

Cecil Moore wrote:

> EM radiation from amateur radio antennas is photonic.

EM radiation from anything is both particles and waves.

> For instance, standing waves
> consist of photons that cannot stand still.

As opposed to consisting of photons that _can_ stand still? :-)

Interference is an example of the wavelike nature of light.

ac6xg

3188. Re: Frequency doubling

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 01:03:04 UTC
From: Dave <noone@nowhere.com>
Message-ID: <cznQl.2149$5F2.1601@nwrddc01.gnilink.net>
Source record: 15462

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:guqob4$6r6$1@node1.news.atman.pl...
>
> Is not this very funny?
> S*
>

no, it is sad. you come asking questions, and refuse to accept the
answers... like i said before, you should talk to art, you two will get
along well.

3189. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 01:18:33 UTC
From: Allodoxaphobia <bit-bucket@config.com>
Message-ID: <slrnh14279.1k14.bit-bucket@shell.config.com>
Source record: 15463

On Mon, 18 May 2009 11:09:13 -0700, Al Lorona wrote:

> Thinking about it some more, perhaps the limiting factor becomes not
> bridges and overpasses, but fast food drive-thrus and gas station
> roofs.

I can still remember my dad (the first W3DHJ) telling the story of the night back in 1952 when he had to buy seven 8' fluorescent lamps at a gas station somewhere outside Pasco, Wash.

The maximum height for _my_ mobile antennas is 7' 1". My garage door is at 7' 2" and I know someday I'll blissfully drive into the garage someday with the 6M Halo mounted.

Jonesy W3DHJ
--
Marvin L Jones | jonz | W3DHJ | linux
38.24N 104.55W | @ config.com | Jonesy | OS/2
* Killfiling google & XXXXbanter.com: jonz.net/ng.htm

3190. Re: change of address

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 03:14:22 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <XjpQl.44281$19.24082@bignews2.bellsouth.net>
Source record: 15464

You will have to sign up and become registered in the ULS system (free).
Then you will be issued an FCC account number. Write this down or print it
out. You will need your FCC I.D. number any time you wish to make changes to
account profile. Your callsign will not work as a substitute.

Spend an hour patiently studying the website. Eventually you will learn how
to navigate and use the system successfully. It is worth the effort. Don't
hesitate to take notes of important tips. Good luck.

Ed, AJ4PJ

"Will" <whenry21214@nospamyahoo.com> wrote in message
news:5nlQl.2133$5F2.601@nwrddc01.gnilink.net...
>
> "David G. Nagel" <nagel.david@sbcglobal.net> wrote in message
> news:kw2Ql.4234$fD.2559@flpi145.ffdc.sbc.com...
>> Will wrote:
>>> I guess this sin't the appropriate newsgroup but I'm going to take the
>>> chance of asking this anyway: I've moved and would like to know the
>>> correct URL to notify the FCC my status to update my liscense . Thanks
>>> in advance .
>>> I went to www.fcc.gov and couldn't seem to locate the necessary info
>>> from within so again,thanks in advance .
>> Will;
>>
>> I you are a member of the ARRL you can have them process your change of
>> address.
>>
>> Dave WD9BDZ
>
> I'm not a member of the ARRL yet so I believe I'll take the online method
> at the FCC's website. Thanks everyone here for the help and hope to catch
> you on the air some time .
> BTW the call here is Kilo Alpha 3 Victor India Delta . Take care and an
> early Happy Memorial Day also !
>

3191. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 04:01:08 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <22338549-6191-46ec-8cd2-3da5cbac3211@h23g2000vbc.googlegroups.com>
Source record: 15465

On May 18, 9:18 pm, Allodoxaphobia <bit-buc...@config.com> wrote:
> On Mon, 18 May 2009 11:09:13 -0700, Al Lorona wrote:
> > Thinking about it some more, perhaps the limiting factor becomes not
> > bridges and overpasses, but fast food drive-thrus and gas station
> > roofs.
>
> I can still remember my dad (the first W3DHJ) telling the story of the
> night back in 1952 when he had to buy seven 8' fluorescent lamps at a
> gas station somewhere outside Pasco, Wash.
>
> The maximum height for _my_ mobile antennas is 7' 1". My garage
> door is at 7' 2" and I know someday I'll blissfully drive into
> the garage someday with the 6M Halo mounted.
>
> Jonesy W3DHJ
> --
> Marvin L Jones | jonz | W3DHJ | linux
> 38.24N 104.55W | @ config.com | Jonesy | OS/2
> * Killfiling google & XXXXbanter.com: jonz.net/ng.htm

I did that atanold abandoned gas station one night when I oulled under
the canopy to get out of a storm. It didnt look like I was the first
to do it.

Jimmie

3192. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 05:06:44 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <F7rQl.95698$HZ1.6723@newsfe15.iad>
Source record: 15466

<jimp@specsol.spam.sux.com> wrote in message
news:u1m8e6-f1n.ln1@mail.specsol.com...
> Al Lorona <al_lorona@agilent.com> wrote:
> >
> > "Dave Platt" <dplatt@radagast.org> wrote in message
> > news:9157e6-ffg.ln1@radagast.org...
> >> In article <NN4Ql.30039$Ws1.25910@nlpi064.nbdc.sbc.com>,
> >>
> >> Take a look at
> >>
> >> http://wwwcf.fhwa.dot.gov/legsregs/directives/fapg/0625sup.htm
> >>
> >
> > Thanks, Dave, for the exact reference sites. They were helpful. And
thanks
> > to all the others for their replies.
> >
> > I think it's clear that finding one number-- one right answer-- is
> > difficult. I just called the California Highway Patrol office in
Altadena
> > and found that there really is no right answer. The guy at the front
desk
> > said that the "consensus" in the office was 14 feet. And of course he
was
> > speaking only for California. He said that there's no separate
regulation
> > for antennas, only the number for total vehicle height. There seems to
be no
> > urgency on the part of the CHP to refer to a vehicle code to enforce the
> > height.
> >
.
>
> Don't even think about going to Vegas with an antenna much over 8 feet
> tall unless you plan on parking in the back 40 with the RV's.

I drive my Dodge Caravan to Las Vegas and my little MFJ dual-band mag mount
hits the overhead in some parking structures. I sometimes remember to
unscrew the element on the way in.

Fast food joints often have a pipe hanging on chains as a noisy warning that
something won't clear their building.

3193. Re: Conjugate Match and Mismatch Attenuation

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 06:18:17 UTC
From: dykesc <cupstidd@bellsouth.net>
Message-ID: <9a4ee5e3-27de-4bc8-a563-656f45960a0a@s16g2000vbp.googlegroups.com>
Source record: 15468

On May 15, 11:07 pm, Owen Duffy <n...@no.where> wrote:
> See TLLC athttp://www.vk1od.net/calc/tl/tllc.php, or TWLLC
athttp://www.vk1od.net/calc/tl/tllc.php.
>
> My article "Additional loss due to VSWR" athttp://vk1od.net/blog/?p=316
> canvasses the issue.
>
> Owen

Thanks Owen. Very useful and an eye opener for me.

3194. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 06:18:18 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <lasQl.72756$BX.57498@newsfe18.iad>
Source record: 15467

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:guobatmnh1@node1.news.atman.pl...
> Raman discovered that some substances can rework one frequency into
> many (also in higher).
> May be that a cotton screan also rework.

This is a subject I have considerable experience in. My group at Eastman developed a process Raman spectrometer that used communications grade fibers to transmit both the excitation wavelength and the anti-Stokes Raman scattered light. Chalcogenide fibers, at around $1K per foot, would be needed to transmit the IR wavelengths needed for the analysis we were doing. The communication grade fibers cost less than one foot of the expensive fibers for the entire several hundred feet needed to separate the analyzer from the chemical process. Our patents were eventually licensed to the Rosemount division of Emerson Electric.

Raman spectroscopy is based on the _non-linear_ (inelastic) scattering of photons. It is quite weak; more than 100 million photons are reflected by the linear (elastic) Rayleigh scattering for every photon reflected by Raman scattering.

I am convinced now that Szczepan Bialek is nothing more than an offensive troll. It is best to ignore him as the physics newsgroups seem to have done. May he bask in his own stupidity! Or perhaps he and Art and the gays and the gay bashers could form their own "alt.troll" newsgroup.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

3195. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 11:37:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <YRwQl.26821$c45.12393@nlpi065.nbdc.sbc.com>
Source record: 15469

Jim Kelley wrote:
>> For instance, standing waves
>> consist of photons that cannot stand still.
>
> As opposed to consisting of photons that _can_ stand still? :-)

Some people will argue that EM standing waves are
actually standing still which implies that photons
can stand still which they cannot. This is easy
to see if one visualizes standing waves of light
in free space as Hecht does in "Optics". There's
no voltage or current to muddy the issue. One is
forced to deal with photonic E-fields and H-fields
in free space.

It's the same old misconception. If net energy
transfer is zero, some believe that means the
energy carriers are not moving. But as Hecht
says, it is the *profile* of the standing wave
that doesn't move. The standing wave profile
is a human abstraction and according to Hecht,
standing waves do not deserve to be called waves
at all: "They might better not be called waves at
all, since they do not transport energy and momentum."
"Standing waves" is a misnomer, i.e. they don't stand
still and they do not meet the definition of "wave".

On another newsgroup, I pointed out the above
concept of EM waves just standing there is similar
to the idea that since the number of northbound
vehicles on the Golden Gate Bridge equal the number of
southbound vehicles, there is no net traffic flow and
therefore no maintenance of the bridge is required.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3196. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 11:41:44 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <XVwQI.26822$c45.3004@nlpi065.nbdc.sbc.com>
Source record: 15470

Sal M. Onella wrote:
> Fast food joints often have a pipe hanging on chains as a noisy warning that
> _something_ won't clear their building.

OTOH, they often have a low awning over the drive
through window with no warning of the low height.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3197. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 13:40:04 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <guu3rlnjq1@node1.news.atman.pl>
Source record: 15471

Uďż˝ytkownik "Szczepan Biaďż˝ek" <sz.bialek@wp.pl> napisaďż˝ w wiadomoďż˝ci
news:guobatmnh1@node1.news.atman.pl...
>
>
> Raman discovered that some substances can rework one frequency into many
> (also in higher).
> May be that a cotton screan also rework.

Next Dr. wrote:
"> This is a subject I have considerable experience in. My group at Eastman
> developed a process Raman spectrometer that used communications grade
> fibers to transmit both the excitation wavelength and the anti-Stokes
> Raman scattered light. Chalcogenide fibers, at around $1K per foot, would
> be needed to transmit the IR wavelengths needed for the analysis we were
> doing. The communication grade fibers cost less than one foot of the
> expensive fibers for the entire several hundred feet needed to separate
> the analyzer from the chemical process. Our patents were eventually
> licensed to the Rosemount division of Emerson Electric.
>
> Raman spectroscopy is based on the _non-linear_ (inelastic) scattering of
> photons. It is quite weak; more than 100 million photons are reflected by
> the linear (elastic) Rayleigh scattering for every photon reflected by
> Raman scattering.

For this reason it was observed very late (1928). It is seen on the film
after many hours of continued radiation.
>
> I am convinced now that Szczepan Bialek is nothing more than an offensive
> troll. It is best to ignore him as the physics newsgroups seem to have
> done. May he bask in his own stupidity! Or perhaps he and Art and the
> gays and the gay bashers could form their own "alt.troll" newsgroup.

YOU ALL make me troll. For my simple question, instead of answers, you send
questions. "Why you want to know?", "Why you write here?". I simply try to
be polite and I write.
You was the first who wrote (in the answer in my topic): "Nowhere in all of
the respected literature will you find frequency
doubling caused by the two ends of a dipole."
Till now nobody answered me why the polarisation of radio waves disappear
after long way.
Only Richard wrote that the term "polarisation" apply to an equipment. To
waves rather "polarity".
Too late for me for study. "Trolling" is more efficient. About the frequency
multiplying now I know eneugh.
About light polarisation not all. The radio waves and the apparatus are

large enough to observe this phenomenon. The Hertz apparatus is the best for
it. Of course the emitter only. To analise the waves is necessary more
sophisticated than the ring.
S*

>>
>> In the case of a TV screen, you're seeing either:
>>
>> - The mixed emissions of a set of red, green, and blue phosphors,
>> individually excited by electron beams [for CRT displays], or
>>
>> - The emission from the phosphors of a cold-cathode fluorescent
>> backlighting lamp (a complex spectrum with multiple peaks) filtered
>> through red, green, and blue pixel-sized filters (for most LCD
>> tubes).
>>
>> In traditional film cinema, you're seeing the emissions of an
>> incandescent or halogen bulb (fairly continuous spectrum) filtered
>> through three colors of dye in the film print.
>>
>> The fact that these complex mixtures of overlapping color spectra can
>> look "pure white" to our eyes, is due in large part to our complex
>> nervous systems. Our eye/brain systems adapt to the mix of colors
>> present under differnet lighting conditions, and interpret different
>> combinations as "pure white" depending on what's available at the time.
>
> Yes. But for me is interesting the phenomenon at reflecting, scatering and
> refraction. May be that "polarisation" is an effect of that.
>>
>> This is why, for example, indoor fluorescent lighting can actually
>> look half-decent to our eyes once we get used to it (we "see" a fairly
>> complete range of colors there) but what looks "white" to use under
>> fluorescents will actually have a distinctly greenish cast to a film
>> or digital camera.
>>
>> It's also why a rather curious phenomenon can be demonstrated. The
>> *exact* same mix of color emissions may look very different to us,
>> under different ambient lighting conditions... what might look
>> greenish outdoors will look pure white or even slightly pinkish under
>> indoor fluorescent lighting, because our brains *interpret* that input
>> differently due to the different surroundings.
>
> Is the light polarisation the hard prove that light vaves are transversal?
> S*
>
>
>>
>> --
>> Dave Platt <dplatt@radagast.org> AE6EO
>> Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior

>> I do _not_ wish to receive unsolicited commercial email, and I will
>> boycott any company which has the gall to send me such ads!
>

3198. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 13:42:48 UTC
From: nm5k@wt.net
Message-ID: <340e4ce9-0fac-4471-b3ff-399410d84790@d38g2000prn.googlegroups.com>
Source record: 15472

On May 18, 1:28 pm, Cecil Moore <nos...@w5dxp.com> wrote:

>
> For one of the CA 75m shootouts that I prepared for,
> I had a white PVC pipe extending up about 9 feet from
> the tool box on my pickup.

On the truck with the highest antenna mount, "64 inches
from the ground", my 11 ft tall antenna is 16.3 inches at
the tip. In the parked mode with the extra 3 ft mast extension,
it's at 19.3 inches. And the loading coil is 8 ft above the
base.
The other truck has a lower mount which is maybe 1.5-2 ft lower
at the base of the antenna. It's mount is on top of the utility
bed side tops which are tool boxes, and fairly wide.
The first truck has the mount up on the cab just a few inches
below the roof.
But.. I've been trying to sell that truck.. :(
But I could place the mount at the same place on the other
one if I really wanted to. I might once the other one is gone.
One thing.. my antenna sways back a bit at speed, so I
can clear objects lower than the actual antenna height if I'm
going fast enough. The most seen problem is whacking
trees in residential areas.. I have the mount on the drivers
side, and I still have to dodge some of the trees. Some
I can't dodge, so I hear the "whack".. But the top 5 ft is
thin flexible whip, so no big deal.
I don't think I've ever noticed hitting a bridge or overpass.
I've still been too chicken to try to mount an antenna on
my Corolla... Not too many ways to go, and most all
of them will end up buggering up the car before it's over
with. :(

3199. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 13:51:57 UTC
From: jimlux@earthlink.net
Message-ID: <8a82d587-3180-4b73-a0cd-1879a0533a13@d25g2000prn.googlegroups.com>
Source record: 15473

On May 18, 11:09 am, "Al Lorona" <al_lor...@agilent.com> wrote:
> "Dave Platt" <dpl...@radagast.org> wrote in message
>
> news:9157e6-ffg.ln1@radagast.org...
>
> > In article <NN4Ql.30039$Ws1.25...@nlpi064.nbdc.sbc.com>,
>
> > Take a look at
>
> > http://wwwcf.fhwa.dot.gov/legsregs/directives/fapg/0625sup.htm
>
> Thanks, Dave, for the exact reference sites. They were helpful. And thanks
> to all the others for their replies.
>
> I think it's clear that finding one number-- one right answer-- is
> difficult. I just called the California Highway Patrol office in Altadena
> and found that there really is no right answer. The guy at the front desk
> said that the "consensus" in the office was 14 feet. And of course he was
> speaking only for California. He said that there's no separate regulation
> for antennas, only the number for total vehicle height. There seems to be no
> urgency on the part of the CHP to refer to a vehicle code to enforce the
> height.
>
> As you saw, the replies to my post ranged from 12.5 to 14 feet. It surprises
> me that the standard deviation implied by this spread is that large.
>
> All in all, this has been very surprising.
>
> Thinking about it some more, perhaps the limiting factor becomes not bridges
> and overpasses, but fast food drive-thrus and gas station roofs.

very much true, Al. Bent more than one antenna bracket forgetting
about the 9 foot stalk poking up.

3200. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 13:58:37 UTC
From: jimlux@earthlink.net
Message-ID: <4a85605e-9987-4ca7-80a1-7fe20a527aa8@y6g2000prf.googlegroups.com>
Source record: 15474

On May 19, 6:51 am, jim...@earthlink.net wrote:
> On May 18, 11:09 am, "Al Lorona" <al_lor...@agilent.com> wrote:
>
>
>
> > "Dave Platt" <dpl...@radagast.org> wrote in message
>
> >news:9157e6-ffg.ln1@radagast.org...
>
> > > In article <NN4Ql.30039$Ws1.25...@nlpi064.nbdc.sbc.com>,
>
> > > Take a look at
>
> > > http://wwwcf.fhwa.dot.gov/legsregs/directives/fapg/0625sup.htm
>
> > Thanks, Dave, for the exact reference sites. They were helpful. And thanks
> > to all the others for their replies.
>
> > I think it's clear that finding one number-- one right answer-- is
> > difficult. I just called the California Highway Patrol office in Altadena
> > and found that there really is no right answer. The guy at the front desk
> > said that the "consensus" in the office was 14 feet. And of course he was
> > speaking only for California. He said that there's no separate regulation
> > for antennas, only the number for total vehicle height. There seems to be no
> > urgency on the part of the CHP to refer to a vehicle code to enforce the
> > height.
>
> > As you saw, the replies to my post ranged from 12.5 to 14 feet. It surprises
> > me that the standard deviation implied by this spread is that large.
>
> > All in all, this has been very surprising.
>
> > Thinking about it some more, perhaps the limiting factor becomes not bridges
> > and overpasses, but fast food drive-thrus and gas station roofs.
>
> very much true, Al. Bent more than one antenna bracket forgetting
> about the 9 foot stalk poking up.

One other thing to think about, what with all the quotes from the
federal standards..
The states don't have to follow the standards for ALL roads. A state
can say "on federal highways the limit is X, but on all other roads
it's Y (where Y<X)". For that matter, in some states, local
municipalities can set different limits. This makes for nice revenue

enhancement opportunities. "Well son, here in X, the limit for semi trucks is 15 feet, but for funny looking antennas on cars with funny license plates, it's 8 feet. Please step out of the car and keep your hands in plain sight."

A friend ran into this distinction (except for it being width) in, I think, Nebraska (somewhere in the great plains)... Federal standards are 108 inches, local rule is 96.. and there are difference in whether you count rear view mirrors. If only he had stayed on the interstate.

3201. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 17:20:56 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <0tp515l29ldhbaiusvspmrj7pj5li74kmu@4ax.com>
Source record: 15475

On Tue, 19 May 2009 15:40:04 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>YOU ALL make me troll.

You must suffer terribly from our imposition, but your form of cure
isn't going to answer the absolutely stupid things that you write.

>Only Richard wrote that the term "polarisation" apply to an equipment. To
>waves rather "polarity".

Something you still don't understand - even in direct translation.

>Too late for me for study.

Too lazy, rather, as evidenced by:

>"Trolling" is more efficient.

If you had been sent out of the caves to "efficiently" discover fire,
we would have returned to living in the trees.

73's
Richard Clark, KB7QHC

3202. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 17:30:44 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <aN6dnWV9loNacY_XnZ2dnUVZ_j9i4p2d@posted.easystreetonline>
Source record: 15476

Jeff Liebermann wrote:
>
> Ok. That's closer than most of the off topic rubbish the pollutes
> most newsgroups. I can see you logic. After reading some of the
> postings in this newsgroup, I too might suspect that exposure to RF
> and antennas might produce insanity, illogic, political conservatism,
> and delusions of omniscience. . .

The effect seems to peak at about 75 meter wavelength, with a minor peak at about 2 meters. The cautious and same amateur will avoid exposure to those wavelengths.

Roy Lewallen, W7EL

3203. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 18:03:40 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <guusbkhav1@news.service.uci.edu>
Source record: 15477

Cecil Moore wrote:
> Jim Kelley wrote:
>>> For instance, standing waves
>>> consist of photons that cannot stand still.
>>
>> As opposed to consisting of photons that _can_ stand still? :-)
>
> Some people will argue that EM standing waves are
> actually standing still which implies that photons
> can stand still which they cannot.

Some might infer such things, but I don't know who. You're the only one
that I know of who says things like that.

> On another newsgroup, I pointed out the above
> concept of EM waves just standing there is similar
> to the idea that since the number of northbound
> vehicles on the Golden Gate Bridge equal the number of
> southbound vehicles, there is no net traffic flow and
> therefore no maintenance of the bridge is required.

Certainly a far cry from the idea you tried to sell on this newsgroup
that interference patterns cause northbound vehicles to move in a
southbound direction and southbound vehicles to move in a northbound
direction.

ac6xg

3204. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 18:51:45 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <z-idncovyfVZYo_XnZ2dnUVZ_qmdnZ2d@posted.easystreetonline>
Source record: 15478

Roy Lewallen wrote:
>
> The effect seems to peak at about 75 meter wavelength, with a minor peak
> at about 2 meters. The cautious and same amateur will avoid exposure to
> those wavelengths.

I of course meant "sane" and not "same". My apology for the typo.

Roy Lewallen, W7EL

3205. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 19:17:40 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <QxDQl.7325$Lr6.1824@flpi143.ffdc.sbc.com>
Source record: 15479

Jim Kelley wrote:
> Certainly a far cry from the idea you tried to sell on this newsgroup
> that interference patterns cause northbound vehicles to move in a
> southbound direction and southbound vehicles to move in a northbound
> direction.

There you go again, Jim, continuing to blame me for a poor choice of words that, at your urging, I recanted more than a year ago. I rewrote my energy article to remove any reference to interference as the cause of anything. The footnote says: "...since interference can occur with or without wave cancellation, any reference to interference as the cause of the redistribution of energy has been removed."

Exactly how long can you hold a grudge about a poor choice of words that was corrected long ago at your urging? Would you like for me to change it back so you can justify continuation of your incessant compulsive bitching?

Or is it that you still don't understand the FSU web page?

micro.magnet.fsu.edu/primer/java/scienceopticsu/interference/waveinteractions/index.html

"... when two waves of equal amplitude and wavelength that are 180-degrees ... out of phase with each other meet, they are not actually annihilated, ... All of the photon energy present in these waves must somehow be recovered or redistributed in a new direction, according to the law of energy conservation ... Instead, upon meeting, the photons are redistributed to regions that permit constructive interference, so the effect should be considered as a redistribution of light waves and photon energy rather than the spontaneous construction or destruction of light."

That redistribution of energy cannot happen without interference. For the umteenth time, I apologize for ever saying that interference causes the redistribution. If you will mail me a Xerox of your posterior, I will kiss it and send it back to you if that would help.

Here is how Hecht defines "interference" in "Optics":

"Briefly then, optical Interference corresponds to the interaction of two or more lightwaves yielding a resultant irradiance that deviates from the sum of the component irradiances."

Sure sounds like interference corresponds to (rather than
causes) the redistribution of photon energy as described on
the FSU web page.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3206. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 19:57:22 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <B1EQl.43074$9a.14737@bignews1.bellsouth.net>
Source record: 15480

"Roy Lewallen" <w7el@eznec.com> wrote in message
news:z-idncovyfVZYo_XnZ2dnUVZ_qmdnZ2d@posted.easystreetonline...
> Roy Lewallen wrote:
>>
>> The effect seems to peak at about 75 meter wavelength, with a minor peak
>> at about 2 meters. The cautious and same amateur will avoid exposure to
>> those wavelengths.
>
> I of course meant "sane" and not "same". My apology for the typo.
>
> Roy Lewallen, W7EL

Of course, it is a given that the only truly sane band is six meters.

Ed, AJ4PJ

3207. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 20:37:41 UTC
From: JB <nospam@goofball.net>
Message-ID: <pMEQI.2366$5F2.621@nwrddc01.gnilink.net>
Source record: 15481

All of which means it is a good idea to have a pulley system to both guy a long antenna and quickly retract it like you see on mil vehicles. I have had to go out and remove an 800 spike when entering parking garages, so it is a good idea to make those mounts easily accessable. I like to put them where I can reach them from the driver or passenger door. KNOW YOUR CLEARANCE! I often use an old expendable CB whip for HF reception and go out and swap antennas when I want to get on the air.

3208. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-19 23:17:55 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <guvep1$nk2$1@news.service.uci.edu>
Source record: 15482

Cecil Moore wrote:
> Jim Kelley wrote:
>> Certainly a far cry from the idea you tried to sell on this newsgroup
>> that interference patterns cause northbound vehicles to move in a
>> southbound direction and southbound vehicles to move in a northbound
>> direction.

> Or is it that you still don't understand the FSU web page?

:-) Why are there never any examples provided to support these
'suggestions' of yours?

So now you minimize the fact that you argued vehemently with everyone
for endless months over your malformed ideas about how energy moves in
impedance matching systems. After I found the Melles-Griot web page
which seemed to support your idea, I realized the idea was physically
impossible and tried to persuade you away from it. I let you know in
every way I could that you had it wrong, and gave you every possible
example of it that I could think of, and in the process you called me
every nasty insulting thing you could think of. So yeah, I guess I do
have a tendency not to overlook it as easily as you do.

> If
> you will mail me a Xerox of your posterior, I will kiss
> it and send it back to you if that would help.

No, but an admission that for months you behaved like a horse's
posterior would.

> Sure sounds like interference corresponds to (rather than
> causes) the redistribution of photon energy as described on
> the FSU web page.

Yes it does. In fact that's one of the many ways I explained it to you
back when you wrote about how stupid, ignorant, and wrong I was about it
and how everyone from Galileo to Eugene Hecht agreed with you. What I
don't recall is ever seeing you take any of that back.

ac6xg

3209. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 04:18:44 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <FwLQl.72904$BX.43766@newsfe18.iad>
Source record: 15483

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:XVwQl.26822$c45.3004@nlpi065.nbdc.sbc.com...
> Sal M. Onella wrote:
> > Fast food joints often have a pipe hanging on chains as a noisy warning
that
> > _something_ won't clear their building.
>
> OTOH, they often have a low awning over the drive
> through window with no warning of the low height.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Yeah, I've seen it that way, too.

Years ago, I manged to run the right front corner of my pickup camper into
an overhanging tree branch. No, not at 2AM with a snootful. It was
noontime and I was pulling out a parking space in front of the post office.
That tree would have been an antenna-killer.

3210. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 12:29:45 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <VISQI.30157$Ws1.13303@nlpi064.nbdc.sbc.com>
Source record: 15484

Jim Kelley wrote:
> So now you minimize the fact that you argued vehemently with everyone
> for endless months over your malformed ideas about how energy moves in
> impedance matching systems.

I apologized over a year ago and changed my article.
Exactly how long are you going to harass me about
a poor choice of words that I used in the distant
past for which I have apologized multiple times?

There was nothing wrong with the ideas and concepts
which have always been valid. The problem was with
the definitions of the words I was using, i.e. 100%
semantic.

I was using definitions of "reflection" and
"interference" that differ from the pure physics
definitions. I have admitted it and changed all my
articles. Do you want me to go to the nearest
police station and confess my semantic capital
offense or just go sit in the electric chair and
wait?

> No, but an admission that for months you behaved like a horse's
> posterior would.

I will admit to treating you the way you treat me.
Whatever ad hominem label you choose for your harassing
behavior is OK with me. But it is not clear why you
continue that same harassment years after I have repented
of my cardinal sins, been forgiven by God himself,
apologized to you multiple times, and changed my articles
at your urging.

Do you continue to kick your poor dog after he stopped
wetting the floor more than a year ago?

>> Sure sounds like interference corresponds to (rather than
>> causes) the redistribution of photon energy as described on
>> the FSU web page.
>
> Yes it does.

Finally.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3211. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 15:24:32 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gv0uau$91s$1@node1.news.atman.pl>
Source record: 15485

"Richard Clark" <kb7qhc@comcast.net> wrote
news:0tp515l29ldhbaiusvspmrj7pj5li74kmu@4ax.com...
> On Tue, 19 May 2009 15:40:04 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>YOU ALL make me troll.
>
> You must suffer terribly from our imposition, but your form of cure
> isn't going to answer the absolutely stupid things that you write.
>
>>Only Richard wrote that the term "polarisation" apply to an equipment. To
>>waves rather "polarity".
>
> Something you still don't understand - even in direct translation.

I do my best. Posting is also a free English lessons. It is a good method
(only the long hair dictionary is better).
So do not discourage. You are doing a good job.

>>Too late for me for study.
>
> Too lazy, rather, as evidenced by:
>
>>"Trolling" is more efficient.
>
> If you had been sent out of the caves to "efficiently" discover fire,
> we would have returned to living in the trees.

Laurence Hecht advices return to Ampere. Gauss, Weber. See:
http://21stcenturysciencetech.com/articles/spring01/Electrodynamics.html
and:
http://21stcenturysciencetech.com/edit.html

What do you think about such "funny" stories?
S*

3212. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 16:41:28 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <9ka815pcnl31hurrkl3qq0rcchs9fsf74i@4ax.com>
Source record: 15486

On Tue, 19 May 2009 10:30:44 -0700, Roy Lewallen <w7el@eznec.com>
wrote:

>Jeff Liebermann wrote:
>>
>> Ok. That's closer than most of the off topic rubbish the pollutes
>> most newsgroups. I can see you logic. After reading some of the
>> postings in this newsgroup, I too might suspect that exposure to RF
>> and antennas might produce insanity, illogic, political conservatism,
>> and delusions of omniscience. . .

>The effect seems to peak at about 75 meter wavelength, with a minor peak
>at about 2 meters. The cautious and same amateur will avoid exposure to
>those wavelengths.
>
>Roy Lewallen, W7EL

Ham radio has its very own industry specific cancer called "cancer of
the vocabulary". Upon over-exposure to RF, a fairly normal individual
will soon develop symptoms which include ultra-long monologs,
inserting "ahhhhh" between sentences, foaming at the mouth, phonetic
alphabet creativity, and an apparently irresistible urge to eat
microphones. An early indication of impending trouble is a tendency
to identify oneself with a call sign after leaving a voicemail
message. Advanced cases exhibit additional symptoms of language
aberrations, political conservatism, compulsive knob twiddling, an
insatiable desire to listen for intelligence in random white noise, a
preference toward high wire acrobatics, and strangely coded speech.
After several decades of RF exposure, the victim may show symptoms of
pontification, pomposity, self-authority, and ossification of the
technology. While not fatal, cancer of the vocabulary has been known
to cause divorce, impoverishment, and curmudgeonificiation.
Unfortunately, the symptoms are not reversible, even when the victim
has withdrawn from ham radio for extended periods, such as to raise a
family.

Despite almost a century of historical data, little effort has been
made to correlate RF exposure with cancer of the vocabulary. I
suspect this may be due to the efforts of the ARRL to block such
research. While it is obvious that different frequencies had
different effects, it would be both interesting and useful if the
connection were properly researched and documented. For example, it's
apparent that exposure to low frequency (HF) waves causes a marked
preference for noisy environments, the exact opposite effect is found
after exposure to high frequencies (VHF), where signal clarity is

preferred. This phenomenon and others should be investigated.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3213. Thanks

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 17:41:10 UTC
From: RF King <TravisCurrier@gmail.com>
Message-ID: <349ab699-79e9-488a-bdaa-b5399941816f@u10g2000vbd.googlegroups.com>
Source record: 15487

As a former Engineer I want to take the time to share a very good
website to this group. They sale RF & Microwave Products. I don't want
to spam this group I just thought you might be interested in my
products. I will post sales everyonce in a while for you guys.

Please Visit:

www.RFKings.com

And here is a 20% off coupon to say thanks:

Coupon Code: RFK20SALE

Travis Currier
RF Kings
Phone: 949-276-7378
Email:sales@rfkings.com
Website: www.rfkings.com
Location: Laguna Niguel, CA

3214. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 18:01:07 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a14454e$0$18863$8046368a@newsreader.iphouse.net>
Source record: 15488

Jeff Liebermann wrote:
> connection were properly researched and documented. For example, it's
> apparent that exposure to low frequency (HF) waves causes a marked
> preference for noisy environments, the exact opposite effect is found
> after exposure to high frequencies (VHF), where signal clarity is
> preferred. This phenomenon and others should be investigated.
>

Obviously you've never been interested in weak signal V/U/SHF or EME.
These tend to lead to shack environmental noise levels approximating
WWII destroyer engine rooms. Another side effect is hearing CW in wind
noise when driving at over 60mph.

tom
K0TAR

3215. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 19:44:56 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <0mm815p6v3s8s5o942e5dh9f60o7gu3nf2@4ax.com>
Source record: 15489

On Wed, 20 May 2009 13:01:07 -0500, Tom Ring <news0004@taring.org>
wrote:

>Jeff Liebermann wrote:
>> connection were properly researched and documented. For example, it's
>> apparent that exposure to low frequency (HF) waves causes a marked
>> preference for noisy environments, the exact opposite effect is found
>> after exposure to high frequencies (VHF), where signal clarity is
>> preferred. This phenomenon and others should be investigated.

>Obviously you've never been interested in weak signal V/U/SHF or EME.
>These tend to lead to shack environmental noise levels approximating
>WWII destroyer engine rooms. Another side effect is hearing CW in wind
>noise when driving at over 60mph.
>
>tom
>K0TAR

I've done a little of that at VHF frequencies using various digital
modes. I was considering organizing a new certificate for "Worked all
Digital Modes", but every time I add a new mode to my computah,
someone invents yet another digital mode.
<http://www.kb9ukd.com/digital/>
<http://www.wb8nut.com/digital.html>
With weak signal digital modes, there's no way to actually hear the
signal as it's well below the noise floor. Waterfall displays work
nicely for copying extremely slow CW. It's a little like modern
astronomy. Most astronomers never look through the eyepiece of a
telescope these days.

Although I'm not a CW operator, when I was into Field Day, it took
several days for me to NOT listen for weak signals under the noise of
conversation, traffic, AM/FM radio noises, etc.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3216. Re: Thanks

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 19:51:30 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <6bZQI.72953$CN5.19539@newsfe23.iad>
Source record: 15490
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.boatanchors,rec.radio.amateur.equipment

"RF King" <TravisCurrier@gmail.com> wrote in message
news:349ab699-79e9-488a-bdaa-b5399941816f@u10g2000vbd.googlegroups.com...
> As a former Engineer I want to take the time to share a very good
> website to this group. They sale RF & Microwave Products. I don't want
> to spam this group I just thought you might be interested in my
> products. I will post sales everyonce in a while for you guys.
>
> Please Visit:
>
> www.RFKings.com
>
> And here is a 20% off coupon to say thanks:
>
> Coupon Code: RFK20SALE
>
>
> Travis Currier
> RF Kings
> Phone: 949-276-7378
> Email:sales@rfkings.com
> Website: www.rfkings.com
> Location: Laguna Niguel, CA

He may not want to spam the group but he is more than willing to
send spam individually to your email address if he reads it from a
posting. He also sent at least seven other identical postings to
different newsgroups instead of cross posting. The site he
advertises is his. If you get spam, send your complaints to
abuse@hostmysite.com, groups-abuse@google.com,
and to his posting host abuse@cox.net.
The registrar of his site is Godaddy so you might wish to complain
there too. I have already received spam from this jerk before his
Usenet postings were sent.

--
I HATE SPAM !
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

3217. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-20 23:40:49 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a1494eb$0$18867$8046368a@newsreader.iphouse.net>
Source record: 15491

Jeff Liebermann wrote:
>
> I've done a little of that at VHF frequencies using various digital
> modes. I was considering organizing a new certificate for "Worked all
> Digital Modes", but every time I add a new mode to my computah,
> someone invents yet another digital mode.
> <http://www.kb9ukd.com/digital/>
> <http://www.wb8nut.com/digital.html>
> With weak signal digital modes, there's no way to actually hear the
> signal as it's well below the noise floor. Waterfall displays work
> nicely for copying extremely slow CW. It's a little like modern
> astronomy. Most astronomers never look through the eyepiece of a
> telescope these days.

Well, the June VHF QSO Party is in about 3 weeks. Try some non-digital
weak signal. It's fun! I'll be the primary op on our 6m station
running under the club call W0AUS from EN34. No high power this year
since we'll be within LOS of the Twin Cities metro at maybe 300 feet
above local average terrain. We'll be multimulti 6 through 10G,
probably all bands.

I've done some of the digital modes. High speed meteor burst, MFSK, and
PSK31 - really weak stuff with power as low as 50mW back when almost no
one was on it. My personal favorite is Hellschreiber, it's the oldest
(as far as I know) and sounds so cool.

>
> Although I'm not a CW operator, when I was into Field Day, it took
> several days for me to NOT listen for weak signals under the noise of
> conversation, traffic, AM/FM radio noises, etc.

Yup, after 24 to 40 hours of noise with embedded weak or even not weak
CW and SSB and almost no sleep, you start to hear lots of things.

tom
K0TAR

3218. Citizen Women's Eco-Drive Palidoro Swarovski Crystal Accented Watch #EG2500-57A

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 08:09:08 UTC
From: Ales@tova.com
Message-ID: <4a158aab$0$4897$ec3e2dad@news.usenetmonster.com>
Source record: 15497

Price:$275.00
Image: http://bestdeallocator.info/image.php?id=B000ZPOWJA
Best deal: http://bestdeallocator.info/index.php?id=B000ZPOWJA

Adorned with sparkling crystals on its bezel, the Palidoro #EG2500-57A from Citizen's solar powered Eco-Drive Collection is truly stunning. A rectangular, silver-tone stainless steel case and bezel surround an understated white dial, complete with silver-tone hands and Arabic numeral hour markers at six and 12 o'clock. There's also an intricate link bracelet band that looks cool and sophisticated in its silver tone, and a deployment clasp with push button for secure, comfortable wear. Water resistant to 330 feet, the Palidoro comes with a five warranty.

SIMILAR PRODUCTS:

Apple iPod touch 16 GB (2nd Generation):http://bestdeallocator.info/index.php?id=B001FA1NZU

ACCESSORIES:

Citizen Women's Eco-Drive Silhouette Swarovski Crystal Accented Watch #EG2272-50D:http://bestdeallocator.info/index.php?id=B0007OEQZE
Citizen Women's Eco-Drive Palidoro Swarovski Crystal Accented Gold-Tone Watch #EG2022-57A:http://bestdeallocator.info/index.php?id=B000ZPKWRG
Citizen Women's Eco-Drive Riva Diamond Accented Watch #EW0890-58D:http://bestdeallocator.info/index.php?id=B000ZPQSBK
Citizen Women's Eco-Drive Palidoro Swarovski Crystal Accented Watch #EG2020-52A:http://bestdeallocator.info/index.php?id=B000ZPOWHC

3219. Kenneth Cole New York Men's Dress Explorer Collection Leather Watch #KC1522

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 09:01:33 UTC
From: Astorga@loreta.com
Message-ID: <4a1596f3$0$4897$ec3e2dad@news.usenetmonster.com>
Source record: 15500

Price:$150.00
Image: http://bestdeallocator.info/image.php?id=B001BFMURO
Best deal: http://bestdeallocator.info/index.php?id=B001BFMURO

The sophisticated Kenneth Cole New York Men's Explorer Collection Leather Watch is designed with a rectangular dial, which features two unique subdials that track the minutes and seconds. The timepiece is constructed with a stainless steel case, a stationary stainless steel bezel, and a black, polished reptile-pattern leather wristband with a buckle clasp. A strong mineral window shields the gray dial, which features silver-tone hour markers paired with discreet Arabic numeral hour indexes. The dial also includes silver-tone watch hands and the watch's two dark gray subdials. Powered by Japanese-quartz movement, the watch is water resistant to 99 feet.

SIMILAR PRODUCTS:

Fiber Optical Toslink Digital Audio Optic Interface 6 Foot
Cable:http://bestdeallocator.info/index.php?id=B0002MQGOK

ACCESSORIES:

Kenneth Cole New York Men's Dress Explorer Collection Multi-Function Bracelet Watch
#KC3841:http://bestdeallocator.info/index.php?id=B001BFKS6Y
Kenneth Cole New York Men's Dress Explorer Collection Rose Gold Ion-Plated Strap Watch
#KC1524:http://bestdeallocator.info/index.php?id=B001BFKRDI
Kenneth Cole New York Men's Dress Explorer Collection Rose Gold Dial Strap Watch
#KC1523:http://bestdeallocator.info/index.php?id=B001BFOWM0
Kenneth Cole New York Men's Dress Explorer Collection Multi-Function Bracelet Watch
#KC3842:http://bestdeallocator.info/index.php?id=B001BFKSAU

3220. Skagen Men's Alarm Function Leather Watch #519XLSL1

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 09:45:23 UTC
From: Adley@amal.com
Message-ID: <4a15a139$0$4897$ec3e2dad@news.usenetmonster.com>
Source record: 15354

Price:$135.00
Image: http://bestdeallocator.info/image.php?id=B000IZAWFU
Best deal: http://bestdeallocator.info/index.php?id=B000IZAWFU

I have numerous schedule appointments during the day, and I prefer not to use the cell phone alarm feature as it's too distracting. The alarm function of the watch is personal. This watch is not nearly so dreadful as what other reviewers have whined about. Au contraire!

1) Accuracy -- I set this watch when I got it as a pre-Christmas present in November. It has varied only a few seconds since.

2) Alarm accuracy -- I don't see the problem. It's an analog dial, for Heaven's sake: not a precise cesium-clock, digital instrument. Like MOST ALL analog dial settings, the alarm is going to go off "in the close neighborhood" of where the hand is placed. This is exactly what I expected (and the other buyers should have expected), and that's what this watch delivers.

3) Alarm volume -- yes, it's not loud enough; I agree. -1/2 star

4) This is a VERY attractive watch. I've had lots of compliments, which is why I got it -- an inexpensive dress watch. The SS watch face has a VERY attractive metal "graining" to it that starts in the center and then spreads outward. Eye-catching is an understatement; whoever the design artist was for the face deserves a pay raise.

5) The only other complaints that makes me drop it to 4 stars is that it's too "tall" for my wrist and doesn't sit completely flat. This could be remedied by a redesign of the leather strap joint to the watch. But it's no big issue, and it's perfectly comfortable. The second complaint is that I don't have a huge wrist (see early in #5 here), but yet the leather strap is too short for all the "keepers." I don't understand this design problem, but it fits perfectly well, and there is PLENTY of room on the band for expansion. It's just that the keepers are somewhat useless, but they're on the bottom of the watch, so who cares?

If you're going to buy an $80 "dress watch," know what to expect, and you won't be disappointed. The only serious negative thing I have to say about this watch is the low alarm volume. Otherwise it looks gorgeous, and few people know how little it costs. It's a keeper, definitely.
This is a nice looking watch. I've had it for about a month now and it keeps perfect time. I have received numerous comments on how attractive it is. Overall a great watch for the price.
This watch is huge and bulky. Unlike all the other Skagens I own. The alarm function is not very accurate. Even if you try to set it on the hour, the alarm will go off 6-8 min before or after the set point. Alarm not loud enough.
nice styling - now if it only kept time. cannot compare with less expensive timex.
Quartz movement, Casual watch, Alarm, Silver-tone luminous hands, Silver-tone numbers and

indices, Brushed stainless steel bezel, crown, case, alarm selector button and caseback, Super hardened mineral crystal, 30 meters/100 feet water resistant
Dress to impress and keep yourself on schedule for important appointments day and night with this Skagen stainless steel men's analog watch, which offers an alarm function that's denoted by a red-tipped alarm hand. Sophisticated and modern in style, its large, 40mm round watch case elegantly flows into the integrated, tapered brown pebble leather strap (featuring tonal stitching). The silver dial face is supplemented by a mix of shiny stick and Arabic numeral markers along the outside edge as well as small minute indexes and luminous hands (with seconds hand). Other features include Japanese quartz movement, a scratch-resistant mineral crystal, and water resistance to 100 meters (330 feet)--offering protection from accidental splashes as well suitable for swimming, snorkeling, and light recreational diving. About Skagen Named after a fishing hamlet in Denmark on the northern tip of the Jutland peninsula, Skagen Designs was founded by Henrik and Charlotte Jorst in 1991 after the two Copenhagen natives moved to New York City. The company subscribes to the principle that beautifully designed, high-quality objects can be created at reasonable prices. Skagen watches represent the technical excellence, refined design and operational simplicity that have created the unique reputation of Danish design. The fishing village of Skagen--the Skaw--lies where the northern-most tip of the Danish peninsula known as Jutland bends East and breaks the surging waters of the Kattegat and Skagerak seas. The spectacular natural beauty of the area is compellingly beautiful, and its white sandy beaches have been visited by artists for centuries.

SIMILAR PRODUCTS:

Skagen Men's Titanium Watch #233XLTTM:http://bestdeallocator.info/index.php?id=B0007X9F7E
Skagen Men's Blue Face Titanium Mesh Bracelet Watch
#233LTTN:http://bestdeallocator.info/index.php?id=B0000C9ZBZ
Tiffen 52mm UV Protection Filter:http://bestdeallocator.info/index.php?id=B00004ZCJG
The World's Fastest Indian:http://bestdeallocator.info/index.php?id=B000F8DBDK

ACCESSORIES:

Invicta Men's Slim Collection Square Black Leather Watch
#5136:http://bestdeallocator.info/index.php?id=B001AQAZGW
Invicta Men's Slim Collection Square Brown Leather Watch
#5132:http://bestdeallocator.info/index.php?id=B001AQCR72
Skagen Men's Two-Tone Mesh Bracelet Watch
#233LGSC:http://bestdeallocator.info/index.php?id=B0000C9ZBQ
Skagen Women's Studio Leather Watch
#380SGLN:http://bestdeallocator.info/index.php?id=B000EX6QXI
SKAGEN TITANIUM ROUND DATE WATCH GRAY NUBUCK STRAP
342XLTLM:http://bestdeallocator.info/index.php?id=B000GDH0O0

3221. Officina del Tempo Men's Tonneau Big Date Watch #OT1018/01AMM

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 10:05:42 UTC
From: Akbari@carmelo.com
Message-ID: <4a15a5fd$0$4897$ec3e2dad@news.usenetmonster.com>
Source record: 15355

Price:$415.00
Image: http://bestdeallocator.info/image.php?id=B000RKT70M
Best deal: http://bestdeallocator.info/index.php?id=B000RKT70M

A twist of modernity with a touch of style. This Officina Del Tempo timepiece will collectively match any suit for a night out in town.
Casual yet refined, this Officina del Tempo Tonneau Men's Big Date Watch transitions nicely from the work week to the weekend. It features a mix of brown Arabic and Roman numerals against a silver dial, luminous hands, a 60-second sub-dial at the six o'clock, and a big date display at the twelve o'clock. The stainless steel cases measures 40 millimeters. The brown pebbled leather strap fastens with a push button fold-over clasp. Powered by an analog quartz movement, this watch is water resistant to 165 feet.

ACCESSORIES:

Officina del Tempo Women's Agadir Watch
#OT1016/01Y:http://bestdeallocator.info/index.php?id=B000RKV6G0
Officina del Tempo Men's Tonneau Big Date Watch
#OT1018/01ABB:http://bestdeallocator.info/index.php?id=B000RKS4MY
Officina del Tempo Men's Agadir Chronograph Watch
#OT1014/01NWS:http://bestdeallocator.info/index.php?id=B000RKS4J2
Officina del Tempo Men's Agadir Watch
#OT1022/01SABB:http://bestdeallocator.info/index.php?id=B000RKS4PQ
Officina del Tempo Women's Safi Watch
#OT1026/01CSWW:http://bestdeallocator.info/index.php?id=B000RKS4S8

3222. Triumph Motorcycles Men's Tiger Collection Chronograph Watch #3025-11

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 10:23:22 UTC
From: Aker@latasha.com
Message-ID: <4a15aa21$0$4897$ec3e2dad@news.usenetmonster.com>
Source record: 15357

Price:$495.00
Image: http://bestdeallocator.info/image.php?id=B001A4B3A6
Best deal: http://bestdeallocator.info/index.php?id=B001A4B3A6

This is a great watch and looks awesome on the wrist. It's not too big like some other square watches, but just the right size. The only warning is do not try to change your own links. I spent an hour attempting to change these and bent all of the pins I removed. I took it to a certified watch repair store and they had it fixed in no time. I normally do all my own adjustments, but these links are tight and the pins are not that strong. Other than that, fantastic watch! Enjoy!
Sleek, stylish and uniquely British. A Triumph Motorcycles watch demonstrates the same high quality and design philosophy that has made their line of motorcycles an international classic. SmartBargains Style #6018380383
Triumph Motorcycles Tiger Chronograph Leather Strap Watch #3025-11 adds a distinctive element to any man's wardrobe. Designed to highlight the simple, classic elegance inherent in all precision-engineered machines, this watch offers a black dial with two subdials, a circular second tracker with subtle white markers, a convenient date window at six o'clock, angular stick indices, and three hands for easy reference. Also featuring a tonneau case and bezel crafted from stainless steel plus a stainless steel bracelet band that is held in place by a deployment clasp, this timepiece offers a pleasant weight and feel to go with its sophisticated styling. This watch is powered by reliable Japanese quartz movement is water resistant to 330 feet.

ACCESSORIES:

Triumph Motorcycles Men's Chronograph Gray Dial Leather Watch #3005-01:http://bestdeallocator.info/index.php?id=B000JQFXCK
Triumph Motorcycles Men's Chronograph Silver Dial Leather Watch #3021-03:http://bestdeallocator.info/index.php?id=B000JQFXE8
Triumph Motorcycles Men's Chronograph Blue Dial Leather Watch #3005-03:http://bestdeallocator.info/index.php?id=B000JQJSV2
Triumph Motorcycles Men's Chronograph Stainless Steel Watch #3006-22:http://bestdeallocator.info/index.php?id=B000JQJSVC
Triumph Motorcycles Men's Chronograph Silver Dial Steel Watch #3013-44:http://bestdeallocator.info/index.php?id=B000JQJSXK

3223. Nuwave 20322 Pro Digital-Controlled Infrared Tabletop Oven, Black

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 11:07:50 UTC
From: Ashalintubbi@camellia.com
Message-ID: <4a15b48c$0$4900$ec3e2dad@news.usenetmonster.com>
Source record: 15361

List Price:$169.99
Image: http://bestdeallocator.info/image.php?id=B000KGTXFW
Best price found: http://bestdeallocator.info/index.php?id=B000KGTXFW

It does what it says - cooks tasty food reliably.
My chief reason for getting it was to lower my energy use. My oven is dandy, but often overkill for just 2 people. This is a fine replacement, and I love being able to start with a frozen game hen, and have a yummy dinner on in less than an hour.
I was hesitant to by the nuwave because I was afraid it will be a new addition to the "never use appliance salvage yard "in once house.
Boy, was I wrong!
I needed this for a replacement for my malfunctioning built-in-oven.The Nuwave bakes cakes in my regular metal springform. You have to experiment with aluminiumfoil-covering to make sure it cooks all the way through the center without getting too dark. It makes the most delicious chicken that can rival the fanciest rotisserie chicken.The machine will hold two 3 pound chicken placed next to each other.Steaks and sausages are to die for.Just be prepared to adjust cooking times. My experience is to almost double the posted Nuwave cooking time. But, if you want quick cooking use the microwave.The most delicious outcome with this oven is the hit. A tip, do not pour water in the metal dripping pan to catch fat drippings (wanted to make even easier clean up) the circulating water vapor will make for a soggy chicken skin. If you do not use the water it will be perfect. I made casseroles and transferred the 9x13 recipie ingredients in two 9x9 glass dishes. Place on 1" rack and the 4" rack above it with the other dish. Rotate after half cooking time. Super casseroles that way.The plastic dome can be wiped clean with a wet cloth on the inside.You do not have to remove the heating element and rinse the plastic dome unless it becomes really dirty. Next will be to teach my kids (11 & 14)to use it since they do not have to handle a hot frying pan and oil splatters.
better than an oven or microwave. Is the best cooking device i have ever used.
I am really disappointed with this oven. I cooked frozen boneless (skinless) chicken breasts. The flavor and texture was not very good (compared to regular oven), especially considering that it didn't save that much time. It is a bulky unit and everything needs to be taken apart and cleaned each time. I don't have to clean inside my regular oven after baking a chicken. My local Fox news channel did a special "Deal or Dud" report about the Nuwave ovens on their broadcast the other evening. They determined to product to be a "dud". Save your money!
I am not familiar with the NuWave oven, but I am familiar with Hearthware by way of another of their products, their coffee roaster. It is a reasonable coffee roaster although not very well constructed for what it costs.

The problem is with their customer service. It took them a month to send me the wrong part. When I called up after a couple of weeks to ask where the part was, they lied to me about when it had been shipped. It had in fact not been shipped at that point. They did agree to send the correct part UPS, but it still took them seven days to ship it.

The owner of the company did not reply to a letter complaining about the customer service. An exchange with a retailer who sells one of their products confirmed that their customer service is routinely atrocious. In spite of this, Hearthware will not allow the extremely efficient retailer to sell their parts. Hearthware won't supply their parts with any efficiency, and they won't let anyone else do it either.

The owner of the company does not seem to care what the customer service is like, and that is a big red warning flag. (Customer service, by the way, refused to give me the name of the owner. It was, of course, easy to find.)

I don't know what the oven is like, but I do know that if you have a problem with it or need a part for it, you are screwed.
The Nuwave® Pro Infrared Oven is designed to produce succulent meats, poultry, and fish. The Nuwave® Pro quickly and easily cooks foods while keeping them moist on the inside, crisp and browned on the outside with out using any fats or oils. The Nuwave® Pro cooks most foods up to 50% faster than a conventional oven, without preheating or defrosting, for the best in flavor and taste. The Nuwave® Pro Infrared Oven works with a patented trio of cooking methods: Conduction to apply heat directly to food, Convection to circulate the heat around the food, and Far Infrared radiant heat to penetrate the food to cook from the inside out, leaving food moist and Flavorful. The Patented Triple Cooking Process of infrared, conduction, and convection enables the following cooking methods: Barbeque, Roast, Air Frie, Broil, Bake, Steam, Dehydrate, and Grill all without preheating or defrosting. The Nuwave® Pro Infrared Oven saves you up to 50% in cooking time and saves up to 85% in Energy compared to a conventional 3500 watt oven. This tabletop infrared oven comes with an extender ring kit which includes a 3 extender ring, a 2 stainless steel cooking rack, and a 10 micro ceramic backing pan. Includes owner's manual, quick & esy cooking guide, recipe book and low-carb diet recipe book. The extender ring allows for cooking of up to a 16lb. turkey. The Nuwave® Pro Infrared Oven comes with a limited 1yr. warranty and the Hearthware Home Products customer service department can be reached at: 1-888-287-0763 or 1-847-566-3009.

SIMILAR PRODUCTS:

Cooking with Convection: Everything You Need to Know to Get the Most from Your Convection Oven:http://bestdeallocator.info/index.php?id=0767915313
The Convection Oven Bible:http://bestdeallocator.info/index.php?id=0778801543
Rockwell RK9000 Jawhorse:http://bestdeallocator.info/index.php?id=B0018MRUN4

ACCESSORIES:

Rival FD350S Stainless Steel Electric
Fondue:http://bestdeallocator.info/index.php?id=B00005UWGZ
Chef's Choice 678 Cordless Electric
Kettle:http://bestdeallocator.info/index.php?id=B000FKV9DM
Nesco 4808-47-30 18-Quart Roaster Oven with Nonstick Cookwell, Millennium
Silver:http://bestdeallocator.info/index.php?id=B0000665TB

3224. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 14:24:16 UTC
From: nm5k@wt.net
Message-ID: <280a28ad-2fbf-4b74-bb2a-907432f45c4e@c7g2000prc.googlegroups.com>
Source record: 15492

On May 19, 12:30 pm, Roy Lewallen <w...@eznec.com> wrote:
> Jeff Liebermann wrote:
>
> > Ok. That's closer than most of the off topic rubbish the pollutes
> > most newsgroups. I can see you logic. After reading some of the
> > postings in this newsgroup, I too might suspect that exposure to RF
> > and antennas might produce insanity, illogic, political conservatism,
> > and delusions of omniscience. . .
>
> The effect seems to peak at about 75 meter wavelength, with a minor peak
> at about 2 meters. The cautious and same amateur will avoid exposure to
> those wavelengths.
>
> Roy Lewallen, W7EL

Some will probably be skeptical, but I've actually felt the effects
of
RF when operating on the HF bands. I forgot what band it was, but
it was one of the lower ones, "80 or 40", and I was working CW from
my mobile. "parked"
It took a QSO or two before I realized the RF was effecting me.
But I noticed I was starting to feel funny. It's hard to describe the
effects. But I noticed I didn't feel quite right, and it was an
uneasy
queasy type of feeling. Then I started to notice that the feeling
would
subside when I quit transmitting and was listening to the other
station.
When I would go back to transmit, I would slowly start to feel weird
again. I then kind of decided it was the RF hitting me from the rear
of the car, through the window. That particular car was a monte carlo,
and the antenna was on the trunk, with the loading coil fairly low.
So a lot of RF was beaming into the back of my head due to the
location of the antenna. I was running the usual 100w.
So anyway, I don't know about any cancer dilemma, but I know
in some cases, it's possible to feel RF on the HF bands.
Or at least I seemed to..
I didn't like the feeling of it at all. Was not a burning or anything,
it made you feel real nervous and uneasy. Pretty weird.. :/

3225. ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 14:28:25 UTC
From: ve2pid <ve2pid@videotron.ca>
Message-ID: <9bec02ac-7e2a-41f8-a95e-9c9fbc686522@r13g2000vbr.googlegroups.com>
Source record: 15493

Hi to all,

Just got my new ATU. The specs mentionned:

Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
3:1)

It sems that this is the standardized (?) way to mention
specifications...

But, since impedances have both a resistive and reactive compoment,
doses it means 6 to 600 Ohms "resistive"?

For example , if Z= 500-J800 ohm, is it 'tunable'? I have a doubt
because the impedance could also mean sqrt(500^2+800^2)=943,4 Ohms..

Thanks de Pierre ve2pid@videotron.ca

3226. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 15:42:23 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <HK-dneDLy4r-64jXnZ2dnUVZ_tli4p2d@posted.easystreetonline>
Source record: 15494

ve2pid wrote:
> Hi to all,
>
> Just got my new ATU. The specs mentionned:
>
> Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
> 3:1)
>
> It sems that this is the standardized (?) way to mention
> specifications...
>
> But, since impedances have both a resistive and reactive compoment,
> doses it means 6 to 600 Ohms "resistive"?
>
> For example , if Z= 500-J800 ohm, is it 'tunable'? I have a doubt
> because the impedance could also mean sqrt(500^2+800^2)=943,4 Ohms..
>
> Thanks de Pierre ve2pid@videotron.ca

Only the manufacturer can tell you what they mean. It would be
interesting to see what they say when you ask.

Roy Lewallen, W7EL

3227. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 16:10:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <H1fRl.10902$im1.4253@nlpi061.nbdc.sbc.com>
Source record: 15495

nm5k@wt.net wrote:
> I didn't like the feeling of it at all.

At Texas A&M in the 50's, we had a radar in the
EE building with the antenna on the roof. Once,
someone was working on the antenna when someone
else turned the radar on. They rushed the guy
on the roof to the hospital in an ambulance. I
don't recall the rest of the story.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3228. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 16:14:03 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <f5fRl.16584$hc1.2892@flpi150.ffdc.sbc.com>
Source record: 15496

ve2pid wrote:
> Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
> 3:1)

I once emailed a tuner company (don't recall which)
and asked them about their specs. They told me that
their ohmic specs were for resistive loads. They
didn't say where one would find an antenna with
a 600+j0 feedpoint impedance - maybe a 4-wire
folded dipole?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3229. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 17:30:36 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <87aa1723-a7bc-494f-9057-4b8ffb5dabbe@o5g2000prh.googlegroups.com>
Source record: 15498

On May 21, 7:28 am, ve2pid <ve2...@videotron.ca> wrote:
> Hi to all,
>
> Just got my new ATU. The specs mentionned:
>
> Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
> 3:1)
>
> It sems that this is the standardized (?) way to mention
> specifications...
>
> But, since impedances have both a resistive and reactive compoment,
> doses it means 6 to 600 Ohms "resistive"?
>
> For example , if Z= 500-J800 ohm, is it 'tunable'? I have a doubt
> because the impedance could also mean sqrt(500^2+800^2)=943,4 Ohms..
>
> Thanks de Pierre ve2...@videotron.ca

It would be good if they plotted the range on something like a Smith chart. It should be done for different frequencies; it's rare indeed for a tuner to be able to match the same range of impedances over its frequency range. Some tuner topologies even have "holes" in their coverage.

Icing on the cake would be some additional lines on the Smith charts showing the expected power loss, perhaps as constant-loss contour lines. Many (most? all?) tuners get pretty lossy at some adjustments.

As far as I know, none of the ham manufacturers do that. I expect it, though, for commercial equipment, and we ought to hold the ham manufacturers' feet to the fire to do something similar.

Cheers,
Tom

3230. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 17:41:19 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1ngRl.22773$as4.8391@nlpi069.nbdc.sbc.com>
Source record: 15499

K7ITM wrote:
> ... we ought to hold the ham
> manufacturers' feet to the fire to do something similar.

I suspect their average amateur radio customer
doesn't understand the meaning of 1000+j1000
much less comprehend graphs on a Smith Chart.

I recently published an article over on eHam.net
that contained a Smith Chart. One of the reactions
was that Smith Charts are obsolete and have been
replaced by software programs that just provide
the answers without all the effort and pain involved
with understanding a Smith Chart.

One doesn't need to know anything about hyperbolic
trig functions any more. Just point and click.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3231. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 18:30:48 UTC
From: wimabctel@tetech.nl
Message-ID: <6507c052-7b11-4848-8d1e-fc84968b0128@z9g2000yqi.googlegroups.com>
Source record: 15351

On 21 mayo, 19:41, Cecil Moore <nos...@w5dxp.com> wrote:
> K7ITM wrote:
> > ... we ought to hold the ham
> > manufacturers' feet to the fire to do something similar.
>
> I suspect their average amateur radio customer
> doesn't understand the meaning of 1000+j1000
> much less comprehend graphs on a Smith Chart.
>
> I recently published an article over on eHam.net
> that contained a Smith Chart. One of the reactions
> was that Smith Charts are obsolete and have been
> replaced by software programs that just provide
> the answers without all the effort and pain involved
> with understanding a Smith Chart.
>
> One doesn't need to know anything about hyperbolic
> trig functions any more. Just point and click.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Hello Cecil,

I was expecting that this only happens in the Netherlands. I have some (modern) software where the default plot method is Schmit Chart...

I agree with the contour plot on a Smith Chart showing losses (and power handling) for Antenna Tuners.

Best regards,

Wim
PA3DJS
www.tetech.nl
forget first three letters of the alphabet in the PM

3232. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 18:43:54 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <uu6b151ecisqbb37ab6orj5h9095remrqe@4ax.com>
Source record: 15352

On Thu, 21 May 2009 07:28:25 -0700 (PDT), ve2pid <ve2pid@videotron.ca>
wrote:

>Hi to all,
>
>Just got my new ATU. The specs mentionned:
>
>Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
>3:1)
>
>It sems that this is the standardized (?) way to mention
>specifications...
>
>But, since impedances have both a resistive and reactive compoment,
>doses it means 6 to 600 Ohms "resistive"?
>
>For example , if Z= 500-J800 ohm, is it 'tunable'? I have a doubt
>because the impedance could also mean sqrt(500^2+800^2)=943,4 Ohms..
>
>Thanks de Pierre ve2pid@videotron.ca

Well, a little Googleing found the missing maker and model number.
It's obviously made by LDG but which product?
<http://www.ldgelectronics.com>
The spec sheets aren't any more useful. I'm also rather suspicious
because ALL their products, regardless of size or technology, have the
same specification.

Well, if all else fails, I guess I have to read one of the manuals:
<http://www.ldgelectronics.com/assets/manuals/Z-817Manual.pdf>
No help in the Theory of Operation section.
The manual has a slightly expanded specification:
"Tunes 6 to 600 ohm loads (16 to 150 on 6M), 24 to 2400 ohms
with optional 4:1 Balun."

My guess(tm) is that they're refering to the vector sum of the complex
impedance, which is what one ends up measuring on a VSWR guess-meter.
Disclaimer: This is only a guess.

As for the proper way to specify antenna tuners, I vaguely recall a
marine band antenna tuner that we sold at Intech in the 1970's. (Not
my project). The matching range was specified as anything that landed
inside a constant VSWR circle on a Smith Chart and was limited to a
conservate 8:1 VSWR range. It also excluded any resonant antennas,
which would automatically fall outside of the 10:1 range. We also
derrated the maximum power handling spec at the 1.6MHz end to avoid

high voltage flash over. I'll dig through my box of old Intech data
sheets and manuals later and see what I can excavate.

Meanwhile, call LDG and ask.
--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3233. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 18:45:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <skjge6-k32.ln1@mail.specsol.com>
Source record: 15353

K7ITM <k7itm@msn.com> wrote:
> On May 21, 7:28 am, ve2pid <ve2...@videotron.ca> wrote:
>> Hi to all,
>>
>> Just got my new ATU. The specs mentionned:
>>
>> Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
>> 3:1)
>>
>> It sems that this is the standardized (?) way to mention
>> specifications...
>>
>> But, since impedances have both a resistive and reactive compoment,
>> doses it means 6 to 600 Ohms "resistive"?
>>
>> For example , if Z= 500-J800 ohm, is it 'tunable'? I have a doubt
>> because the impedance could also mean sqrt(500^2+800^2)=943,4 Ohms..
>>
>> Thanks de Pierre ve2...@videotron.ca
>
> It would be good if they plotted the range on something like a Smith
> chart. It should be done for different frequencies; it's rare indeed
> for a tuner to be able to match the same range of impedances over its
> frequency range. Some tuner topologies even have "holes" in their
> coverage.
>
> Icing on the cake would be some additional lines on the Smith charts
> showing the expected power loss, perhaps as constant-loss contour
> lines. Many (most? all?) tuners get pretty lossy at some
> adjustments.
>
> As far as I know, none of the ham manufacturers do that. I expect it,
> though, for commercial equipment, and we ought to hold the ham
> manufacturers' feet to the fire to do something similar.
>
> Cheers,
> Tom

SGC used to publish the capacitance and inductance range of their
tuners from which you could calculate what it would do at a specific
frequency.

I haven't looked in a long time so I don't know if it is still there.

--
Jim Pennino

Remove .spam.sux to reply.

3234. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 19:17:05 UTC
From: JB <nospam@goofball.net>
Message-ID: <RMhRl.2711$5F2.2384@nwrddc01.gnilink.net>
Source record: 15356

>...; it's rare indeed
for a tuner to be able to match the same range of impedances over its frequency range. Some tuner topologies even have "holes" in their coverage.

This is why it is so pointless to specify the resistive SWR range. It is really only an indication. If your antenna system winds up with an impossible match at some frequency, you need to try something different anyway or suffer loss or damage. Hope the autotuner algorithm knows how to deal with that.

There was a QST test review years ago that compared several popular tuners. Old and new.

3235. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 19:30:00 UTC
From: JB <nospam@goofball.net>
Message-ID: <YYhRl.2714$5F2.2190@nwrddc01.gnilink.net>
Source record: 15358

As a radio amateur I must be lucky if my neighbours don't
> claim headaches and nervous irritation the day after
> I put up my new antenna.
> Better keep oneself in good shape regarding the arguments.
>
>

For real!!

It's jokes like these that catch the attention of superstitious tree huggers and vegans who wind up protesting by throwing themselves under the bus in order to promote new legislation.

After more than 30 years as an avid Ham and professional radio tech, NO ONE I know of in the business or Hams, have suffered from cancer outside of the occasional Squamous cell skin problems from too much Solar exposure on building roofs and towers.

3236. Can the moderator stop these commercial announcements?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 19:52:13 UTC
From: Wilder Scott <wilderscott@charter.net>
Message-ID: <ThiRl.63661$bi7.5994@newsfe07.iad>
Source record: 15359

Could the moderator be kind enough to stop these commercial announcements being placed on here which
have nothing to do with Amateur Radio? They are being posted constantly.
Many thanks in advance!

W. P. Scott, W4NW
Athens, GA USA 30605
email: wilderscott@charter.net

3237. Re: Can the moderator stop these commercial announcements?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 19:58:56 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9C1298683B2BAVeebleFetzer@216.250.184.7>
Source record: 15360

In news:ThiRl.63661$bi7.5994@newsfe07.iad "Wilder Scott"
<wilderscott@charter.net> wrote:

> Could the moderator ...

This isn't a moderated newsgroup.

--
Bert Hyman St. Paul, MN bert@iphouse.com

3238. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 22:44:09 UTC
From: K7ITM <k7itm@msn.com>
Message-ID: <9c4de8df-cc6e-4e7e-86f1-142ce27c8c46@g3g2000pra.googlegroups.com>
Source record: 15362

On May 21, 11:30 am, wimabc...@tetech.nl wrote:
...
> I was expecting that this only happens in the Netherlands. I have
> some (modern) software where the default plot method is Schmit
> Chart...
>
> I agree with the contour plot on a Smith Chart showing losses (and
> power handling) for Antenna Tuners.
>
> Best regards,
>
> Wim
> PA3DJSwww.tetech.nl
> forget first three letters of the alphabet in the PM

Since the points plotted on a Smith chart are simply complex
reflection coefficient plotted on a linear grid, it would be fine with
me if they'd just plot the range of complex reflection coefficient
over which the tuner will operate (perhaps plus contours of constant
loss and power handling ability). The graphs would look identically
the same, except for the grid. I don't suppose any more hams
understand complex reflection coefficient than understand Smith
charts, though.

The Smith chart, to me, remains a very valuable _visualization_ tool.
It matters not how the points on it were calculated or measured. I
think it will always be the case that information properly presented
graphically will generally be easier to understand and easier to draw
conclusions from than information presented in text in tabular form.
Some graphical tools, such as the Smith chart, are worth getting to
know, even if you don't use the chart itself to do calculations,
deferring instead to other calculators for that part. Pictures,
often, are worth much more than 1000 words.

Cheers,
Tom

3239. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-21 23:21:57 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <PilRl.7461$Lr6.6747@flpi143.ffdc.sbc.com>
Source record: 15363

K7ITM wrote:
> The Smith chart, to me, remains a very valuable _visualization_ tool.

Here's a recent posting of mine from eHam.net:

>> someone wrote: There are very few people out there that
use the Smith Chart.

I'm not suggesting that they actually use a Smith Chart - just that they learn how to use one and keep the Smith Chart in their heads as a conceptual tool. With a conceptual image of a Smith Chart in their heads, they not only know what the input and output impedances are but also the path the impedance took to get from one point to another. Did the SWR spiral cross the 50 ohm circle or the 1/50 mho circle during its transition? If so, matching to 50 ohms is a one component piece of cake.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3240. Hitachi 725131 1-1/8-Inch Hex 1-Inch x 15-Inch Ground Rod Driver

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 01:14:31 UTC
From: Ashurst@assunta.com
Message-ID: <4a167af3$0$4905$ec3e2dad@news.usenetmonster.com>
Source record: 15374

Price:$95.22
Image: http://thediscounfinder.info/image.php?id=B0002VM25I
Best deal: http://thediscounfinder.info/index.php?id=B0002VM25I

I'm not rating the item, I'm rating the add. I thought I understood what I was buying but I think it needs to say which model tool it fits. I needed it for an H65 Hatachi. Discription sure didn't tell me enough. I'm still looking for that driver. Should not buy without a part number.
only thing i would like better is a slightly longer cup but beside that just what i expected. not much more i need to say.
1-1/8HEX GROUND ROD DRIVER 1"

SIMILAR PRODUCTS:

Hitachi 985233 1-1/8-Inch Hex 5 1/2-Inch x 20-Inch Hammer Clay Spade:http://thediscounfinder.info/index.php?id=B0002VM2DA

ACCESSORIES:

This Old House:http://thediscounfinder.info/index.php?id=B000ILXPTO
Black & Decker Complete Home Repair (Black & Decker Complete Photo Guide):http://thediscounfinder.info/index.php?id=1589233557

3241. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 02:08:35 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gv51f3$s418$1@tr22n12.aset.psu.edu>
Source record: 15364

nm5k@wt.net wrote:

> Some will probably be skeptical, but I've actually felt the effects
> of RF when operating on the HF bands. I forgot what band it was, but
> it was one of the lower ones, "80 or 40", and I was working CW from
> my mobile. "parked"
> It took a QSO or two before I realized the RF was effecting me.

I believe you. I have felt the effects of using a cell phone for an extended time. A warmth sensation. And not the batteries.

What I see as the problem with the whole situation is that there is a whole spectrum of effects that are tested for. Most are found to be lacking in evidence. The likelihood of say cell phones as a cause of cancer is quite low.

In addition, a lot of people who think that RF exposure is terribly bad are naught but kooks.

But those are not reasons to dismiss any and all effects as nonexistent.

I personally suspect that excessive near field RF exposure at cell phone frequencies makes people stupid. I used to think it was temporary, but there has to be a reason for driving while text messaging.

- 73 de Mike N3LI -

3242. Re: Maximum Antenna Height on a Vehicle

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 02:18:38 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gv521u$s41a$1@tr22n12.aset.psu.edu>
Source record: 15365

My bugcatcher is way taller than the interstate limit.

I tie it off at the top, and have a knotted string that I can pull and hook onto the coat hook inside the car. I let go of it when I stop, and pull down to drive. Oddly enough it seems to work well enough while pulled down too.

- 73 de Mike N3LI -

3243. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 02:29:24 UTC
From: Al Lorona <al_lorona@agilent.com>
Message-ID: <i6oRl.29699$yr3.13227@nlpi068.nbdc.sbc.com>
Source record: 15366

> Jeff Liebermann wrote:
> Was not a burning or anything,
> it made you feel real nervous and uneasy. Pretty weird.. :/

Probably if I hadn't had the following experience, I would think you were kinda loony, Jeff. But I know exactly what you describe.

Several times in my 4th semester in college a good friend and myself would ditch English class and drive up to Mt. Wilson, the mountain peak above Los Angeles where almost all of its radio and TV antenna installations are.

There have to be several megawatts of VHF and UHF ERP up there.

Each time we made the trek in his Pinto station wagon, almost as soon as we rounded the final bend at the top, I would start to feel nauseous. I couldn't stay up there for more than a few minutes, and for several hours afterward I would have what I came to call an 'RF headache'-- a dull, debilitating haze that affected my focus and appetite. I don't know how anyone who has to work up there does it, having to live in that environment.

Al W6LX

3244. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 02:31:13 UTC
From: Mike Luther <mike.luther@ziplog.com>
Message-ID: <4a160e6c$0$23753$bbae4d71@news.suddenlink.net>
Source record: 15367

It is likely a bit more complicated than this..

MacaualyFlower wrote:

> I know that there is some concern that cell phones may cause cancer.
> But is there any possible correlation between the radio waves we use
> to communicate, either by commercial radio or other sources and
> cancer? Or what about the radio waves that are being emitted from our
> personal electronic appliances? I have heard that there is some
> concern that if you live near a power line that you may be at risk for
> cancer. What is the state of research into this subject?
>
> Thanks

From what I understand, there is a pretty solid set of data now collected that extended use of cell phones actually does cause high frequency hearing loss! That from the effects of the RF on the little hairs and the sensors they drive which let the human hear sounds. I've seen comments that there is now a pretty much 100% proof that this does happen. Which does make a bit more practical sense for I suspect most of us here. In the case of cell phone (or equivalent RF use, such as Blackberry or wireless headset stuff), I think most folks here could suspect that the VHF frequencies involved would make a lot more practical sense for this thought than HF and so on...

Of course more than 20 minutes a day of greater than 85DB over room reference quiet level of any audio sounds, especially the BOOM, BOOM, BOOM of base in songs and such, also produces permanent hearing loss for the person involved over time. And with what also goes on in the automobile use for people seems to include boom box issues as well as cell phone issues for many folks. So one would also wonder to what extent either of these two motivators for hearing loss might conflict with research work into such things.

W5WQN

--

--> Sleep well; OS2's still awake! ;)

Mike Luther

3245. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 04:18:17 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <a48c1515saugmgb9rm3erqhukuk4p5ag00@4ax.com>
Source record: 15368

On Thu, 21 May 2009 19:29:24 -0700, "Al Lorona"
<al_lorona@agilent.com> wrote:

>> Jeff Liebermann wrote:
>> Was not a burning or anything,
>> it made you feel real nervous and uneasy. Pretty weird.. :/
>
>Probably if I hadn't had the following experience, I would think you were
>kinda loony, Jeff. But I know exactly what you describe.

Please watch the attributions. I didn't write that quote.

>Several times in my 4th semester in college a good friend and myself would
>ditch English class and drive up to Mt. Wilson, the mountain peak above Los
>Angeles where almost all of its radio and TV antenna installations are.

I spent quite a bit of time up at Mt Wilson in the late 1960's. I
certainly had RF effects, but the causes were obvious. My teeth would
hurt. What was happening was the metal in the fillings was getting
slightly warm. The lousy job the original dentist did left a gap
under the filling, which was full of air, bacteria, crud, whatever.
Heat up the fillings, and the air tries to expand. If it hits the
nerve, my teeth would hurt. This went on for several years until I
had some removed and replaced with the unleaded variety.

I also have a small stainless plate where my skull was fractured while
I was trying to play gang member (at age 14). I eventually outgrew
the plate and had it replaced with a plastic and fake bone version.
The RF induced pains magically went away.

>There have to be several megawatts of VHF and UHF ERP up there.

Most of it goes over your head as the antenna patterns are towards the
horizon, not under the towers. Even so, there's still quite a bit
floating around.

I didn't worry much about the RF. It was the falling blocks of ice
when the TV station xmitter baby sitter didn't bother turning on the
de-icer until the VSWR climbed. By then, there was quite a bit of ice
on the antennas. Nothing like big ice blocks falling from 500ft to
ruin my evening. Most went right threw the corregated steel roof on
the commercial radio buildings that sat under the towers. The blocks
didn't do much damage to the radios, which were in racks and boxes.
However, it did a great job of peeling off all the coax cables and
control wires.

>Each time we made the trek in his Pinto station wagon, almost as soon as we
>rounded the final bend at the top, I would start to feel nauseous.

Probably the fumes from the Pinto. In college, I worked part time for
a local Ford dealer fixing electrical systems in mostly Pintos and
Mavericks. I'd say you were lucky to have made it up the hill.

>I
>couldn't stay up there for more than a few minutes, and for several hours
>afterward I would have what I came to call an 'RF headache'-- a dull,
>debilitating haze that affected my focus and appetite. I don't know how
>anyone who has to work up there does it, having to live in that environment.

Probably different people have different sensitivity levels. I spent
about 8 days up there helping with a messy install. I never felt
anything exept some altitude sickness (at 5700ft) which affected my
sleep. However, that was in the 1960's, where there were far fewer
xmitters on Mt Wilson. These days, you could probably heat your lunch
by simply waving it in the air.

>Al W6LX
>

3246. botkier Women's Zoe Pump

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 05:01:13 UTC
From: Anagnost@shawnda.com
Message-ID: <4a16b015$0$4919$ec3e2dad@news.usenetmonster.com>
Source record: 15377

Price:$424.95
Image: http://thediscountlocator.info/image.php?id=B001CMJWIG
Best deal: http://thediscountlocator.info/index.php?id=B001CMJWIG

As soon I got this shoes I fall in LOVE whith>I think thhis shoes are so true to size and very comfyyyy!
A soft ruffle at the vamp adds femininity to this gorgeous leather pump from Botkier. The Zoe pump will raise you to new fashion heights with its platform design and tall chunky covered heel. Wear it with skirts, jeans, or anything you like, and expect plenty of admiring glances.

SIMILAR PRODUCTS:

Alternative Women's Debbie Flutter
Tee:http://thediscountlocator.info/index.php?id=B0014K4N9Y

ACCESSORIES:

botkier night fall hobo:http://thediscountlocator.info/index.php?id=B00150ULEE
botkier sasha large duffle:http://thediscountlocator.info/index.php?id=B00150Z6AI
botkier zoe clutch:http://thediscountlocator.info/index.php?id=B00150OYHY
botkier Sasha Card Case:http://thediscountlocator.info/index.php?id=B001AAXB82
botkier frankie large satchel:http://thediscountlocator.info/index.php?id=B00150Z2ZC

3247. Birkenstock Pisa Sandal

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 05:05:39 UTC
From: Arbogast@ken.com
Message-ID: <4a16b11f$0$4919$ec3e2dad@news.usenetmonster.com>
Source record: 15378

Price:$121.99
Image: http://speialdiscountfinder.info/image.php?id=B0010TAFVE
Best deal: http://speialdiscountfinder.info/index.php?id=B0010TAFVE

These sandles are a little nicer in appearance so I can wear them to work but still give me the comfort I desire. Love them.
Can't beat the price I paid on authentic birkenstock. Loved the free shipping too! Received very quickly and extremely happy with my purchase!
I love these sandals. As with all Birkenstocks, they conform to your foot resulting in great support and amazing comfort. I also really like the design - in my experience, Birkenstocks look really bulky but this design makes that bulk seem a little more feminine.
Was a little unsure of getting non-Arizona Birks (i've previously had 4 pair), but i love these! They are a little dressier than Arizona, maybe for a dressier and more mature me (lol). And the new, soft footbed is lovely.
These sandals are comfortable! The suede strapping is soft and looks to be very durable. My feet don't "slip" around in them. A good fit. Nice arch support also. They don't have half sizes, so go up one full size if needed.
Slide these gorgeously crafted Pisa sandals on for a day of sublime relaxing comfort. Soft suede upper in a casual outdoor slide sandal style with a round open toe. A wide asymmetrical interlacing suede vamp and wrapped 1 inch cork midsole shows off pretty peep detail. An adjustable buckle instep strap secures fit. Leather lining and cushioning suede topped cork and latex foam footbed with a deep heel cup and raised toe bar. EVA traction outsole. 1 inch heel.
Stay carefree and comfortable with the Pisa sandal by Birkenstock. Silky suede straps and an open toe create a breezy, laid-back style that pairs perfectly with warm-weather casuals. The Pisa also features the designer's classic cork footbed with a shock-absorbing EVA sole that cushions every step and a flexible outsole for traction and stability. An adjustable strap at the top of the foot provides a custom and secure fit.
Stay carefree and comfortable with the Pisa sandal by Birkenstock. A uniquely cut upper is balanced on the iconic and comfortable, suede-lined footbed.

SIMILAR PRODUCTS:

Birkenstock Gizeh Jewelry Oiled
Sandal:http://speialdiscountfinder.info/index.php?id=B0010TAOHO
Birkenstock Palermo Sandal:http://speialdiscountfinder.info/index.php?id=B0010TAIW0
Birkenstock Arizona Sandal:http://speialdiscountfinder.info/index.php?id=B000PU52FS
Birkenstock Arizona Soft Footbed
Sandal:http://speialdiscountfinder.info/index.php?id=B000OCSJN4
Birkenstock Dorian Retro Paris:http://speialdiscountfinder.info/index.php?id=B001BSLPCW

3248. Re: Can the moderator stop these commercial announcements?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 07:46:10 UTC
From: Ed Cregger <ecregger@bellsouff.net>
Message-ID: <BAsRl.45600$19.43404@bignews2.bellsouth.net>
Source record: 15370

Chances are good that Wilder isn't reading this via the newsgroup and
probably has no idea what a newsgroup is.

Ed, AJ4PJ

"Bert Hyman" <bert@iphouse.com> wrote in message
news:Xns9C1298683B2BAVeebleFetzer@216.250.184.7...
> In news:ThiRl.63661$bi7.5994@newsfe07.iad "Wilder Scott"
> <wilderscott@charter.net> wrote:
>
>> Could the moderator ...
>
> This isn't a moderated newsgroup.
>
> --
> Bert Hyman St. Paul, MN bert@iphouse.com

3249. Stanley 45-013 Folding Square

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 09:17:06 UTC
From: Arnst@clarine.com
Message-ID: <4a164358$0$4897$ec3e2dad@news.usenetmonster.com>
Source record: 15369

Price:$34.99
Image: http://thediscountdatabase.info/image.php?id=B000051WTH
Best deal: http://thediscountdatabase.info/index.php?id=B000051WTH

I tried using the square for laying out tile. The square was set in place and a laser layed against it to project a layout line the length of the room. When I got different lines on different tries - over an 1" variation over 12' - I investigated. The problem is the hypotenuse of the triangle is in two pieces to accomodate folding. The locking mechanism allows some flex - and it doesn't take much to throw a projected line off.

I sucked it up and spent the $$$ on the Hansen. It's arms are all single pieces and they lock tightly. It doesn't fold up as small but it was dead on.
I do a lot of volunteering for Habitat and when I first pulled out this tool, they all laughed. I used it to check the interior walls .. and especially the ones in the kitchen and baths. It is just the right size for those locations and much more acurate than a framing square. The volunteers who put in the countertops worshipped at my feet when for the first time in the affiliate's history, they did not have to hack and cut the countertops to get them to fit!
Fits nicely in my Empire level case.
this layout tool works well and folds to a 4 foot long bar that takes up little space. From time to time I have always needed a longer square, for floors, adding a deck and other projects. This is a nice tool for all of that and more.
Very handy for exact right angle work in shower construction, tile, cabinets, etc. Nice folding action for storage.
4' x 4', Aluminum Folding Square, 90 & 45 Degree Angles For Versatility Of Job Applications, For Use In Tiling Floors & Patios, Cabinetry & General Layout, Durable Yet Lightweight Aluminum Construction, Easy To Fold & Store, Hang Hole For Easy Storage.
The Stanley Folding Square is a compact tool that provides 90-degree and 45-degree angles for a wide range of job applications. This tool unfold to a complete isosceles triangle, making it perfect for tiling floors and patios, cabinetry and general layout. Built with durable yet lightweight aluminum construction, this tool won't rust, is easy to fold and includes a hang hole for easy storage. This product measures 4- by 4-inches and is backed by a limited lifetime warranty.

SIMILAR PRODUCTS:

FastCap Accuscribe Scribing Tool:http://thediscountdatabase.info/index.php?id=B0001GUDT6
CH Hanson 34512 A-Square 3 x 4 x 5 Folding Layout Triangle
Package:http://thediscountdatabase.info/index.php?id=B00004TKDP
Bench Dog 10-016 Trim-Loc Casement Trim Installation
Tool:http://thediscountdatabase.info/index.php?id=B0000AV36Q
Cepco Tool BW-2 BoWrench Decking
Tool:http://thediscountdatabase.info/index.php?id=B0000224UP
TileRight TR0002 Measure Right Pro 30-Inch Masonry Layout Gauge and
Template:http://thediscountdatabase.info/index.php?id=B00005RJAU

ACCESSORIES:

Measuring, Marking, and Layout: A Builder's
Guide:http://thediscountdatabase.info/index.php?id=1561583359
Old House Journal:http://thediscountdatabase.info/index.php?id=B000CQNKB8
Bigg Lugg Power Tool Holder Belt
Hook:http://thediscountdatabase.info/index.php?id=B0000224SD

3250. Re: Can the moderator stop these commercial announcements?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 09:38:41 UTC
From: Dave <noone@nowhere.com>
Message-ID: <BouRl.2831$5F2.2@nwrddc01.gnilink.net>
Source record: 15373

```
"Ed Cregger" <ecregger@bellsouff.net> wrote in message
news:BAsRl.45600$19.43404@bignews2.bellsouth.net...
> Chances are good that Wilder isn't reading this via the newsgroup and
> probably has no idea what a newsgroup is.
>
> Ed, AJ4PJ
>
> "Bert Hyman" <bert@iphouse.com> wrote in message
> news:Xns9C1298683B2BAVeebleFetzer@216.250.184.7...
>> In news:ThiRl.63661$bi7.5994@newsfe07.iad "Wilder Scott"
>> <wilderscott@charter.net> wrote:
>>
>>> Could the moderator ...
>>
>> This isn't a moderated newsgroup.
>>
>> --
>> Bert Hyman St. Paul, MN bert@iphouse.com
>
>
don't worry, once they spam every article in their catalog they'll stop...
those posts make more sense than some of the stuff on this group anyway, at
least they are real world instead of imaginary.
```

3251. CLOSEOUT! Pro-Grade Laser Cross Level with Tripod

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 11:09:10 UTC
From: Apostal@idalia.com
Message-ID: <4a165d92$0$4905$ec3e2dad@news.usenetmonster.com>
Source record: 15371

Price:$34.99
Image: http://supeddiscountfinder.info/image.php?id=B000O8TTFU
Best deal: http://supeddiscountfinder.info/index.php?id=B000O8TTFU

If you are looing for a high quality torpedo laser - look elsewhere. This "level" is barely level, looks like it was poorly handmade and the laser is barely accurate - with a 3/8" beam split at 30 feet. I eBayed mine off - you are advised to do the same should you have found my review *after* you made a purchase commitment.
*Laser sets accurate cross-beam--accurate to 1/4" at 100'*Heavy-duty brass-anodized aircraft-aluminum construction*3 unbreakable level vials for vertical, horizontal, 45-degree accuracy*Tripod has 360-horizontal and 270-vertical rotation, provides stable measuring platform*Shock and water-resistant; 2 AAA batteries power for months (included)An essential, professional-quality tool to help make sure all your projects are true--updated with FDA-approved Laser technology.

SIMILAR PRODUCTS:

Strait-Line 6041101CD LL120 3/16-Inch at 20-Feet Manual Level Interior Line Laser:http://supeddiscountfinder.info/index.php?id=B0002VM7N0
Stainless Steel 6" Digital Caliper with Extra Large LCD Screen - Instant SAE-Metric Conversion:http://supeddiscountfinder.info/index.php?id=B000GSLKIW
Strait-Line 6041300CD Intersect 1/8-Inch at 15-Feet Self Leveling Crossed Line Laser:http://supeddiscountfinder.info/index.php?id=B0002VM7NA

3252. Brooks Maintenance Kit

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 12:19:41 UTC
From: Allocco@chas.com
Message-ID: <4a166e19$0$4905$ec3e2dad@news.usenetmonster.com>
Source record: 15372

Price:$19.99
Image: http://speialdiscountfinder.info/image.php?id=B0012Q81AM
Best deal: http://speialdiscountfinder.info/index.php?id=B0012Q81AM

Keep your Brooks saddle in tip top shape. This kit includes a small proofide tin, cleaning clothe, and tension wrench.

SIMILAR PRODUCTS:

Brooks B17 Special ATB/Trekking Bicycle
Saddle:http://speialdiscountfinder.info/index.php?id=B000HZDMEY
Brooks B17 Standard ATB/Trekking Bicycle
Saddle:http://speialdiscountfinder.info/index.php?id=B000HZDMFS
Brooks Swift Chrome Saddle:http://speialdiscountfinder.info/index.php?id=B001A642CU
Brooks B17 Saddle:http://speialdiscountfinder.info/index.php?id=B0009SCMCW
Brooks B17 Narrow ATB/Trekking Bicycle
Saddle:http://speialdiscountfinder.info/index.php?id=B000VXXSIM

3253. Jeff is still having trouble posting to this NG using AIOE

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 12:45:33 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <ooiKZCJt5pFKFwMJ@g3ohx.demon.co.uk>
Source record: 15375

This particular NG seems to being blocked for some users using AIOE.
This is just a test to see if my post appears. [Normally, I use Demon'
news server, which has no problems].
--
Ian

3254. Re: Jeff is still having trouble posting to this NG using AIOE

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 12:48:41 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <kojJJmJp8pFKFwtP@g3ohx.demon.co.uk>
Source record: 15376

In message <ooiKZCJt5pFKFwMJ@g3ohx.demon.co.uk>, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> writes
>This particular NG seems to being blocked for some users using AIOE.
>This is just a test to see if my post appears. [Normally, I use Demon'
>news server, which has no problems].

Well, that seemed to work OK. Back to Demon.
--
Ian

3255. New Regulations for Amateur Radiocommunications in Portugal.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 14:47:51 UTC
From: CT1FBF <ct1fbf@sapo.pt>
Message-ID: <716e9f05-3eb5-4457-b375-1a6e959239e0@b1g2000vbc.googlegroups.com>
Source record: 15379

The approval was given by ICP-ANACOM to the procedures governing the amateur and amateur satellite services, as set out by Decree Law n.º 53/2009, March the 2nd, relative to Regulations for Amateur Radiocommunications in Portugal (ruling from June the 1st, 2009 on).

While establishing a communication, the amateur must observe the following procedures:

a) Identifying the station's call sign (CS) in the beginning and also at the end of any call (transmission);

b) When using a transceiver from a non-proprietary station, the amateur must identify the signal according to a), using the operated station's call sign, followed by his own station's call sign;

c) If the station in use is a mobile one, the amateur must identify the transmission with the station's call sign, followed by the word "mobile", right after, and point the present location of the station under operation.
In alternative to the word "mobile" the symbols "/M" can be used in addition to the station's call sign.

d) If the station is a portable one, the amateur must identify the transmission with the station's call sign, followed by the word "portable", right after, and point the present location of the station under operation.
In alternative to the word "portable" the symbols "/P" can be used in addition to the station's call sign.

Anytime a foreign amateur establish communications within the Portuguese territory under a "CEPT" license, the original station's call sign must be preceded by the prefix:

a) "CT7" if the operated station is located anywhere inside mainland PORTUGAL borders;

b) "CT8" if the operated station is located in one of the AZORES archipelago Islands;

c) "CT9" if the operated station is located in one of the MADEIRA archipelago Islands.

Anytime a foreign amateur establish communications within the Portuguese territory under a "CEPT novice" license, the original station's call sign must be preceded by the prefix:

a) "CS7" if the operated station is located anywhere inside mainland PORTUGAL borders;

b) "CS8" if the operated station is located in one of the AZORES
archipelago Islands;

c) "CS9" if the operated station is located in one of the MADEIRA
archipelago Islands.

73's
CT1ETL - Miguel

3256. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 16:17:22 UTC
From: JB <nospam@goofball.net>
Message-ID: <meARl.21$Cc1.1@nwrddc01.gnilink.net>
Source record: 15380

"Mike Coslo" <mjc5@psu.edu> wrote in message
news:gv51f3$s418$1@tr22n12.aset.psu.edu...
> nm5k@wt.net wrote:
>
> > Some will probably be skeptical, but I've actually felt the effects
> > of RF when operating on the HF bands. I forgot what band it was, but
> > it was one of the lower ones, "80 or 40", and I was working CW from
> > my mobile. "parked"
> > It took a QSO or two before I realized the RF was effecting me.
>
> I believe you. I have felt the effects of using a cell phone for an
> extended time. A warmth sensation. And not the batteries.
>
There is no question that at some level, tissue heating is noticeable, and I can attest that RF burns tissue at higher levels. When working in the near field of antenna farms this helps you to determine where you should linger and where you shouldn't. Some people linger in the sun too long. Some people are more sensitive to tissue heating than others. Still, after working in the near field of 900 paging antennas with ERPs of 1 to 10 kw, along with numerous other antennas it is hard for me to imagine that a 300 mw cell phone could even be sensed, let alone cause damage. I have seen people who actually complain of RF symptoms with the power off, even in anguish as if in pain or being tortured, conviced that they were being exposed, while thinking nothing of it when they actually were. It would seem to me that a great many people are highly suggestable as evidenced by the changes in our society to conform to media demoralization. There is even commercials for HULU that makes great light of this. Yuri Bezmenov, who defected from the KGB in the 70s warned us about their constant and unrelenting demoralizion techniques to render whole societies unable to come to rational decisions even when confronted with the obvious. He joked that they could tell you the sky was Black so often, that even when they showed you it was really Blue, you wouldn't believe it.

Someone mentioned hearing loss. This is an issue I have noticed, but not from RF but from high frequency noise. Many people didn't like CDs because they didn't sound right, and Solid State amplifiers when transitioning from Tube types. Now with some DSP implementations. I noticed this right away with a certain radio that didn't sound bad but was completely irritating and fatiguing to listen to for more than a few minutes until I started using an external speaker with a tailored response. Subsequent to that episode I experienced an overnight hearing loss in one ear of all frequencies over about 1500 Hz in that ear along with a peak at that frequency that is quite tender. It is a known fact that CW ops who use headphones are more prone to hearing loss, so I would really like to see more research and solutions

there.

3257. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 16:18:41 UTC
From: richardharrison@webtv.net
Message-ID: <16164-4A16D061-2237@storefull-3171.bay.webtv.net>
Source record: 15381

Cecil, W5DXP wrote:
"They rushed the guy on the toof to the hospital in an ambulance."

I`ve always thought the only effect if RF on humans to be heat and burns from my personal experience of extreme exposure throughout my long life. I`ve spent years with a megawatt all around me. Recently i`ve read the defense department has a nonlethal highpower pulsed micrlwave weapon which incapacitates anyone in its beam. It is also said the military has little interest in nonlethal weapons.

Best regards, Richard Harrison, KB5WZI

3258. Re: New Regulations for Amateur Radiocommunications in Portugal.

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 16:37:53 UTC
From: richardharrison@webtv.net
Message-ID: <16165-4A16D4E1-943@storefull-3171.bay.webtv.net>
Source record: 15382

Miguel, CT1FBF wrote:
"While establishing a communication, the amateur must observe the
followibg procedures:"

Sounds a little like the Salazar days. Bom. Salazar kept bombas afora
das ruas.

Best regards, Richard Harrison, KB5WZI

3259. Re: Can the moderator stop these commercial announcements?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 17:24:21 UTC
From: You <you@shadow.orgs>
Message-ID: <you-9445CE.09235922052009@unknown.usenetserver.com>
Source record: 15383

In article <ThiRl.63661$bi7.5994@newsfe07.iad>,
"Wilder Scott" <wilderscott@charter.net> wrote:

> Could the moderator be kind enough to stop these commercial announcements
> being placed on here which
> have nothing to do with Amateur Radio? They are being posted constantly.
> Many thanks in advance!
>
> W. P. Scott, W4NW
> Athens, GA USA 30605
> email: wilderscott@charter.net

Would be "Nice" if some folks would actually LEARN about the technology
that they use......

3260. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 17:36:48 UTC
From: Bruce in alaska <fast@btpost.net>
Message-ID: <fast-6AE217.09364822052009@unknown.usenetserver.com>
Source record: 15384

In article <H1fRl.10902$im1.4253@nlpi061.nbdc.sbc.com>,
Cecil Moore <nospam@w5dxp.com> wrote:

> nm5k@wt.net wrote:
> > I didn't like the feeling of it at all.
>
> At Texas A&M in the 50's, we had a radar in the
> EE building with the antenna on the roof. Once,
> someone was working on the antenna when someone
> else turned the radar on. They rushed the guy
> on the roof to the hospital in an ambulance. I
> don't recall the rest of the story.

This would all depend on the type of Radar, and it's specific
Transmitting Characteristics. Some military radars of that era
were in the Megawatt Peak Pulse Power range, and these "could" have
Biological Issues in the near field. Very few radars of that era,
were CW, Frequency Agile, or Spread Spectrum Radars, with High Power
CW outputs.

Much more likely, would be the Antenna, smacked the guy, physically,
and, or knocked him off the ladder, he may have been standing on,
when it started turning, unexpectedly.... This type of injury is
still very common, even on commercial Marine and Aircraft Search Radars,
that don't have the Peak Pulse Power Levels, even at the Antenna Radiator
Surface, to cause Biological Heating Issues.

Bruce in alaska

--
Bruce in alaska
add <path> after <fast> to reply

3261. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 19:39:48 UTC
From: Bert Hyman <bert@iphouse.com>
Message-ID: <Xns9C1394EFFF7CDVeebleFetzer@216.250.184.7>
Source record: 15385

In
news:eac83182-542b-4a56-9ad4-630cf61104dd@w35g2000prg.googlegroups.com
MacaualyFlower <macaulay.flower@hotmail.com> wrote:

> But is there any possible correlation between the radio waves we use
> to communicate, either by commercial radio or other sources and
> cancer?

The correlation is 1.

There are radio waves and there is cancer.

Correlation does not imply causality.

--
Bert Hyman St. Paul, MN bert@iphouse.com

3262. Re: Can the moderator stop these commercial announcements?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-22 19:59:52 UTC
From: Rick <ricknj10@hotmail.com>
Message-ID: <YuDRl.55$9L2.45@nwrddc02.gnilink.net>
Source record: 15386

It is being addressed. Most likely will be eliminated completely soon, if
it hasn't already.
I got an email from a very responsible usenet administrator who is
eliminating accounts that are
doing it.

Rick

3263. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 00:01:10 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <61HRl.42752$0S.19615@newsfe22.iad>
Source record: 15387

"Richard Harrison" <richardharrison@webtv.net> wrote in message
news:16164-4A16D061-2237@storefull-3171.bay.webtv.net...
> I`ve always thought the only effect if RF on humans to be heat
> and burns from my personal experience of extreme exposure
> throughout my long life. I`ve spent years with a megawatt all
> around me. Recently i`ve read the defense department has a
> nonlethal highpower pulsed micrlwave weapon which incapacitates
> anyone in its beam. It is also said the military has little
> interest in nonlethal weapons.

The ONLY effect that radio frequencies can do to humans is thermal.
You have to increase the frequencies to the upper visible region
(blue since we are talking frequency rather than wavelength) before
there is any ionizing radiation. Note, however, that thermal effects
can be damaging.

I have two books on industrial applications of microwaves that describe where the early Litton devices were first used in restaurants (but the books are in Tennessee and I am in SC so I cannot provide references). It was found that at many restaurants, the doors were taken off the units and the ovens were operated continuously. Litton soon provided interlocks on the doors! People would place food into the cavity without turning off the microwaves. Other than a few thermal burns, no one was seriously hurt by the ovens – with one exception. In fact, I would be quite willing to place a hand into an operating home microwave oven for several seconds at a time. With reasonable blood flow, the thermal energy is quickly spread out to the rest of the body. But the exception is quite serious. The cornea and lens of the eye have essentially no blood flow, so any heat generated there builds up. This can produce cataracts. The effect was seen among many early experimenters with microwaves and many members of the military. working with high power radars. So while the new weapon Richard talks about is non-lethal, it can easily cause blindness. This may be why the military is not so interested.

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

3264. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 00:19:13 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a1740e0$0$18864$8046368a@newsreader.iphouse.net>
Source record: 15388

Dr. Barry L. Ornitz wrote:
> This can produce cataracts. The effect was seen among many early
> experimenters with microwaves and many members of the military.
> working with high power radars. So while the new weapon Richard
> talks about is non-lethal, it can easily cause blindness. This may
> be why the military is not so interested.
>

I have seen demonstrations of one of these devices on one or another cable channel. I believe they mentioned a frequency in the 60GHz range. They also mentioned the penetration depth on skin was something like a mm. The effect is supposed to feel like instant extremely severe sunburn. You WILL leave the area immediately. They tested it on one of the hosts of the show. He moved out of the area of the effect very quickly.

Given the desire of the subjects to get the hell out of Dodge when the system was pointed at them, I doubt cataracts would be an issue.

Don't take any numbers I stated here as correct, it was a while ago.

tom
K0TAR

3265. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 00:35:12 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <2xHRl.58093$Jc3.6793@newsfe16.iad>
Source record: 15389

"Tom Ring" <news0004@taring.org> wrote in message
news:4a1740e0$0$18864$8046368a@newsreader.iphouse.net...
> Dr. Barry L. Ornitz wrote:
>> This can produce cataracts. The effect was seen among many early
>> experimenters with microwaves and many members of the military.
>> working with high power radars. So while the new weapon Richard
>> talks about is non-lethal, it can easily cause blindness. This may
>> be why the military is not so interested.
>>
>
> I have seen demonstrations of one of these devices on one or another
> cable channel. I believe they mentioned a frequency in the 60GHz
> range. They also mentioned the penetration depth on skin was something
> like a mm. The effect is supposed to feel like instant extremely
> severe sunburn. You WILL leave the area immediately. They tested it
> on one of the hosts of the show. He moved out of the area of the
> effect very quickly.
>
> Given the desire of the subjects to get the hell out of Dodge when the
> system was pointed at them, I doubt cataracts would be an issue.
>
> Don't take any numbers I stated here as correct, it was a while ago.

Tom,

I have seen the video too. But 1 millimeter penetration depth is still
enough to do serious damage to the eye. I doubt if this weapon ever
makes it into production. Is anyone familiar with the Hague Conventions
in relation to this?

--
73, Dr. Barry L. Ornitz WA4VZQ
BLOrnitz48@charter.net

3266. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 00:37:57 UTC
From: Buzz <buzz@none.com>
Message-ID: <gv7gh6$6fr$3@news.eternal-september.org>
Source record: 15390

kaka wrote:
> WHAT IS ISLAM?

A religion of "peace" that beheads people for not thinking like they do.

3267. Re: WHAT IS ISLAM?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 02:26:12 UTC
From: Tom Ring <news0004@taring.org>
Message-ID: <4a175ea3$0$18865$8046368a@newsreader.iphouse.net>
Source record: 15391

Buzz wrote:
> kaka wrote:
>> WHAT IS ISLAM?
>
> A religion of "peace" that beheads people for not thinking like they do.

Succinct and accurate.

3268. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 17:17:51 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <ohag15142fdc007o39m370dg7n2lb290j7@4ax.com>
Source record: 15392

On Fri, 22 May 2009 20:01:10 -0400, "Dr. Barry L. Ornitz"
<BLOrnitz48@charter.net> wrote:

>The ONLY effect that radio frequencies can do to humans is thermal.

Well, not exactly. Pulsed RF can be "heard". The original 1962
article:
<http://www.raven1.net/frey.htm>
Military applications:
<http://www.newscientist.com/article/dn14250-microwave-ray-gun-controls-crowds-with-noise.
html>

There's also some research into resonant vibrational effects of the
modulation frequency (i.e. GSM 217Hz buzz) on various cellular
structures. I don't recall the results (and am too lazy to find
them). Light reading:

Biological Effects Research:
<http://www.bioelectromagnetics.org/pubs.php>
<http://www.bioelectromagnetics.org/resources.php>

The FCC position:
<http://www.fcc.gov/oet/rfsafety/>
<http://www.fcc.gov/oet/info/documents/bulletins/#56>
<http://www.fcc.gov/oet/info/documents/bulletins/#56>

Handbook of Biological Effects of Electromagnetic Fields:
<http://books.google.com/books?id=PZd_2UJrwdwC>

Google searches for papers on the topic.
<http://scholar.google.com/scholar?q=radio+frequency+biological+effects>
<http://scholar.google.com/scholar?q=biological+effects+of+electromagnetic+fields>

Suggestions for furthur research:
1. Why does expsosure to RF seem to cause a compulsion for beginning
hams to upgrade their licenses?
2. Does the presence of RF cause cell phone users to yell into the
handset, while non-RF POTS phone users show now such tendencies?

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3269. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 22:00:56 UTC
From: jimlux@earthlink.net
Message-ID: <a0c323be-cf40-46f1-a87e-d031c54367ba@i28g2000prd.googlegroups.com>
Source record: 15393

On May 21, 11:43 am, Jeff Liebermann <je...@cruzio.com> wrote:
> On Thu, 21 May 2009 07:28:25 -0700 (PDT), ve2pid <ve2...@videotron.ca>
> wrote:
>
>
>
> >Hi to all,
>
> >Just got my new ATU. The specs mentionned:
>
> >Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
> >3:1)
>
> >It sems that this is the standardized (?) way to mention
> >specifications...
>
> >But, since impedances have both a resistive and reactive compoment,
> >doses it means 6 to 600 Ohms "resistive"?
>
> >For example , if Z= 500-J800 ohm, is it 'tunable'? I have a doubt
> >because the impedance could also mean sqrt(500^2+800^2)=943,4 Ohms..
>
> >Thanks de Pierre ve2...@videotron.ca
>
> Well, a little Googleing found the missing maker and model number.
> It's obviously made by LDG but which product?
> <http://www.ldgelectronics.com>
> The spec sheets aren't any more useful. I'm also rather suspicious
> because ALL their products, regardless of size or technology, have the
> same specification.

That's because all their tuners have the same component values (L and
C) in the same basic tuner configuration (switched L). The various
models just have different power ratings (and I suppose the loss is
different) and different other features.

It's a fairly straightforward process (albeit tedious) to map out all
possible places on the smith chart that can be tuned to 50 ohms by
their tuners. Somewhere around I have some plots I did with matlab
for just that.

Basically, you can get close by knowing the minimum and maximum L and
C available. The step size (which is fairly even across the range...
they have L and C in the 1,2,4,8 sequence) determines how close you
can get to 50 ohms from some arbitrary load Z (assuming it's in

range).

The power limitations on a tuner are sort of complex (which is why you don't see a lot of detail). There's the current through the L and C, and the voltage on the C. There's no simple relationship between, say, vswr and component voltage/current, since it depends on the particular match configuration. What you can assume is that the potential rise is proportional to the Q of the antenna and tuner together. Since antenna Q is usually fairly low compared to tuner components, you could probably get close by taking the ratio of the antenna's reactive component to the resistive component. (short verticals, notorious for high voltages in a tuning network, have high reactance and small resistance..)

3270. Re: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 22:32:24 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <gv9ths$4gm$1@news.netins.net>
Source record: 15394

Impedance is the product of inductive and capacitive reactance in a AC
circuit

Resistance is the load in a DC circuit.

I think impedance has a different affect at different frequencies.....

Please correct me if I got all my theory wrong.

Rollie

3271. Re: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 23:15:04 UTC
From: jgboyles@aol.com
Message-ID: <c05f404a-18bc-4957-8fbc-5711a20fe5c6@s12g2000yqi.googlegroups.com>
Source record: 15395

On May 23, 5:32 pm, "Rollie" <rol...@iowatelecom.net> wrote:
> Impedance is the product of inductive and capacitive reactance in a AC
> circuit
>
> Resistance is the load in a DC circuit.
>
> I think impedance has a different affect at different frequencies.....
>
> Please correct me if I got all my theory wrong.
>
> Rollie

Simply put, impedance is frequency dependent, resistance is not.
Thats why it is hard to specify a resistance or impedance range for a
tuner. Our antennas are frequency dependent because a 50 ohm match
is required no matter what frequency we transmit.

Gary N4AST

3272. Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-23 23:40:22 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <943a9bbd-214b-43b2-ac31-14f1d1c03091@f19g2000yqo.googlegroups.com>
Source record: 15396

I am looking for some help developing a properly tuned piano wire antenna for an all metal experimental rocket.
This particular vehicle currently uses a Digi International 9Xtream 100 mw transmitter which operates using Frequency Hopping Spread Spectrum from 910 to 918 MHz.

The first flight used a .062" diameter length of piano wire cut so that the exposed length was about 1/2 wavelength. The wire antenna was isolated from the metal airfame with a small nylon penetrator and connected to the transmitter via about a 12" length of RG-178 coax. The coax was terminated at the antenna via two small jumpers (soldered to the center conductor and shield). The shield was grounded on the metal airframe transforming the entire rocket into an artificial ground plane (the antenna was also swept back at about a 45 degree angle to reduce drag.

During this first flight we observed a range of about 10 miles, about half of the published range of this transmitter. The RF system is used as a downlink for GPS data and we did not get a good radio link after ignition until the rocket had descended to about 50,000 feet. Maximum velocity was about Mach 3 which is why a conventional antenna cannot be used as it will be melted by friction.

For the second version, we are thinking of using a slightly smaller diameter piano wire for a 1/4 wave length antenna as I think this may be more suitable for a system using an artificial ground plane. In addition, I plan to terminate the RG-178 coax directly at the antenna and seal it with potting compound. This new antenna will be mounted totally on the exterior of the airframe and angled back only about 10 degrees to give a better radiation pattern.

However, I would really like to properly tune this new antenna and was wondering if anyone in this group has any ideas as to how to do this. Doing a tuned RCL circuit at this frequency is proving to be difficult using discrete components, to say the least. I do not have an SWR, but do have an RF millivolt meter as well as the means to measure the capacitance between the antenna and metal airframe.

Any help will be appreciated as I would hate to fly this thing again and not get it back because our RF downlink had insufficient range.

C. Newport

3273. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 03:08:01 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <v5eh15ljo2g1qmt5tra85un6ell4nc1ijc@4ax.com>
Source record: 15397

On Sat, 23 May 2009 16:40:22 -0700 (PDT), mr1956 <mr1956@comcast.net>
wrote:

>Maximum
>velocity was about Mach 3 which is why a conventional antenna cannot
>be used as it will be melted by friction.

Would seem to be at odds with:

>This new antenna will be mounted
>totally on the exterior of the airframe and angled back only about 10
>degrees to give a better radiation pattern.

At Mach 3, I seriously doubt you could hold it as erect (80 degrees to
the fuselage) as you might try with smaller wire (in fact, I would say
it would be plastered down).

If your telemetry is directly below its ascendance, you might try a
full-wave or longer antenna trailing below (if it can withstand the
propulsion heat). If that is not possible, look into an inverted F:
http://www.qsl.net/kb7qhc/antenna/Inverted%20F/index.htm
(it doesn't have to be a thick antenna).

73's
Richard Clark, KB7QHC

3274. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 04:04:52 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <EH3SI.270$Cc1.175@nwrddc01.gnilink.net>
Source record: 15398

"mr1956" <mr1956@comcast.net> wrote in message
news:943a9bbd-214b-43b2-ac31-14f1d1c03091@f19g2000yqo.googlegroups.com...
>I am looking for some help developing a properly tuned piano wire
> antenna for an all metal experimental rocket.
> This particular vehicle currently uses a Digi International 9Xtream
> 100 mw transmitter which operates using Frequency Hopping Spread
> Spectrum from 910 to 918 MHz.
>
> The first flight used a .062" diameter length of piano wire cut so
> that the exposed length was about 1/2 wavelength. The wire antenna was
> isolated from the metal airfame with a small nylon penetrator and
> connected to the transmitter via about a 12" length of RG-178 coax.
> The coax was terminated at the antenna via two small jumpers (soldered
> to the center conductor and shield). The shield was grounded on the
> metal airframe transforming the entire rocket into an artificial
> ground plane (the antenna was also swept back at about a 45 degree
> angle to reduce drag.
>
> During this first flight we observed a range of about 10 miles, about
> half of the published range of this transmitter. The RF system is used
> as a downlink for GPS data and we did not get a good radio link after
> ignition until the rocket had descended to about 50,000 feet. Maximum
> velocity was about Mach 3 which is why a conventional antenna cannot
> be used as it will be melted by friction.
>
> For the second version, we are thinking of using a slightly smaller
> diameter piano wire for a 1/4 wave length antenna as I think this may
> be more suitable for a system using an artificial ground plane. In
> addition, I plan to terminate the RG-178 coax directly at the antenna
> and seal it with potting compound. This new antenna will be mounted
> totally on the exterior of the airframe and angled back only about 10
> degrees to give a better radiation pattern.
>
> However, I would really like to properly tune this new antenna and was
> wondering if anyone in this group has any ideas as to how to do this.
> Doing a tuned RCL circuit at this frequency is proving to be difficult
> using discrete components, to say the least. I do not have an SWR, but
> do have an RF millivolt meter as well as the means to measure the
> capacitance between the antenna and metal airframe.
>
> Any help will be appreciated as I would hate to fly this thing again
> and not get it back because our RF downlink had insufficient range.
>
> C. Newport

Hi C

Have you considered flush antennas, like slots?

Is is practical to use antenna directivity at the ground station to increase the "range"?

It might be advantageous to use Linear Polarization on the rocket and Circular Polarization on the ground.

For impedance measurement at L band, it is possible to build a slotted line using plumbing supplies. That presumes that you already have access to a signal generator and a detector to record the signal generator's output.
A home built slotted line will have difficulty regestaring low VSWRs.
But, once it is known that the load impedance is close to the line impedance (low VSWR), a directional coupler can be used to match more precisely.

I have built a "plumber's delight" slotted line that works well at 130 MHZ. The high quality directional couplers are affordable on eBay.
Note - If I can do it, it cant be too complicated!

Jerry KD6JDJ

3275. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 04:45:15 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <erhh151bb5n4nm3l9gm87gh1als7qr9nb4@4ax.com>
Source record: 15399

On Sat, 23 May 2009 16:40:22 -0700 (PDT), mr1956 <mr1956@comcast.net>
wrote:

>I am looking for some help developing a properly tuned piano wire
>antenna for an all metal experimental rocket.
>This particular vehicle currently uses a Digi International 9Xtream
>100 mw transmitter which operates using Frequency Hopping Spread
>Spectrum from 910 to 918 MHz.

Would that perhaps be one of these models? If so, which one?
<http://www.digi.com/products/wireless/point-multipoint/xstream-module.jsp>
<http://www.digi.com/register/procregistrationnothankyou.jsp?urlredirect=/pdf/ds_xstreammo
dule.pdf>

>During this first flight we observed a range of about 10 miles, about
>half of the published range of this transmitter. The RF system is used
>as a downlink for GPS data and we did not get a good radio link after
>ignition until the rocket had descended to about 50,000 feet. Maximum
>velocity was about Mach 3 which is why a conventional antenna cannot
>be used as it will be melted by friction.

Ummm... let's do some path loss calcs first. I'll assume that you're
using a matching XStream radio on the ground, with a moderate size
yagi antenna pointed in the general direction of the sky.

Rocket end:
xmitter +20dBm
tx coax loss 0dB
tx ant gain 0dBi (monopole 1/4 wave)
path loss (to be calculated)
rx ant gain +12dBi
rx coax loss 0db
rx sens -110dBm (at 9600 baud)
I'll assume a minimum fade margin of 20dB.

Adding up all the gains, losses, fade margin, and guesswork, I end up
with a maximum path loss of 132dB. Plugging into a handy online
calculator at:
<http://www.terabeam.com/support/calculations/free-space-loss.php>
I get a maximum range of 25 miles. It should work.

However, the weak link here is that I'm doing quite a bit of
guesswork. For example, you really do need a +12dBi (tracking?) yagi
antenna to make this work. If you use a simple dipole, with a gain of
perhaps 2dBi in place of the yagi, your maximum path loss just dropped
to 122dB which yields a maximum range of only 8 miles, which is

roughly what you're getting.

You may also be getting a major interference at altitude, which does not appear on the ground. From 5 miles up, the rocket is going to hear plenty of 900MHz interference from all over the country. Each signal will be fairly low level due to the distance, but there will be lots and lots of signals up there. Try your rocket radio from a local mountain top before launching to see if the receiver can handle the interference. Since it's a frequency hopper and not a direct sequence spread spectrum radio, it probably will, but it doesn't hurt to test.

Incidentally, the previous back of the envelope path calcs are the BEST case model. There are always additional losses and reductions. For example, few manufacturers seem to meet their published specifications. The antenna gains really require a full NEC2 simulation which includes the metal rocket body. Things only get worse.

>For the second version, we are thinking of using a slightly smaller
>diameter piano wire for a 1/4 wave length antenna as I think this may
>be more suitable for a system using an artificial ground plane. In
>addition, I plan to terminate the RG-178 coax directly at the antenna
>and seal it with potting compound. This new antenna will be mounted
>totally on the exterior of the airframe and angled back only about 10
>degrees to give a better radiation pattern.

You're reinventing the wheel. Look at photos of the original Explorer I satellite (with Von Braun and others holding it over their heads). There are 4 wires radiating from the tubular rocket casing forming a circularly polarized double dipole "turnstile" antenna. Since it's since one antenna is always visible, there's no blocking by the missile body. Since it's circularly polarized, there's no positional nulls and peaks.
<http://history.nasa.gov/sputnik/expinfo.html>

>However, I would really like to properly tune this new antenna and was
>wondering if anyone in this group has any ideas as to how to do this.

Cut it for 1/4 wavelength at about 921MHz. Be careful when cutting the coax phasing sections to get the velocity factor calcs correct.

>Doing a tuned RCL circuit at this frequency is proving to be difficult
>using discrete components, to say the least. I do not have an SWR, but
>do have an RF millivolt meter as well as the means to measure the
>capacitance between the antenna and metal airframe.

900MHz VSWR meters that work at 100mw are not common. You would have problems using one anyway because the xmitter does not generate a CW signal suitable for easy testing. Methinks you'll do better dragging the rocket somewhere that has a network analyzer or suitable pile of test equipment for characterizing the antenna.

>Any help will be appreciated as I would hate to fly this thing again
>and not get it back because our RF downlink had insufficient range.
>
>C. Newport

I think you'll find that the tracking 900MHz yagi antenna on the
ground is the key part of the puzzle. Did you try driving the rocket
5 to 10 miles away and testing if it can be heard from the ground
station? If you run this test, it's easiest to run between mountain
tops to insure line of sight.

Good luck.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3276. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 05:17:48 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <etlh155huhn7gnihlglofq02ofuseesabs@4ax.com>
Source record: 15400

On Sat, 23 May 2009 21:45:15 -0700, Jeff Liebermann <jeffl@cruzio.com>
wrote:

>You're reinventing the wheel. Look at photos of the original Explorer
>I satellite (with Von Braun and others holding it over their heads).
>There are 4 wires radiating from the tubular rocket casing forming a
>circularly polarized double dipole "turnstile" antenna. Since it's
>since one antenna is always visible, there's no blocking by the
>missile body. Since it's circularly polarized, there's no positional
>nulls and peaks.
><http://history.nasa.gov/sputnik/expinfo.html>

More photos:
<http://www.redstone.army.mil/history/explorer/EXPLORER.html>
<http://www.redstone.army.mil/history/explorer/Explorer%20One%20Satellite%20Diagram.jpg>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3277. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 05:25:18 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <rhmh159k1042tevkqv544g2hjbpgofd1u6@4ax.com>
Source record: 15251

On Sun, 24 May 2009 04:04:52 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

> Have you considered flush antennas, like slots?

Slot antennas have the maximum lobe perpendicular to the rocket axis.
There's very little signal below the rocket. This is why tracking
stations are far away from the launch site. If the rocket were
overhead, and going straight up, there's no signal.

Slot antennas are also a power waste. You need 4 slots, run by a
power splitter, in order to insure that at least one antenna is
oriented in the direction of the receiver. Meanwhile, the other 3
slot antennas are radiating power to nobody in particular. Say goodby
to about 3/4th of your tx power. Receive sensitivity is not
affected.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3278. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 06:23:14 UTC
From: "Helmut Wabnig"
Message-ID: <a1ph15hifdviuq0t4ntm474lktsn5va731@4ax.com>
Source record: 15252

On Sat, 23 May 2009 16:40:22 -0700 (PDT), mr1956 <mr1956@comcast.net>
wrote:

>I am looking for some help developing a properly tuned piano wire
>antenna for an all metal experimental rocket.
>This particular vehicle currently uses a Digi International 9Xtream
>100 mw transmitter which operates using Frequency Hopping Spread
>Spectrum from 910 to 918 MHz.
>
>The first flight used a .062" diameter length of piano wire cut so
>that the exposed length was about 1/2 wavelength. The wire antenna was
>isolated from the metal airfame with a small nylon penetrator and
>connected to the transmitter via about a 12" length of RG-178 coax.
>The coax was terminated at the antenna via two small jumpers (soldered
>to the center conductor and shield). The shield was grounded on the
>metal airframe transforming the entire rocket into an artificial
>ground plane (the antenna was also swept back at about a 45 degree
>angle to reduce drag.
>
>During this first flight we observed a range of about 10 miles, about
>half of the published range of this transmitter. The RF system is used
>as a downlink for GPS data and we did not get a good radio link after
>ignition until the rocket had descended to about 50,000 feet. Maximum
>velocity was about Mach 3 which is why a conventional antenna cannot
>be used as it will be melted by friction.
>
>For the second version, we are thinking of using a slightly smaller
>diameter piano wire for a 1/4 wave length antenna as I think this may
>be more suitable for a system using an artificial ground plane. In
>addition, I plan to terminate the RG-178 coax directly at the antenna
>and seal it with potting compound. This new antenna will be mounted
>totally on the exterior of the airframe and angled back only about 10
>degrees to give a better radiation pattern.
>
>However, I would really like to properly tune this new antenna and was
>wondering if anyone in this group has any ideas as to how to do this.
>Doing a tuned RCL circuit at this frequency is proving to be difficult
>using discrete components, to say the least. I do not have an SWR, but
>do have an RF millivolt meter as well as the means to measure the
>capacitance between the antenna and metal airframe.
>
>Any help will be appreciated as I would hate to fly this thing again
>and not get it back because our RF downlink had insufficient range.
>

>C. Newport

Better length is about lamda/4 or lamda 5/8.
Lamda/2 is way off.

Do not use too thin wires, the thicker the better.

For reception on the ground station use a helix antenna,
because that antenna is polarization independent.
The antenna must be pointed in the direction of the object,
helixes are very directional.

http://hamwaves.com/antennas/inductance/helical_antenna.jpg
http://www.rac.ca/tca/2006-01%20Helix%20Design%20Calculator.html
http://jcoppens.com/ant/helix/calc.en.php

If direction is a problem,
use a quadrifilar as ground station antenna.

http://homepages.ipact.nl/~pa1are/QHA.html

w.

3279. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 06:38:36 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <oD6SI.73520$uD3.51198@newsfe20.iad>
Source record: 15255

"Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> wrote in message
news:61HRl.42752$0S.19615@newsfe22.iad...

< snip >

> It was found that at many restaurants,
> the doors were taken off the units and the ovens were operated
> continuously. Litton soon provided interlocks on the doors!
> People would place food into the cavity without turning off the
> microwaves. Other than a few thermal burns, no one was seriously
> hurt by the ovens - with one exception.

I installed a 10-foot TVRO at home in 1985 and read an inordinate amount of material on the subject in the 1980's. I read a "don't let this happen to you" story about an experimenter who supposedly used a microwave oven magnetron as a local oscillator for his own TVRO. He didn't shield it properly and received fatal heating injuries to his internal organs.

Possibly BS, possibly accurate. I tried finding some reference to it on the Internet but was unsuccessful. Anybody remember the story?

The LO for a C-band TVRO is 5150 MHz, nowhere near a Microwave oven freq (2450) but its second harmonic, 4900, is a candidate for block downconversion of some of the channels.

"Sal

3280. Memorial Day Specials, 2 Days Only: Sunday - Monday (5/24-5/25).

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 06:41:30 UTC
From: fighter <ibfsd706548@pchome.com.tw>
Message-ID: <2c37a264-216b-4f14-bc9c-5a97d32960ce@y33g2000prg.googlegroups.com>
Source record: 15253

http://www.sogiant.idv.tw/

COMPUTING & HOME OFFICE

Sunday – Monday Only: Select Monitors 23" and Up On Sale. Valid
5/24-5/25
Sunday – Monday Only: $50 Off D-Link Xtreme N Wireless–N Gigabit
Gaming Router with 4–Port Switch. Valid 5/24-5/25
Sunday – Monday Only: Free Shipping on Select Laptop Cases, Batteries
and Mobile Accessories. Valid 5/24-5/25
Sunday – Monday Only: Free Shipping on Select Canon Laser Printers.
Valid 5/24-5/24
Sunday – Monday Only: Free Shipping on Select Epson Printers. Valid
5/24-5/25
Sunday – Monday Only: Free Shipping on Select PC Speakers. Valid
5/24-5/25
Sunday – Monday Only: Free Shipping on Select Gaming Mice and
Keyboards. Valid 5/24-5/25
Sunday – Monday Only: Free Shipping on Select Optical Drives and Hard
Drives. Valid 5/24-5/25
Sunday – Monday Only: Free Shipping on Select Cables and Connectors.
Valid 5/24-5/25
Sunday – Monday Only: Free Shipping on Select Video Graphics Cards.
Valid 5/24-5/25

http://www.sogiant.idv.tw/modules/newbb/viewtopic.php?topic_id=699&post_id=740#forumpost74
0

DIGITAL CAMERAS, CAMCORDERS

Sunday – Monday Only: Free Joby Gorillapod Tripod with Select Digital
Cameras. Valid 5/24-5/25

IPOD & MP3 PLAYERS

Sunday – Monday Only: Free $25 Gift Card with Zune 120GB MP3 Player.
Valid 5/24-5/25
Sunday – Monday Only: $20 Off Sony AM/FM Clock Radio with AppleR iPodR
Dock, Plus Free Shipping. Valid 5/24-5/25
Sunday – Monday Only: Free Shipping on All AppleR iPodR MP3 Player
Cases. Valid 5/24-5/25

GPS AND CAR ACCESSORIES
Sunday – Monday Only: $20 Off Sirius Stratus 5 Dock & Play Radio with
Complete Vehicle Kit2. Valid 5/24-5/25
Sunday – Monday Only: $50 Off TomTom XL 330S Portable GPS Receiver
Package, Plus Free Shipping, Now 179.99. Valid 5/24-5/25

Sunday – Monday Only: 10% Off All Car Video Players. Valid 5/24-5/25
Sunday – Monday Only: All Cobra Radar Detectors On Sale. Valid 5/24-5/25

HOME THEATER

Sunday – Monday Only: Free Select Blu-ray Disc Movie with Any Blu-ray Disc Player. Valid 5/24-5/25
Sunday – Monday Only: 10% Off Select Geek SquadR Home Theater Installation Services. Valid 5/24-5/25
Sunday – Monday Only: Get a Select Sony Blu-ray Disc Player for $99 With Select Sony HDTVs. Valid 5/24-5/25
Sunday – Monday Only: 15% - 20% Off Select Speakers. Valid 5/24-5/25
Sunday – Monday Only: Free Select Blu-ray Disc Movie (Shipping Extra) with Any Blu-ray Disc Player. Valid 5/24-5/25

MUSICAL INSTRUMENTS

Sunday – Monday Only: All Guitar Straps, Picks, Strings and T-Shirts On Sale, Plus Free Shipping. Valid 5/24-5/25

APPLIANCES

Sunday – Monday Only: 15% Off Select Small Appliances & Personal Care Products $29 and Up. Valid 5/24-5/25
Sunday – Monday Only: 15% Off Select Major Appliances and Countertop Microwaves. Valid 5/24-5/25
Sunday – Monday Only: 10% Off Select LG Major Appliances and LG Countertop Microwaves. Valid 5/24-5/25
Sunday – Monday Only: All Compact Refrigerators On Sale. Valid 5/24-5/25
Sunday – Monday Only: 10% Off All Air Conditioners and Fans. Valid 5/24-5/25

http://www.sogiant.idv.tw/modules/newbb/viewtopic.php?topic_id=700&post_id=741#forumpost741

3281. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 06:54:49 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <pD6SI.73521$uD3.69462@newsfe20.iad>
Source record: 15254

"Dr. Barry L. Ornitz" <BLOrnitz48@charter.net> wrote in message
news:2xHRl.58093$Jc3.6793@newsfe16.iad...

[Thread meandered to non-lethal weapons, specifically the 60 GHz
crowd-control weapon.]

< snip >

> Is anyone familiar with the Hague Conventions
> in relation to this?

Article 23(e) of the 1907 Hague Convention prohibits the use of "arms,
projectiles or materials calculated to cause unnecessary suffering."

Great ... now define "unnecessary."

"Sal"

3282. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 07:30:03 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <%H6SI.389$9L2.39@nwrddc02.gnilink.net>
Source record: 15256

"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
news:rhmh159k1042tevkqv544g2hjbpgofd1u6@4ax.com...
> On Sun, 24 May 2009 04:04:52 GMT, "Jerry" <jerrymartes@verizon.net>
> wrote:
>
>> Have you considered flush antennas, like slots?
>
> Slot antennas have the maximum lobe perpendicular to the rocket axis.
> There's very little signal below the rocket. This is why tracking
> stations are far away from the launch site. If the rocket were
> overhead, and going straight up, there's no signal.
>
> Slot antennas are also a power waste. You need 4 slots, run by a
> power splitter, in order to insure that at least one antenna is
> oriented in the direction of the receiver. Meanwhile, the other 3
> slot antennas are radiating power to nobody in particular. Say goodby
> to about 3/4th of your tx power. Receive sensitivity is not
> affected.
>
> --
> Jeff Liebermann jeffl@cruzio.com
> 150 Felker St #D http://www.LearnByDestroying.com
> Santa Cruz CA 95060 http://802.11junk.com
> Skype: JeffLiebermann AE6KS 831-336-2558

Hi Jeff

Why are you so negative?? I have designed and built lots of slot
antennas that were widely used on military aircraft. The efficiency is
quite good. I am sure a smart guy like you could design a slot antenna and
locate it for those guys with the 3G rocket. There hasnt been any text
that restricts where the slot could be located. As I read the original
post, they werent receiving signal from the accending rocket. Maybe they
only want to receive data that was recorded after the rocket reached it's
peak. There are lots of information that you and I dont yet know. But,
my major question for you is "Why are you so negative?".

Jerry KD6JDJ

3283. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 07:35:03 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <HM6SI.390$9L2.275@nwrddc02.gnilink.net>
Source record: 15257

"Helmut Wabnig" <hwabnig@ .- --- -. dotat> wrote in message
news:a1ph15hifdviuq0t4ntm474lktsn5va731@4ax.com...
> On Sat, 23 May 2009 16:40:22 -0700 (PDT), mr1956 <mr1956@comcast.net>
> wrote:
>
>>I am looking for some help developing a properly tuned piano wire
>>antenna for an all metal experimental rocket.
>>This particular vehicle currently uses a Digi International 9Xtream
>>100 mw transmitter which operates using Frequency Hopping Spread
>>Spectrum from 910 to 918 MHz.
>>
>>The first flight used a .062" diameter length of piano wire cut so
>>that the exposed length was about 1/2 wavelength. The wire antenna was
>>isolated from the metal airfame with a small nylon penetrator and
>>connected to the transmitter via about a 12" length of RG-178 coax.
>>The coax was terminated at the antenna via two small jumpers (soldered
>>to the center conductor and shield). The shield was grounded on the
>>metal airframe transforming the entire rocket into an artificial
>>ground plane (the antenna was also swept back at about a 45 degree
>>angle to reduce drag.
>>
>>During this first flight we observed a range of about 10 miles, about
>>half of the published range of this transmitter. The RF system is used
>>as a downlink for GPS data and we did not get a good radio link after
>>ignition until the rocket had descended to about 50,000 feet. Maximum
>>velocity was about Mach 3 which is why a conventional antenna cannot
>>be used as it will be melted by friction.
>>
>>For the second version, we are thinking of using a slightly smaller
>>diameter piano wire for a 1/4 wave length antenna as I think this may
>>be more suitable for a system using an artificial ground plane. In
>>addition, I plan to terminate the RG-178 coax directly at the antenna
>>and seal it with potting compound. This new antenna will be mounted
>>totally on the exterior of the airframe and angled back only about 10
>>degrees to give a better radiation pattern.
>>
>>However, I would really like to properly tune this new antenna and was
>>wondering if anyone in this group has any ideas as to how to do this.
>>Doing a tuned RCL circuit at this frequency is proving to be difficult
>>using discrete components, to say the least. I do not have an SWR, but
>>do have an RF millivolt meter as well as the means to measure the
>>capacitance between the antenna and metal airframe.
>>
>>Any help will be appreciated as I would hate to fly this thing again

>>and not get it back because our RF downlink had insufficient range.
>>
>>C. Newport
>
>
> Better length is about lamda/4 or lamda 5/8.
> Lamda/2 is way off.
>
> Do not use too thin wires, the thicker the better.
>
> For reception on the ground station use a helix antenna,
> because that antenna is polarization independent.
> The antenna must be pointed in the direction of the object,
> helixes are very directional.
>
> http://hamwaves.com/antennas/inductance/helical_antenna.jpg
> http://www.rac.ca/tca/2006-01%20Helix%20Design%20Calculator.html
> http://jcoppens.com/ant/helix/calc.en.php
>
> If direction is a problem,
> use a quadrifilar as ground station antenna.
>
> http://homepages.ipact.nl/~pa1are/QHA.html
>
>
> w.

Hi Helmut

It may be that you are not familiar with a ground based antenna with similar caracteristics to a QHA, but muich easier to build at home. The DCA is much less critical to make work properly than a QHA.

Jerry KD6JDJ

3284. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 08:26:20 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C15BB92041BEnonenowhere@61.9.191.5>
Source record: 15258

mr1956 <mr1956@comcast.net> wrote in news:943a9bbd-214b-43b2-ac31-14f1d1c03091@f19g2000yqo.googlegroups.com:

> I am looking for some help developing a properly tuned piano wire
> antenna for an all metal experimental rocket.
> This particular vehicle currently uses a Digi International 9Xtream
> 100 mw transmitter which operates using Frequency Hopping Spread
> Spectrum from 910 to 918 MHz.
>
> The first flight used a .062" diameter length of piano wire cut so
> that the exposed length was about 1/2 wavelength. The wire antenna was
> isolated from the metal airfame with a small nylon penetrator and
> connected to the transmitter via about a 12" length of RG-178 coax.
> The coax was terminated at the antenna via two small jumpers (soldered
> to the center conductor and shield). The shield was grounded on the
> metal airframe transforming the entire rocket into an artificial
> ground plane (the antenna was also swept back at about a 45 degree
> angle to reduce drag.

So you designed for a half wave antenna fed with 12" of RG178.

Lets suppose for a moment that the antenna has a feedpoint Z of say, 2000 +j0 ohms. The line will transform that to 5+j14 at the tx end, and with a loss of 4.8dB (ie 33% efficiency). The tx is unlikely to develop is rated output power into such a load, so there will be some further reduction.

Yes, an antenna of half the size (ie a quarter wave fed against the metal rocket body) might well work ten times as good.

Owen

3285. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 11:17:05 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <8e9fa489-e6f8-4cfc-8048-09b563882706@s31g2000vbp.googlegroups.com>
Source record: 15259

On May 23, 11:08 pm, Richard Clark <kb7...@comcast.net> wrote:
> On Sat, 23 May 2009 16:40:22 -0700 (PDT), mr1956 <mr1...@comcast.net>
> wrote:
>
> >Maximum
> >velocity was about Mach 3 which is why a conventional antenna cannot
> >be used as it will be melted by friction.
>
> Would seem to be at odds with:
>
> >This new antenna will be mounted
> >totally on the exterior of the airframe and angled back only about 10
> >degrees to give a better radiation pattern.
>
> At Mach 3, I seriously doubt you could hold it as erect (80 degrees to
> the fuselage) as you might try with smaller wire (in fact, I would say
> it would be plastered down).
>
> If your telemetry is directly below its ascendance, you might try a
> full-wave or longer antenna trailing below (if it can withstand the
> propulsion heat). If that is not possible, look into an inverted
F:http://www.qsl.net/kb7qhc/antenna/Inverted%20F/index.htm
> (it doesn't have to be a thick antenna).
>
> 73's
> Richard Clark, KB7QHC

Yes the antenna will be pressed back against the airframe during
flight but should be erect at apogee and during descent. The previous
one survived just fine.

C. Newport

3286. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 11:22:34 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <a8422acb-db99-400f-8f9c-8be6b4b0dbbb@s28g2000vbp.googlegroups.com>
Source record: 15260

On May 24, 12:04 am, "Jerry" <jerrymar...@verizon.net> wrote:
> "mr1956" <mr1...@comcast.net> wrote in message
>
> news:943a9bbd-214b-43b2-ac31-14f1d1c03091@f19g2000yqo.googlegroups.com...
>
>
>
> >I am looking for some help developing a properly tuned piano wire
> > antenna for an all metal experimental rocket.
> > This particular vehicle currently uses a Digi International 9Xtream
> > 100 mw transmitter which operates using Frequency Hopping Spread
> > Spectrum from 910 to 918 MHz.
>
> > The first flight used a .062" diameter length of piano wire cut so
> > that the exposed length was about 1/2 wavelength. The wire antenna was
> > isolated from the metal airfame with a small nylon penetrator and
> > connected to the transmitter via about a 12" length of RG-178 coax.
> > The coax was terminated at the antenna via two small jumpers (soldered
> > to the center conductor and shield). The shield was grounded on the
> > metal airframe transforming the entire rocket into an artificial
> > ground plane (the antenna was also swept back at about a 45 degree
> > angle to reduce drag.
>
> > During this first flight we observed a range of about 10 miles, about
> > half of the published range of this transmitter. The RF system is used
> > as a downlink for GPS data and we did not get a good radio link after
> > ignition until the rocket had descended to about 50,000 feet. Maximum
> > velocity was about Mach 3 which is why a conventional antenna cannot
> > be used as it will be melted by friction.
>
> > For the second version, we are thinking of using a slightly smaller
> > diameter piano wire for a 1/4 wave length antenna as I think this may
> > be more suitable for a system using an artificial ground plane. In
> > addition, I plan to terminate the RG-178 coax directly at the antenna
> > and seal it with potting compound. This new antenna will be mounted
> > totally on the exterior of the airframe and angled back only about 10
> > degrees to give a better radiation pattern.
>
> > However, I would really like to properly tune this new antenna and was
> > wondering if anyone in this group has any ideas as to how to do this.
> > Doing a tuned RCL circuit at this frequency is proving to be difficult
> > using discrete components, to say the least. I do not have an SWR, but
> > do have an RF millivolt meter as well as the means to measure the
> > capacitance between the antenna and metal airframe.

>
> > Any help will be appreciated as I would hate to fly this thing again
> > and not get it back because our RF downlink had insufficient range.
>
> > C. Newport
>
> Hi C
>
> Have you considered flush antennas, like slots?
>
> Is is practical to use antenna directivity at the ground station to
> increase the "range"?
>
> It might be advantageous to use Linear Polarization on the rocket and
> Circular Polarization on the ground.
>
> For impedance measurement at L band, it is possible to build a slotted
> line using plumbing supplies. That presumes that you already have access
> to a signal generator and a detector to record the signal generator's
> output.
> A home built slotted line will have difficulty regestaring low VSWRs.
> But, once it is known that the load impedance is close to the line impedance
> (low VSWR), a directional coupler can be used to match more precisely.
>
> I have built a "plumber's delight" slotted line that works well at 130
> MHZ. The high quality directional couplers are affordable on eBay.
> Note - If I can do it, it cant be too complicated!
>
>   Jerry KD6JDJ

I have looked at slotted or flush wrap around antennas but integrating
one into the existing design would be difficult due to the wall
thickness of the metal. Something like that would have to be mounted
flush and I would be worried about the wind blast peeling the thing
off. Certainly, there is much that can be done but I am unfortunately
not Wallops Island and have limited resources like anyone else.

3287. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 11:49:01 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <def6a6e7-b16a-41f5-8fbb-58c4d2d0ea2a@n4g2000vba.googlegroups.com>
Source record: 15261

On May 24, 4:26 am, Owen Duffy <n...@no.where> wrote:
> mr1956 <mr1...@comcast.net> wrote in news:943a9bbd-214b-43b2-ac31-
> 14f1d1c03...@f19g2000yqo.googlegroups.com:
>
> > I am looking for some help developing a properly tuned piano wire
> > antenna for an all metal experimental rocket.
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> > 100 mw transmitter which operates using Frequency Hopping Spread
> > Spectrum from 910 to 918 MHz.
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> > The first flight used a .062" diameter length of piano wire cut so
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> > connected to the transmitter via about a 12" length of RG-178 coax.
> > The coax was terminated at the antenna via two small jumpers (soldered
> > to the center conductor and shield). The shield was grounded on the
> > metal airframe transforming the entire rocket into an artificial
> > ground plane (the antenna was also swept back at about a 45 degree
> > angle to reduce drag.
>
> So you designed for a half wave antenna fed with 12" of RG178.
>
> Lets suppose for a moment that the antenna has a feedpoint Z of say, 2000
> +j0 ohms. The line will transform that to 5+j14 at the tx end, and with a
> loss of 4.8dB (ie 33% efficiency). The tx is unlikely to develop is rated
> output power into such a load, so there will be some further reduction.
>
> Yes, an antenna of half the size (ie a quarter wave fed against the metal
> rocket body) might well work ten times as good.
>
> Owen

I have been reading the ARRL antenna book and while there is much
information, a lot of it is over my head. But one point I think a
chapter makes is that a 1/4 wave monopole will work better than a 1/2
wave using an artificial ground plane because of the way the voltage
peaks at the end of the antenna; or that is how it seems.

3288. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 12:57:32 UTC
From: "Helmut Wabnig"
Message-ID: <a1hi15pvddtduik3em5l9k9lt5cas6ursh@4ax.com>
Source record: 15262

On Sun, 24 May 2009 07:35:03 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

>
>"Helmut Wabnig" <hwabnig@ .- --- -. dotat> wrote in message
>news:a1ph15hifdviuq0t4ntm474lktsn5va731@4ax.com...
>> On Sat, 23 May 2009 16:40:22 -0700 (PDT), mr1956 <mr1956@comcast.net>
>> wrote:
>>
>>>I am looking for some help developing a properly tuned piano wire
>>>antenna for an all metal experimental rocket.
>>>This particular vehicle currently uses a Digi International 9Xtream
>>>100 mw transmitter which operates using Frequency Hopping Spread
>>>Spectrum from 910 to 918 MHz.
>>>
>>>The first flight used a .062" diameter length of piano wire cut so
>>>that the exposed length was about 1/2 wavelength. The wire antenna was
>>>isolated from the metal airfame with a small nylon penetrator and
>>>connected to the transmitter via about a 12" length of RG-178 coax.
>>>The coax was terminated at the antenna via two small jumpers (soldered
>>>to the center conductor and shield). The shield was grounded on the
>>>metal airframe transforming the entire rocket into an artificial
>>>ground plane (the antenna was also swept back at about a 45 degree
>>>angle to reduce drag.
>>>
>>>During this first flight we observed a range of about 10 miles, about
>>>half of the published range of this transmitter. The RF system is used
>>>as a downlink for GPS data and we did not get a good radio link after
>>>ignition until the rocket had descended to about 50,000 feet. Maximum
>>>velocity was about Mach 3 which is why a conventional antenna cannot
>>>be used as it will be melted by friction.
>>>
>>>For the second version, we are thinking of using a slightly smaller
>>>diameter piano wire for a 1/4 wave length antenna as I think this may
>>>be more suitable for a system using an artificial ground plane. In
>>>addition, I plan to terminate the RG-178 coax directly at the antenna
>>>and seal it with potting compound. This new antenna will be mounted
>>>totally on the exterior of the airframe and angled back only about 10
>>>degrees to give a better radiation pattern.
>>>
>>>However, I would really like to properly tune this new antenna and was
>>>wondering if anyone in this group has any ideas as to how to do this.
>>>Doing a tuned RCL circuit at this frequency is proving to be difficult
>>>using discrete components, to say the least. I do not have an SWR, but

>>>do have an RF millivolt meter as well as the means to measure the
>>>capacitance between the antenna and metal airframe.
>>>
>>>Any help will be appreciated as I would hate to fly this thing again
>>>and not get it back because our RF downlink had insufficient range.
>>>
>>>C. Newport
>>
>>
>> Better length is about lamda/4 or lamda 5/8.
>> Lamda/2 is way off.
>>
>> Do not use too thin wires, the thicker the better.
>>
>> For reception on the ground station use a helix antenna,
>> because that antenna is polarization independent.
>> The antenna must be pointed in the direction of the object,
>> helixes are very directional.
>>
>> http://hamwaves.com/antennas/inductance/helical_antenna.jpg
>> http://www.rac.ca/tca/2006-01%20Helix%20Design%20Calculator.html
>> http://jcoppens.com/ant/helix/calc.en.php
>>
>> If direction is a problem,
>> use a quadrifilar as ground station antenna.
>>
>> http://homepages.ipact.nl/~pa1are/QHA.html
>>
>>
>> w.
>
> Hi Helmut
>
> It may be that you are not familiar with a ground based antenna with
>similar caracteristics to a QHA, but muich easier to build at home. The
>DCA is much less critical to make work properly than a QHA.
>
> Jerry KD6JDJ
>
This is correct, yes.

w.

3289. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 13:48:51 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <7fcSl.406$9L2.42@nwrddc02.gnilink.net>
Source record: 15263

"mr1956" <mr1956@comcast.net> wrote in message
news:a8422acb-db99-400f-8f9c-8be6b4b0dbbb@s28g2000vbp.googlegroups.com...
On May 24, 12:04 am, "Jerry" <jerrymar...@verizon.net> wrote:
> "mr1956" <mr1...@comcast.net> wrote in message
>
> news:943a9bbd-214b-43b2-ac31-14f1d1c03091@f19g2000yqo.googlegroups.com...
>
>
>
> >I am looking for some help developing a properly tuned piano wire
> > antenna for an all metal experimental rocket.
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> > 100 mw transmitter which operates using Frequency Hopping Spread
> > Spectrum from 910 to 918 MHz.
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> > The coax was terminated at the antenna via two small jumpers (soldered
> > to the center conductor and shield). The shield was grounded on the
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> > ground plane (the antenna was also swept back at about a 45 degree
> > angle to reduce drag.
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> > half of the published range of this transmitter. The RF system is used
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> > ignition until the rocket had descended to about 50,000 feet. Maximum
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> > using discrete components, to say the least. I do not have an SWR, but

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> > capacitance between the antenna and metal airframe.
>
> > Any help will be appreciated as I would hate to fly this thing again
> > and not get it back because our RF downlink had insufficient range.
>
> > C. Newport
>
> Hi C
>
> Have you considered flush antennas, like slots?
>
> Is is practical to use antenna directivity at the ground station to
> increase the "range"?
>
> It might be advantageous to use Linear Polarization on the rocket and
> Circular Polarization on the ground.
>
> For impedance measurement at L band, it is possible to build a slotted
> line using plumbing supplies. That presumes that you already have access
> to a signal generator and a detector to record the signal generator's
> output.
> A home built slotted line will have difficulty regestaring low VSWRs.
> But, once it is known that the load impedance is close to the line
> impedance
> (low VSWR), a directional coupler can be used to match more precisely.
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> MHZ. The high quality directional couplers are affordable on eBay.
> Note - If I can do it, it cant be too complicated!
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> Jerry KD6JDJ
I have looked at slotted or flush wrap around antennas but integrating
one into the existing design would be difficult due to the wall
thickness of the metal. Something like that would have to be mounted
flush and I would be worried about the wind blast peeling the thing
off. Certainly, there is much that can be done but I am unfortunately
not Wallops Island and have limited resources like anyone else.

Hi C

It looks like your "wire" antenna might actually be OK for your project.
You have demonstrated that it works when the rocket is nearly 10 miles away
when you hoped for 20 miles. Evidently, the antenna doesnt need to
function while the rocket is accending.
Are you able to improve the ground based antenna The equipment you now
have would need only 6 dB improvement to provide the 20 mile range.
I'd like to know more about your ground based antenna system.

Jerry KD6JDJ (who has lots of small
diameterTeflon dielectric coax to donate to a real project)

3290. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 17:22:24 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvbmli$472$1@node1.news.atman.pl>
Source record: 15264

"mr1956" <mr1956@comcast.net> wrote
news:def6a6e7-b16a-41f5-8fbb-58c4d2d0ea2a@n4g2000vba.googlegroups.com...
On May 24, 4:26 am, Owen Duffy <n...@no.where> wrote:
> mr1956 <mr1...@comcast.net> wrote in news:943a9bbd-214b-43b2-ac31-
> 14f1d1c03...@f19g2000yqo.googlegroups.com:
>
>> > I am looking for some help developing a properly tuned piano wire
> > antenna for an all metal experimental rocket.
> > This particular vehicle currently uses a Digi International 9Xtream
> > 100 mw transmitter which operates using Frequency Hopping Spread
> > Spectrum from 910 to 918 MHz.
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>> > The first flight used a .062" diameter length of piano wire cut so
> > that the exposed length was about 1/2 wavelength. The wire antenna was
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> > The coax was terminated at the antenna via two small jumpers (soldered
> > to the center conductor and shield). The shield was grounded on the
> > metal airframe transforming the entire rocket into an artificial
> > ground plane (the antenna was also swept back at about a 45 degree
> > angle to reduce drag.
>
>> So you designed for a half wave antenna fed with 12" of RG178.
>
>> Lets suppose for a moment that the antenna has a feedpoint Z of say, 2000
> +j0 ohms. The line will transform that to 5+j14 at the tx end, and with a
> loss of 4.8dB (ie 33% efficiency). The tx is unlikely to develop is rated
> output power into such a load, so there will be some further reduction.
>
>> Yes, an antenna of half the size (ie a quarter wave fed against the metal
> rocket body) might well work ten times as good.
>
> Owen

>I have been reading the ARRL antenna book and while there is much
information, a lot of it is over my head. But one point I think a
chapter makes is that a 1/4 wave monopole will work better than a 1/2
wave using an artificial ground plane because of the way the voltage
peaks at the end of the antenna; or that is how it seems.

You are right. Antenna radiate from the end. So it should be thick as
possible.
How the length should be I do not know.
See: http://www.arrl.org/news/features/2007/09/28/03/?nc=1
"

The antennas are described as matched pairs, one 2.4 meters and the other 2.9 meters in length. The available literature gives no information on the electrical characteristics of the antenna system but it is probably safe to assume that they were some variation of a center-fed dipole with the longer pair radiating the 20 MHz (14 meter) signal and the shorter pair set up for 40 MHz or 7.5 meters. Figure 6 shows technicians attaching two of these elements to their angled connectors during assembly. Based on our assumption about the antenna configuration, we can use modern modeling software to analyze a dipole with of 5.8 meters in total length, angled to 70 degrees at the center where it is fed by a single 20 MHz source."

Is possible to determine the length of the antennas in wave fractions?

S*

3291. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 17:36:47 UTC
From: Dave <noone@nowhere.com>
Message-ID: <PAfSl.318$Cc1.119@nwrddc01.gnilink.net>
Source record: 15265

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gvbmli$472$1@node1.news.atman.pl...
>
> "mr1956" <mr1956@comcast.net> wrote
> news:def6a6e7-b16a-41f5-8fbb-58c4d2d0ea2a@n4g2000vba.googlegroups.com...
> On May 24, 4:26 am, Owen Duffy <n...@no.where> wrote:
>> mr1956 <mr1...@comcast.net> wrote in news:943a9bbd-214b-43b2-ac31-
>> 14f1d1c03...@f19g2000yqo.googlegroups.com:
>>
>>> > I am looking for some help developing a properly tuned piano wire
>> > antenna for an all metal experimental rocket.
>> > This particular vehicle currently uses a Digi International 9Xtream
>> > 100 mw transmitter which operates using Frequency Hopping Spread
>> > Spectrum from 910 to 918 MHz.
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>>> > The first flight used a .062" diameter length of piano wire cut so
>> > that the exposed length was about 1/2 wavelength. The wire antenna was
>> > isolated from the metal airfame with a small nylon penetrator and
>> > connected to the transmitter via about a 12" length of RG-178 coax.
>> > The coax was terminated at the antenna via two small jumpers (soldered
>> > to the center conductor and shield). The shield was grounded on the
>> > metal airframe transforming the entire rocket into an artificial
>> > ground plane (the antenna was also swept back at about a 45 degree
>> > angle to reduce drag.
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>>> So you designed for a half wave antenna fed with 12" of RG178.
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>>> Lets suppose for a moment that the antenna has a feedpoint Z of say,
>>> 2000
>> +j0 ohms. The line will transform that to 5+j14 at the tx end, and with a
>> loss of 4.8dB (ie 33% efficiency). The tx is unlikely to develop is rated
>> output power into such a load, so there will be some further reduction.
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>>> Yes, an antenna of half the size (ie a quarter wave fed against the
>>> metal
>> rocket body) might well work ten times as good.
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>> Owen
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>>I have been reading the ARRL antenna book and while there is much
> information, a lot of it is over my head. But one point I think a
> chapter makes is that a 1/4 wave monopole will work better than a 1/2
> wave using an artificial ground plane because of the way the voltage
> peaks at the end of the antenna; or that is how it seems.

>
> You are right. Antenna radiate from the end.

look, if you want to discuss your harebrained ideas please keep them in your own threads. don't try to confuse someone who has a real world problem with your idiotic theories.

3292. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 17:42:54 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <em1j15pfdc3aeae1gaqb9d5j0lpa25hbub@4ax.com>
Source record: 15266

On Sun, 24 May 2009 19:22:24 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:
>So it should be thick as possible.
Absolute nonsense, confirmed by the utter lack of experience:
>How the length should be I do not know.

73's
Richard Clark, KB7QHC

3293. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 18:08:36 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <de357c98-916d-4aeb-8675-6dd8babcaa59@n19g2000vba.googlegroups.com>
Source record: 15267

On May 24, 9:48 am, "Jerry" <jerrymar...@verizon.net> wrote:
> "mr1956" <mr1...@comcast.net> wrote in message
>
> news:a8422acb-db99-400f-8f9c-8be6b4b0dbbb@s28g2000vbp.googlegroups.com...
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> > "mr1956" <mr1...@comcast.net> wrote in message
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> > >I am looking for some help developing a properly tuned piano wire
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> > > do have an RF millivolt meter as well as the means to measure the
> > > capacitance between the antenna and metal airframe.
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>
> > > C. Newport
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> > Hi C
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>
> > Is is practical to use antenna directivity at the ground station to
> > increase the "range"?
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>   It looks like your "wire" antenna might actually be OK for your project.
> You have demonstrated that it works when the rocket is nearly 10 miles away
> when you hoped for 20 miles.   Evidently, the antenna doesnt need to
> function while the rocket is accending.
>   Are you able to improve the ground based antenna   The equipment you now
> have would need only 6 dB improvement to provide the 20 mile range.
>   I'd like to know more about your ground based antenna system.

>
>   Jerry   KD6JDJ   (who has lots of small
> diameterTeflon dielectric coax to donate to a real project)

Jerry:

The "ground station" is not much; just a small receiver with a standard 1/2 wave dipole attached using an sma connector. The receiver is battery powered and connected to a laptop using a standard serial cable. We had thought about using a Yagi during the previous flight but it just got left by the wayside with everything else that had to be done.

The basic telemetry and downlink system is manufactured by Ozark Aerospace (Erik Hall) but uses a Digi Int. 9Xstream radio modem (www.ozarkaerospace.com and I use the ARTS TX-900G and RX-900). I actually built my own transmitter and GPS system using a 5 watt data radio and Garmin GPS with a small Li-Ion battery pack. But that system was "lost" during a not so successful flight in Texas a few years ago. Hence, for this design I opted to buy something off the shelf that already worked.

Most people using this system have fiberglass airframes so for them it is a simple matter to use a commercially available antenna mounted inside of the airfame. But this is an all metal design so I had the telemetry board made so I could connect my own antenna. FYI, the rocket is 15 feet long, 6" in diameter and weighs over 100 lbs empty and close to 200 lbs. on the pad. It is all aluminum, except for the nose cone which is laminated birch. I'm using metal for the airframe because it just easier to work with and the first 8 feet of the rocket is metal anyway as that is the motor case.

The published range for this Digi Int. transmitter is 20 miles, though people doing amateur high-altitude balloon flights have reportedly observed even better reception from high altitudes (i.e., over 80 K feet). This rocket did about 85,000 feet last September at Black Rock, Nevada so it is doubtful that we will get GPS data at apogee anyway due to the COTS limitations. But I'd like to get as much as possible and will probably eventually convert to the 9Xtend modem which goes up to one watt xmit power.

Curt

3294. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 18:45:01 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <tcgoe6-u2b.ln1@mail.specsol.com>
Source record: 15268

Jeff Liebermann <jeffl@cruzio.com> wrote:
> On Sun, 24 May 2009 04:04:52 GMT, "Jerry" <jerrymartes@verizon.net>
> wrote:
>
>> Have you considered flush antennas, like slots?
>
> Slot antennas have the maximum lobe perpendicular to the rocket axis.
> There's very little signal below the rocket. This is why tracking
> stations are far away from the launch site. If the rocket were
> overhead, and going straight up, there's no signal.

That was my first thought on side mounted antennas.

The best solution would be something on the fins if that were
possible with the airframe design.

--
Jim Pennino

Remove .spam.sux to reply.

3295. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 18:59:09 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <1OgSl.327$Cc1.285@nwrddc01.gnilink.net>
Source record: 15269

> Hi C
>
> It looks like your "wire" antenna might actually be OK for your project.
> You have demonstrated that it works when the rocket is nearly 10 miles
> away
> when you hoped for 20 miles. Evidently, the antenna doesnt need to
> function while the rocket is accending.
> Are you able to improve the ground based antenna The equipment you now
> have would need only 6 dB improvement to provide the 20 mile range.
> I'd like to know more about your ground based antenna system.
>
> Jerry KD6JDJ (who has lots of small
> diameterTeflon dielectric coax to donate to a real project)

Jerry:

The "ground station" is not much; just a small receiver with a standard 1/2 wave dipole attached using an sma connector. The receiver is battery powered and connected to a laptop using a standard serial cable. We had thought about using a Yagi during the previous flight but it just got left by the wayside with everything else that had to be done.

The basic telemetry and downlink system is manufactured by Ozark Aerospace (Erik Hall) but uses a Digi Int. 9Xstream radio modem (www.ozarkaerospace.com and I use the ARTS TX-900G and RX-900). I actually built my own transmitter and GPS system using a 5 watt data radio and Garmin GPS with a small Li-Ion battery pack. But that system was "lost" during a not so successful flight in Texas a few years ago. Hence, for this design I opted to buy something off the shelf that already worked.

Most people using this system have fiberglass airframes so for them it is a simple matter to use a commercially available antenna mounted inside of the airfame. But this is an all metal design so I had the telemetry board made so I could connect my own antenna. FYI, the rocket is 15 feet long, 6" in diameter and weighs over 100 lbs empty and close to 200 lbs. on the pad. It is all aluminum, except for the nose cone which is laminated birch. I'm using metal for the airframe because it just easier to work with and the first 8 feet of the rocket is metal anyway as that is the motor case.

The published range for this Digi Int. transmitter is 20 miles, though people doing amateur high-altitude balloon flights have reportedly observed even better reception from high altitudes (i.e., over 80 K feet). This rocket did about 85,000 feet last September at Black Rock,

Nevada so it is doubtful that we will get GPS data at apogee anyway
due to the COTS limitations. But I'd like to get as much as possible
and will probably eventually convert to the 9Xtend modem which goes up
to one watt xmit power.

Curt

Hi Curt

I strongly suspect that you can use the antenna you now have on the
rocket. There is a possibility that you hadnt optimized the pointing of the
stub on the base station. You might be able to get enough system gain by
using a simple Turnstile Antenna at the ground station (Wikipedia).
If you decide you want more signal than you get with a Turnstile, it would
be easy to build a 900 MHz Helix or Crossed Yagii.
It seems very important to use a Circularly Polarized antenna at the
ground station.

Jerry

3296. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 19:06:04 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <co4j15hns201djjvjo28gh34q53mip90g5@4ax.com>
Source record: 15270

On Sun, 24 May 2009 07:30:03 GMT, "Jerry" <jerrymartes@verizon.net>
wrote:

>
>"Jeff Liebermann" <jeffl@cruzio.com> wrote in message
>news:rhmh159k1042tevkqv544g2hjbpgofd1u6@4ax.com...
>> On Sun, 24 May 2009 04:04:52 GMT, "Jerry" <jerrymartes@verizon.net>
>> wrote:
>>
>>> Have you considered flush antennas, like slots?
>>
>> Slot antennas have the maximum lobe perpendicular to the rocket axis.
>> There's very little signal below the rocket. This is why tracking
>> stations are far away from the launch site. If the rocket were
>> overhead, and going straight up, there's no signal.
>>
>> Slot antennas are also a power waste. You need 4 slots, run by a
>> power splitter, in order to insure that at least one antenna is
>> oriented in the direction of the receiver. Meanwhile, the other 3
>> slot antennas are radiating power to nobody in particular. Say goodby
>> to about 3/4th of your tx power. Receive sensitivity is not
>> affected.

> Hi Jeff
> Why are you so negative?? I have designed and built lots of slot
>antennas that were widely used on military aircraft. The efficiency is
>quite good. I am sure a smart guy like you could design a slot antenna and
>locate it for those guys with the 3G rocket. There hasnt been any text
>that restricts where the slot could be located. As I read the original
>post, they werent receiving signal from the accending rocket. Maybe they
>only want to receive data that was recorded after the rocket reached it's
>peak. There are lots of information that you and I dont yet know. But,
>my major question for you is "Why are you so negative?".
> Jerry KD6JDJ

I don't think I'm being particularly negative or offensive. I offered
what I consider to be a more reasonable alternative (CP turnstile
antenna) and ran the path loss calculations to insure that it would
work. I also itemized why a slot antenna would be an inferior
solution. My main point is that with a vertically ascending rocket,
the antenna pattern should be primarily ahead and behind the rocket,
not perpendicular.

I've seen one paper design that used insulated fins for the 4
turnstile antenna elements. However, I haven't seen the actual

rocket. I also built a 2.4GHz antenna system for a model airplane for a video downlink. The initial design was a slot antenna system in the fuselage, which worked great when the aircraft was overhead, but did badly when near the horizon and out of the antenna pattern. Two vertical monopoles and a power splitter did much better, especially since it worked well in inverted flight. I must admit that I haven't designed a slot antenna system for a high power Mach 3 rocket. I did build a small "G" motor rocket without telemetry but that doesn't count for much.

Anyway, we're both guessing. Without a clue as to the size, geometry, and construction of the rocket, the configuration of the ground station antenna, the location of the ground station, and the approximate trajectory (probably straight up), we can only speculate as to the optimal design. My guess is that this a level 1 rocket with an "H" or "I" motor which could barely tolerate the slight increase in diameter required for multiple slot antnnas. Wire or fin antennas don't add anything.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3297. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 19:11:48 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <8cba12a7-aa18-45a5-a4b5-5a3811851459@z7g2000vbh.googlegroups.com>
Source record: 15271

On May 24, 2:59 pm, "Jerry" <jerrymar...@verizon.net> wrote:
> > Hi C
>
> > It looks like your "wire" antenna might actually be OK for your project.
> > You have demonstrated that it works when the rocket is nearly 10 miles
> > away
> > when you hoped for 20 miles. Evidently, the antenna doesnt need to
> > function while the rocket is accending.
> > Are you able to improve the ground based antenna The equipment you now
> > have would need only 6 dB improvement to provide the 20 mile range.
> > I'd like to know more about your ground based antenna system.
>
> > Jerry KD6JDJ (who has lots of small
> > diameterTeflon dielectric coax to donate to a real project)
>
> Jerry:
>
> The "ground station" is not much; just a small receiver with a
> standard 1/2 wave dipole attached using an sma connector. The
> receiver is battery powered and connected to a laptop using a standard
> serial cable. We had thought about using a Yagi during the previous
> flight but it just got left by the wayside with everything else that
> had to be done.
>
> The basic telemetry and downlink system is manufactured by Ozark
> Aerospace (Erik Hall) but uses a Digi Int. 9Xstream radio modem
> (www.ozarkaerospace.comand I use the ARTS TX-900G and RX-900). I
> actually built my own transmitter and GPS system using a 5 watt data
> radio and Garmin GPS with a small Li-Ion battery pack. But that system
> was "lost" during a not so successful flight in Texas a few years ago.
> Hence, for this design I opted to buy something off the shelf that
> already worked.
>
> Most people using this system have fiberglass airframes so for them it
> is a simple matter to use a commercially available antenna mounted
> inside of the airfame. But this is an all metal design so I had the
> telemetry board made so I could connect my own antenna. FYI, the
> rocket is 15 feet long, 6" in diameter and weighs over 100 lbs empty
> and close to 200 lbs. on the pad. It is all aluminum, except for the
> nose cone which is laminated birch. I'm using metal for the airframe
> because it just easier to work with and the first 8 feet of the rocket
> is metal anyway as that is the motor case.
>
> The published range for this Digi Int. transmitter is 20 miles, though

> people doing amateur high-altitude balloon flights have reportedly
> observed even better reception from high altitudes (i.e., over 80 K
> feet). This rocket did about 85,000 feet last September at Black Rock,
> Nevada so it is doubtful that we will get GPS data at apogee anyway
> due to the COTS limitations. But I'd like to get as much as possible
> and will probably eventually convert to the 9Xtend modem which goes up
> to one watt xmit power.
>
> Curt
>
> Hi Curt
>
> I strongly suspect that you can use the antenna you now have on the
> rocket. There is a possibility that you hadnt optimized the pointing of the
> stub on the base station. You might be able to get enough system gain by
> using a simple Turnstile Antenna at the ground station (Wikipedia).
> If you decide you want more signal than you get with a Turnstile, it would
> be easy to build a 900 MHz Helix or Crossed Yagii.
> It seems very important to use a Circularly Polarized antenna at the
> ground station.
>
>   Jerry

I am familiar with the Helix antenna and the Yagi, but not a "crossed yagi." Am I correct in assuming that the crossed yagi is simply two yagis with the reflectors at right angles to each other (so that it looks like a cross when viewed from the end)?

Directionality on the ground station is an issue though. Once the rocket goes out of sight (it was only visible for about three seconds of a nine minute flight), pointing the receiving antenna in the right direction and elevation would be guess work. I know that the yagi must be much more directional than the 1/2 wave dipole used before but how much I do not know. I would imagine it is determined by the number and spacing of the elements. I also think that having the transmitting antenna more perpendicular to the airfame will help during apogee and descent.

Curt

3298. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 19:41:22 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <CphSI.443$9L2.64@nwrddc02.gnilink.net>
Source record: 15272

"mr1956" <mr1956@comcast.net> wrote in message
news:8cba12a7-aa18-45a5-a4b5-5a3811851459@z7g2000vbh.googlegroups.com...
On May 24, 2:59 pm, "Jerry" <jerrymar...@verizon.net> wrote:
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> > have would need only 6 dB improvement to provide the 20 mile range.
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> > Jerry KD6JDJ (who has lots of small
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> Jerry:
>
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> standard 1/2 wave dipole attached using an sma connector. The
> receiver is battery powered and connected to a laptop using a standard
> serial cable. We had thought about using a Yagi during the previous
> flight but it just got left by the wayside with everything else that
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> Aerospace (Erik Hall) but uses a Digi Int. 9Xstream radio modem
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> radio and Garmin GPS with a small Li-Ion battery pack. But that system
> was "lost" during a not so successful flight in Texas a few years ago.
> Hence, for this design I opted to buy something off the shelf that
> already worked.
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> Most people using this system have fiberglass airframes so for them it
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> telemetry board made so I could connect my own antenna. FYI, the
> rocket is 15 feet long, 6" in diameter and weighs over 100 lbs empty
> and close to 200 lbs. on the pad. It is all aluminum, except for the
> nose cone which is laminated birch. I'm using metal for the airframe
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> The published range for this Digi Int. transmitter is 20 miles, though
> people doing amateur high-altitude balloon flights have reportedly
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> feet). This rocket did about 85,000 feet last September at Black Rock,
> Nevada so it is doubtful that we will get GPS data at apogee anyway
> due to the COTS limitations. But I'd like to get as much as possible
> and will probably eventually convert to the 9Xtend modem which goes up
> to one watt xmit power.
>
> Curt
>
> Hi Curt
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> rocket. There is a possibility that you hadnt optimized the pointing of
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> stub on the base station. You might be able to get enough system gain by
> using a simple Turnstile Antenna at the ground station (Wikipedia).
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> be easy to build a 900 MHz Helix or Crossed Yagii.
> It seems very important to use a Circularly Polarized antenna at the
> ground station.
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> Jerry

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of a nine minute flight), pointing the receiving antenna in the right
direction and elevation would be guess work. I know that the yagi must
be much more directional than the 1/2 wave dipole used before but how
much I do not know. I would imagine it is determined by the number and
spacing of the elements. I also think that having the transmitting
antenna more perpendicular to the airfame will help during apogee and
descent.

Curt

Hi Curt

I figured that your current telemetry system is demonstrated to be nearly
good enough. From the info I now have, it seems that you need only 6 db
additional gain to be able to double the distance between the rocket and the
ground station. Since you used linear polarization on both the rocket and
the ground station, it is possible that you will get adequate signal by
making the base station antenna "Circular".
If the rocket accends to 20 miles and the ground station is close to the

place where the rocket started, the apogee point could be 2 miles from "straight up" and still be less than 5.7 degrees from straight up. I'd suggest using a base antenna with a pattern much wider than 11 1/2 degrees so the antenna needs to be pointed up, not aimed.
I'd expect there are other rocket amateurs using simple Turnstile Antennas for their base station antenna.

Jerry KD6JDJ

3299. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 19:57:41 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <58b4b7d7-74dd-4e43-9873-4a91206f130a@t11g2000vbc.googlegroups.com>
Source record: 15273

On May 24, 3:41 pm, "Jerry" <jerrymar...@verizon.net> wrote:
> "mr1956" <mr1...@comcast.net> wrote in message
>
> news:8cba12a7-aa18-45a5-a4b5-5a3811851459@z7g2000vbh.googlegroups.com...
> On May 24, 2:59 pm, "Jerry" <jerrymar...@verizon.net> wrote:
>
>
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> > > Hi C
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> > Jerry:
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> > is a simple matter to use a commercially available antenna mounted
> > inside of the airfame. But this is an all metal design so I had the
> > telemetry board made so I could connect my own antenna. FYI, the

> > rocket is 15 feet long, 6" in diameter and weighs over 100 lbs empty
> > and close to 200 lbs. on the pad. It is all aluminum, except for the
> > nose cone which is laminated birch. I'm using metal for the airframe
> > because it just easier to work with and the first 8 feet of the rocket
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> > It seems very important to use a Circularly Polarized antenna at the
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> I am familiar with the Helix antenna and the Yagi, but not a "crossed
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> additional gain to be able to double the distance between the rocket and the
> ground station. Since you used linear polarization on both the rocket and
> the ground station, it is possible that you will get adequate signal by
> making the base station antenna "Circular".
> If the rocket accends to 20 miles and the ground station is close to the
> place where the rocket started, the apogee point could be 2 miles from
> "straight up" and still be less than 5.7 degrees from straight up. I'd
> suggest using a base antenna with a pattern much wider than 11 1/2 degrees
> so the antenna needs to be pointed up, not aimed.
> I'd expect there are other rocket amateurs using simple Turnstile Antennas
> for their base station antenna.
>
> Jerry KD6JDJ

Jerry:

By "circular" I assume you mean either a helix or crossed yagi so that the receiving angle is uniform around the axis of the antenna?

Your assumptions are pretty close. The launch pad was about 1.25 miles from the ground station (to the north I think) and the rocket landed about 2.5 miles east of the receiving station. If I remember correctly, we got a good link down to about 4,000 feet during the descent on parachute. So if I fabricate or purchase an antenna with a sufficient receiving pattern, point it generally up but maybe slightly towards the pad, it should work. We were lucky that day as the winds aloft were not too bad. In addition, the rocket comes down fast, at about 75 feet/second so as to minimize drift. Everything was built for strength because I knew it would hit pretty hard.

Let em play with some of the online calculators and see if I can come up with a helix design and do some searching for a crossed yagi.

Curt

3300. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-24 21:49:16 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C164F8FC3824nonenowhere@61.9.191.5>
Source record: 15274

mr1956 <mr1956@comcast.net> wrote in
news:def6a6e7-b16a-41f5-8fbb-58c4d2d0ea2a@n4g2000vba.googlegroups.com:

...
>
> I have been reading the ARRL antenna book and while there is much
> information, a lot of it is over my head. But one point I think a
> chapter makes is that a 1/4 wave monopole will work better than a 1/2
> wave using an artificial ground plane because of the way the voltage
> peaks at the end of the antenna; or that is how it seems.

Your transmitter is designed for a particular load impedance, almost
certainly 50 ohms... check the specs.

The load presented to the transmitter terminals depends on the feed point
impedance of the antenna, and impedance transformation that may occur on
the coaxial feedline.

In the case you describe, the *antenna system* design was most unsuited
to a 50 ohm transmitter, hence the considerable loss predicted.

Your newer proposal for a quarter wave wire perpedicular to the rocket
body with the coax shield connected to the metallic rocket body is not
exactly 50 ohms, but probably close enough that antenna system efficiency
will be fairly good and the transmitter should deliver most of its rated
power.

Owen

3301. 4:1 Balun

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 01:01:19 UTC
From: dykesc <cupstidd@bellsouth.net>
Message-ID: <f66c9568-793c-4b94-ad1c-c811c07843b9@a7g2000yqk.googlegroups.com>
Source record: 15275

Having read Sevic's book I am building the 4:1 Guanella balun on a SINGLE toroidial core. My question relates to the direction of winding for the two biflar windings that are required. The windings are connected in parallel on the low impedance end and in series on the high impedance end. The text speaks to the need to make connections such that they are series aiding. Do I need to wind one biflar pair in a clockwise direction and the other in a counterclockwise direction to achieve this if I want only parallel connections on one end and series connections on the other? I hope somebody has the book to look at the 4:1 Guanella configuration.

3302. Re: 4:1 Balun

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 01:33:44 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C16759E5BEE0nonenowhere@61.9.191.5>
Source record: 15276

dykesc <cupstidd@bellsouth.net> wrote in news:f66c9568-793c-4b94-ad1c-c811c07843b9@a7g2000yqk.googlegroups.com:

> Having read Sevic's book I am building the 4:1 Guanella balun on a
> SINGLE toroidial core. My question relates to the direction of winding
> for the two biflar windings that are required. The windings are
> connected in parallel on the low impedance end and in series on the
> high impedance end. The text speaks to the need to make connections
> such that they are series aiding. Do I need to wind one biflar pair in
> a clockwise direction and the other in a counterclockwise direction to
> achieve this if I want only parallel connections on one end and series
> connections on the other? I hope somebody has the book to look at the
> 4:1 Guanella configuration.
>

The article at http://www.vk1od.net/balun/gsc/index.htm might help to clarify the terminology, and show you that a 4:1 Guanella balun on a single core will not work properly.

Owen

3303. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 02:01:17 UTC
From: Mike Coslo <mjc5@psu.edu>
Message-ID: <gvcu5c$bk1e$1@tr22n12.aset.psu.edu>
Source record: 15277

Dr. Barry L. Ornitz wrote:

> The ONLY effect that radio frequencies can do to humans is thermal.
> You have to increase the frequencies to the upper visible region
> (blue since we are talking frequency rather than wavelength) before
> there is any ionizing radiation. Note, however, that thermal effects
> can be damaging.

I had posted some links here some months back about the other effects of rf. Seems there is a little more than just heating going on. I have noticed that the heating effect I "feel" on extended cell phone use is not actual heat.

Interestingly, most cell phone fear is based on cancer. It's not hardly likely, for the reasons already outlined.

The biggest danger to cell phone towers is if one falls on you.

I'll not go so far as to say that there are no effects however. I suspect something is happening that we might not know about at this time - and there is some tantalizing evidence showing in some of the research.

- 73 de Mike N3LI -

3304. Re: 4:1 Balun

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 02:23:20 UTC
From: dykesc <cupstidd@bellsouth.net>
Message-ID: <b770bfd5-73ce-4e38-b489-918648dc5610@h2g2000yqg.googlegroups.com>
Source record: 15278

On May 24, 8:33 pm, Owen Duffy <n...@no.where> wrote:

> The article athttp://www.vk1od.net/balun/gsc/index.htmmight help to
> clarify the terminology, and show you that a 4:1 Guanella balun on a single
> core will not work properly.
>
> Owen

Thanks for quick reply Owen. Guess I took the Sevick single toroid
design as authoritative. I will move to a 2 core configuration, which,
in my case, is more intuitive to begin with. Also bookmarked your
page. Good stuff!

Dykes
AD5VS

3305. Re: 4:1 Balun

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 02:37:43 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C1680779BC0Enonenowhere@61.9.191.5>
Source record: 15279

dykesc <cupstidd@bellsouth.net> wrote in
news:b770bfd5-73ce-4e38-b489-918648dc5610@h2g2000yqg.googlegroups.com:

> On May 24, 8:33 pm, Owen Duffy <n...@no.where> wrote:
>
>> The article athttp://www.vk1od.net/balun/gsc/index.htmmight help to
>> clarify the terminology, and show you that a 4:1 Guanella balun on a
>> sing
> le
>> core will not work properly.
>>
>> Owen
>
> Thanks for quick reply Owen. Guess I took the Sevick single toroid
> design as authoritative. I will move to a 2 core configuration, which,
> in my case, is more intuitive to begin with. Also bookmarked your
> page. Good stuff!

Dykes,

Oh well, lots of people have built them and assert that they "work", but
that goes to the meaning of "works" more than anything.

I think there are even commercial single core implementations of
Guanella's 4:1 balun, but then there is a lot of snake oil in that
industry!

If you make one on a medium core and measure it, it is clear that it
doesn't "work" where "work" means that the currents in the output leads
are approximately equal but opposite in direction.

Owen

3306. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 02:58:13 UTC
From: ve2pid <ve2pid@videotron.ca>
Message-ID: <17a41ee5-5dbf-44fa-b231-41334dd23dfe@y9g2000yqg.googlegroups.com>
Source record: 15280

On May 21, 10:28 am, ve2pid <ve2...@videotron.ca> wrote:
> Hi to all,
>
> Just got my new ATU. The specs mentionned:
>
> Tunes 6 to 600 ohms (about 10:1 SWR range). 16 to 150 on 6M (about
> 3:1)
>
> It sems that this is the standardized (?) way to mention
> specifications...
>
> But, since impedances have both a resistive and reactive compoment,
> doses it means 6 to 600 Ohms "resistive"?
>
> For example , if Z= 500-J800 ohm, is it 'tunable'? I have a doubt
> because the impedance could also mean sqrt(500^2+800^2)=943,4 Ohms..
>
> Thanks de Pierre ve2...@videotron.ca

FYI finally got the answer from LDG:

It's polar coordinates (as opposed to rectangular).

For example: 200 -j300 in rectangular would have a magnitude of 360 in
polar.

I think we were the first company to ever publish tuning specs for
autotuners
and I happen to choose polar that day, so that's what everyone else
uses now for
autotuners.

It's just an approximate number, but it gives you a rough idea of what
to
expect. If you find that your long wire (for example) has an impedance
of 2500
ohms (either measured or simulated), you can be pretty sure that our
tuner is
not going to tune it.

So, I deduct 600 Ohms could mean any impedance A+JB where sqrt
(A^2+b^2)=600. ;-) ....

3307. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 03:49:59 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <4b4k15dmdq0anelhv8tn8cccbin5ac4b7c@4ax.com>
Source record: 15281

On Sun, 24 May 2009 22:01:17 -0400, Mike Coslo <mjc5@psu.edu> wrote:

>The biggest danger to cell phone towers is if one falls on you.

Nope. There are other dangers:
<http://802.11junk.com/jeffl/pics/drivel/monopoleBurn.jpg>
<http://www.bext.com/_CGC/pictures/celltowerfire.jpg>
<http://weepnews.blogspot.com/2009/01/cell-tower-burned-down.html>
No, it's not RF induced heating. It's always the same story. Some
idiot with a welding rig decides to work on the tower and sets fire to
the coax cables inside the tower.

Need some entertainment? Just set fire to some LMR-400 or some CAT5
cable. Burns quickly and quite nicely. Ummm... do it outside.

>I'll not go so far as to say that there are no effects however. I
>suspect something is happening that we might not know about at this time
>- and there is some tantalizing evidence showing in some of the research.

Yep. The standard ending for any research paper is "More research is
needed".

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3308. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 16:36:37 UTC
From: Tom Horne <hornetd@verizon.net>
Message-ID: <pOzSl.634$9L2.19@nwrddc02.gnilink.net>
Source record: 15282

noname wrote:
> Thanks for the replies, Dave, Rick, and Jim. Since my ideas didn't go
> over so well, perhaps it's best to just describe my setup and then
> listen to any suggestions. Since I'm not an electrical engineer, do
> try to keep things simple.
>
> As I said earlier, the radio and speaker are both connected to the
> house ground through their power cords. I've also installed an
> inverted V dipole in the back yard (the only place it will fit). The
> center (feedpoint) of the antenna is attached to the roof on the
> second floor (about twenty feet above the ground) and the two ends run
> out to the two corners of the backyard. That's the best I can
> accomplish given local antenna restrictions.
>
> My house is located on a hill with a top floor entrance and living
> area. Below that is another floor level with the backyard, with a
> basement below that.
>
> The radio will be located in the living room on the top floor, again
> one floor above the backyard. The coax (RG-8X) will run out a window
> on the second floor to the center (feedpoint) of the antenna attached
> to the roof just outside (a run of roughly 15-ft).
>
> Now, where (if any) should I add grounding to that setup? I was going
> to add a lightning arrester to the coax just before it enters the
> house (fed into two ground rods), but will forego that since none seem
> overly thrilled about the idea.
>
> By the way, a Yeasu technician once recommended salting ground rods to
> resolve a poor grounding situation at the time, so I've been doing
> that ever since (can't hurt), especially during the dry summer months.
> Adding water is pretty obvious, so didn't think I needed to spell that
> out, Dave.
>
> stewart / w5net

Dave

I'm not an engineer either but I have installed ridge top communications shelters from the Argentine Pampas to Alaska without having lightning caused down time for the communications equipment that the shelters contained. You need a single point of ground connection in the shack. One of the best ones to have is an antenna entry bulkhead made of some stout aluminum or copper plate. You then run all of the connections that serve your equipment through or past that bulkhead. You also mount

all of your protectors on or at that bulkhead. From the outside of the bulkhead you run a ribbon conductor down to the Grounding Electrode that you install as close to directly below the bulkhead as you can.

If the electrode will be driven rods then buy yourself several rod couplers to permit you to drive the rods to a depth below the permanent moisture level. The driving is best accomplished by renting an electric demolition hammer and a ground rod cup. You will need some means to measure the grounding electrode resistance to earth. You can rent a three pole or four pole ground impedance tester or a much easier to use clamp on ground loop impedance tester. You want the total impedance of the Grounding Electrode System to be less then twenty five ohms and the lower you get it the better off you are. If you drive four or five rods on top of each other then you will have reached between thirty two and fifty feet into the earth. In most cases you will strike hard pan or rock before that depth and thus will have to drive additional rods. If your first stacked rod does not get you down to twenty five ohms or less you just drive a second stacked rod at least the length of the first rod away from the first rod. Once you have the Grounding Electrode down to twenty five ohms or less you bond it to the electrical grounding electrode using a number four or larger copper conductor that is run entirely outside the builidng.

For best protection you would run the bonding conductor in the form of a partial ground ring consisting of a number two copper conductor buried in trench that is thirty inches deep and runs from the one electrode to the other around the outside of the home.

If your home is new enough to have a concrete encased electrode for it's power ground then it may be possible to bond to it by bonding to one end of any steel beam that was used in the floor support at the basement ceiling. If the electrician was competent the beam will be bonded to the concrete encased electrode. You will have to check carefully to assure that it is so bonded.

It is terribly unlikely that your home has a true Ufer ground because constructing one involves a mesh of half inch or larger rebar that is continuous throughout the basement floor and foundation footers with all junctions double tied and one piece of rebar turned up out of the floor at the location of the electrical service equipment.

If your not willing to do all of that; and most hams are not; you will have to choose how much to do. The bulkhead, a one inch braid Grounding Electrode Conductor, two eight foot driven rods at least their own length apart, and the number four bonding conductor to bond those to the electrical service ground is the minimum for lightning protection. Anything less is a feel good waste of time.
--
Tom Horne

"This alternating current stuff is just a fad. It is much too dangerous for general use." Thomas Alva Edison

3309. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 16:39:20 UTC
From: Tom Horne <hornetd@verizon.net>
Message-ID: <YQzSl.635$9L2.140@nwrddc02.gnilink.net>
Source record: 15283

dave wrote:
> Jim Lux wrote:
>
>
>> Do you use a balun at the antenna
>>> feedpoint? How do you tune the inverted-V?
>>
>> Good RF chokes on the coax at the feedpoint and at the point of entry
>> would go a long way to eliminating any "RF in the shack" problems. A
>> couple 2.4" 31 mix cores with half a dozen turns on them, for instance.
>>
>> Whether the V is tuned or not won't have any effect on RFI or grounding.
>
> A BalUn would help a lot.
>
> Since we are sticklers for the NEC, Homey needs a #6 wire from where the
> transmission line enters the dwelling to an 8' copper clad rod driven
> into the earth, as close as practicable.
>
>

and bonded from their to the electrical service grounding electrode
system with a number four or larger conductor.
--
Tom Horne

"This alternating current stuff is just a fad. It is much too dangerous
for general use." Thomas Alva Edison

3310. Re: Station With Center-Fed Dipole - Best Grounding Technique?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 16:45:58 UTC
From: Tom Horne <hornetd@verizon.net>
Message-ID: <aXzSl.638$9L2.409@nwrddc02.gnilink.net>
Source record: 15284

Jim Lux wrote:
> Jon Kï¿½re Hellan LA4RT wrote:
>> Jim Lux <james.p.lux@jpl.nasa.gov> writes:
>>
>>> dave wrote:
>>>> Jim Lux wrote:
>>>>
>>>>
>>>>> Do you use a balun at the antenna
>>>>>> feedpoint? How do you tune the inverted-V?
>>>>> Good RF chokes on the coax at the feedpoint and at the point of
>>>>> entry would go a long way to eliminating any "RF in the shack"
>>>>> problems. A couple 2.4" 31 mix cores with half a dozen turns on
>>>>> them, for instance.
>>>>>
>>>>> Whether the V is tuned or not won't have any effect on RFI or
>>>>> grounding.
>>>> A BalUn would help a lot.
>>> Balun/choke.. tomato, tomato.. they're really all the same thing.
>>> Keep the RF off the outside of the coax.
>>>
>>>
>>>> Since we are sticklers for the NEC, Homey needs a #6 wire from where
>>>> the transmission line enters the dwelling to an 8' copper clad rod
>>>> driven into the earth, as close as practicable.
>>
>> Turns out he's located in Germany, so U.S. codes aren't particularly
>> relevant. If anything, German codes are probably stricter. But almost
>> certainly different.
>>
>> Jon LA4RT
>>
>
> Yes indeed. It's not like there's any universal consistency in the U.S.
> either.
>
> I recommend IEEE Std 1100 for people who really care. (and it is an
> international standard, so it addresses most of the regulatory issues
> regardless of location)

Is there anyway to read that standard without spending serious money.
--
Tom Horne

"This alternating current stuff is just a fad. It is much too dangerous for general use." Thomas Alva Edison

3311. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 16:48:23 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <ae669100-2c14-4f11-9d92-80257717dc19@v4g2000vba.googlegroups.com>
Source record: 15285

On May 24, 5:49 pm, Owen Duffy <n...@no.where> wrote:
> mr1956 <mr1...@comcast.net> wrote
innews:def6a6e7-b16a-41f5-8fbb-58c4d2d0ea2a@n4g2000vba.googlegroups.com:
>
> ...
>
>
>
> > I have been reading the ARRL antenna book and while there is much
> > information, a lot of it is over my head. But one point I think a
> > chapter makes is that a 1/4 wave monopole will work better than a 1/2
> > wave using an artificial ground plane because of the way the voltage
> > peaks at the end of the antenna; or that is how it seems.
>
> Your transmitter is designed for a particular load impedance, almost
> certainly 50 ohms... check the specs.
>
> The load presented to the transmitter terminals depends on the feed point
> impedance of the antenna, and impedance transformation that may occur on
> the coaxial feedline.
>
> In the case you describe, the *antenna system* design was most unsuited
> to a 50 ohm transmitter, hence the considerable loss predicted.
>
> Your newer proposal for a quarter wave wire perpedicular to the rocket
> body with the coax shield connected to the metallic rocket body is not
> exactly 50 ohms, but probably close enough that antenna system efficiency
> will be fairly good and the transmitter should deliver most of its rated
> power.
>
> Owen

What I have been finding out is developing a matching circuit for the
output of the transmitter is not easy, at least for me and at that
frequency. It could be done if I was a cell phone manufacturer. I
think much will be gained by using the 1/4 wave as opposed to the 1/2
wave on the airframe and a yagi or helix antenna on the ground
station.

I will post a link to some images of the project when I have time.
Information on the flight can be found at www.lokiresearch.com and
look for information about the Proteus 6 flight at the Balls 17 event,
Black Rock, NV September 2008.

I'll also add some thoughts about how I intend to proceed based on everyone's great input from this forum. One quick question: Am I correct in assuming that the ground lead of the rocket mounted antenna should be as short as possible? i.e., the connection between the shield of the RG-178 and the metal airframe.

Thanks,

Curt

3312. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 16:57:23 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <jejl1554ghcno2jnilfdtqjal6jthfm3hb@4ax.com>
Source record: 15286

On Mon, 25 May 2009 09:48:23 -0700 (PDT), mr1956 <mr1956@comcast.net>
wrote:

>One quick question: Am I
>correct in assuming that the ground lead of the rocket mounted antenna
>should be as short as possible? i.e., the connection between the
>shield of the RG-178 and the metal airframe.

Very much so - mm instead of inches.

73's
Richard Clark, KB7QHC

3313. Re: ATU: Correct way to specify impedance range

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 17:23:30 UTC
From: You <you@shadow.orgs>
Message-ID: <you-2E06AB.09230025052009@news.starband.net>
Source record: 15287

In article
<17a41ee5-5dbf-44fa-b231-41334dd23dfe@y9g2000yqg.googlegroups.com>,
ve2pid <ve2pid@videotron.ca> wrote:

> I think we were the first company to ever publish tuning specs for
> autotuners
> and I happen to choose polar that day, so that's what everyone else
> uses now for
> autotuners.
>

Unless you published your specs over 20 years ago, Motorola was the
first one to publish Tuning Range Specs, for their Second Generation
Autotuner, back when Bill Shielb was Chief Engineer for the MF/HF SSB
Engineering Group......

Most of the Modern Day Binary Lumped Constant AutoTuners are based on
his work at Motorola, which he brought out west, when he came to
Northern Radio Co., and then finally to Berlonix Corp. The SEA-1600
by SEA, (Stephens Engineering Assoc.) was a reverse engineered AutoTuner
based on Bills work, done my Mark Johnson and Bill Forgey at SEA, but
with a much improved Microprocessor Control algorithm, Phase and Power
Sensors, and spawned a long Series of SEA16xx Autotuners, of which the
SEA1612B was the most recognized, and the SGC Tuners were copies.

3314. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 21:26:48 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C174BC0B49Bnonenowhere@61.9.191.5>
Source record: 15288

mr1956 <mr1956@comcast.net> wrote in
news:ae669100-2c14-4f11-9d92-80257717dc19@v4g2000vba.googlegroups.com:

...
>
> What I have been finding out is developing a matching circuit for the
> output of the transmitter is not easy, at least for me and at that
> frequency. It could be done if I was a cell phone manufacturer. I
> think much will be gained by using the 1/4 wave as opposed to the 1/2
> wave on the airframe and a yagi or helix antenna on the ground
> station.

The easy solution is the one I suggested.

>
> I will post a link to some images of the project when I have time.
> Information on the flight can be found at www.lokiresearch.com and
> look for information about the Proteus 6 flight at the Balls 17 event,
> Black Rock, NV September 2008.
>
> I'll also add some thoughts about how I intend to proceed based on
> everyone's great input from this forum. One quick question: Am I
> correct in assuming that the ground lead of the rocket mounted antenna
> should be as short as possible? i.e., the connection between the
> shield of the RG-178 and the metal airframe.

Loss on the coax can be much worse when it is mismatched. I gave you
figures for a 2000 ohm load (representing your end fed half wave antenna).

The loss for 0.3m with a 30 ohm load is 0.5dB, it is 90% efficient. If you
shorten it, you will reduce the loss, but I wouldn't obsess over it. The
problem you have right now is due principally to high standing waves on the
line and unsuitable transmitter load, and you solve much of that using a
quarter wave antenna.

Without a diagram, we are at great risk of misunderstanding. If you cannot
affort the time to invest in making a drawing, you take the risk of
misinterpretation of your words. The connection from the shield to the
metal air frame and presumably metal skin should be short. Regard that the
effective length of the antenna in that case is the distance from the
shield to the tip of the whip.

Owen

3315. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-25 23:40:38 UTC
From: mr1956 <mr1956@comcast.net>
Message-ID: <3c28dd60-ab90-453a-b7e4-45233e0e60f0@p4g2000vba.googlegroups.com>
Source record: 15289

On May 25, 5:26 pm, Owen Duffy <n...@no.where> wrote:
> mr1956 <mr1...@comcast.net> wrote
innews:ae669100-2c14-4f11-9d92-80257717dc19@v4g2000vba.googlegroups.com:
>
> ...
>
>
>
> > What I have been finding out is developing a matching circuit for the
> > output of the transmitter is not easy, at least for me and at that
> > frequency. It could be done if I was a cell phone manufacturer. I
> > think much will be gained by using the 1/4 wave as opposed to the 1/2
> > wave on the airframe and a yagi or helix antenna on the ground
> > station.
>
> The easy solution is the one I suggested.
>
>
>
> > I will post a link to some images of the project when I have time.
> > Information on the flight can be found atwww.lokiresearch.comand
> > look for information about the Proteus 6 flight at the Balls 17 event,
> > Black Rock, NV September 2008.
>
> > I'll also add some thoughts about how I intend to proceed based on
> > everyone's great input from this forum. One quick question: Am I
> > correct in assuming that the ground lead of the rocket mounted antenna
> > should be as short as possible? i.e., the connection between the
> > shield of the RG-178 and the metal airframe.
>
> Loss on the coax can be much worse when it is mismatched. I gave you
> figures for a 2000 ohm load (representing your end fed half wave antenna).
>
> The loss for 0.3m with a 30 ohm load is 0.5dB, it is 90% efficient. If you
> shorten it, you will reduce the loss, but I wouldn't obsess over it. The
> problem you have right now is due principally to high standing waves on the
> line and unsuitable transmitter load, and you solve much of that using a
> quarter wave antenna.
>
> Without a diagram, we are at great risk of misunderstanding. If you cannot
> affort the time to invest in making a drawing, you take the risk of
> misinterpretation of your words. The connection from the shield to the
> metal air frame and presumably metal skin should be short. Regard that the
> effective length of the antenna in that case is the distance from the

> shield to the tip of the whip.
>
> Owen

OK, I think I know generally how to proceed from here. FYI, some images of the previous design can be found at the following URLs:
http://i647.photobucket.com/albums/uu199/mr1956_2009/Curtjeff.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/liftoff.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/Coupler02.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/Elec05.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/Recovery04small.jpg

This one is an image of the type of gear I normally work with:
http://i647.photobucket.com/albums/uu199/mr1956_2009/Guam02004.jpg

So the key points are as follows:

1. Fabricate a 1/4 wave antenna and mount that is totally exterior to the metal airfame and terminate the coax as close as possible to the antenna.
2. I imagine that I could start off with a longer than needed whip antenna, then trim it back while taking measurements with the RF millivolt meter until it looks like I've gotten maximum signal strength.
3. Use either a helix or yagi receiving antenna on the ground station to boost the signal strength on the receiving end.

I accept that words alone are not always sufficient to describe such things but I think the important issues have been well described by everyone here. I can only make the RG-178 whip connecting the transmitter to the antenna so short, as I need sufficient length to remove the electronics from inside of the avionics compartment to change batteries,etc. But I think the critical issues are having a direct and solid electrical connection between the antenna and coax and using a higher db antenna on the receiving end; the ground based antenna may make the most difference in the end.

I'll have to go back and look at the posts to make sure I've gotten all of the information right and if anyone has any more questions after reviewing the images please let me know and I will respond as needed. Also, there should be an article coming out in Smithsonian Air & Space magazine in the "Above and Beyond" section sometime in the future describing this particular flight and more information is online at www.lokiresearch.com (the Proteus 6 flight).

Curt

3316. Re: Piano Wire Antenna for Experimental Rocket

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-26 11:51:05 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvgbvc$44q$1@node1.news.atman.pl>
Source record: 15290

"mr1956" <mr1956@comcast.net> wrote
news:3c28dd60-ab90-453a-b7e4-45233e0e60f0@p4g2000vba.googlegroups.com...
On May 25, 5:26 pm, Owen Duffy <n...@no.where> wrote:
> mr1956 <mr1...@comcast.net> wrote
> innews:ae669100-2c14-4f11-9d92-80257717dc19@v4g2000vba.googlegroups.com:
>
>
> > What I have been finding out is developing a matching circuit for the
> > output of the transmitter is not easy, at least for me and at that
> > frequency. It could be done if I was a cell phone manufacturer. I
> > think much will be gained by using the 1/4 wave as opposed to the 1/2
> > wave on the airframe and a yagi or helix antenna on the ground
> > station.
>
> The easy solution is the one I suggested.
>
>
>
> > I will post a link to some images of the project when I have time.
> > Information on the flight can be found atwww.lokiresearch.comand
> > look for information about the Proteus 6 flight at the Balls 17 event,
> > Black Rock, NV September 2008.
>
> > I'll also add some thoughts about how I intend to proceed based on
> > everyone's great input from this forum. One quick question: Am I
> > correct in assuming that the ground lead of the rocket mounted antenna
> > should be as short as possible? i.e., the connection between the
> > shield of the RG-178 and the metal airframe.
>
> Loss on the coax can be much worse when it is mismatched. I gave you
> figures for a 2000 ohm load (representing your end fed half wave antenna).
>
> The loss for 0.3m with a 30 ohm load is 0.5dB, it is 90% efficient. If you
> shorten it, you will reduce the loss, but I wouldn't obsess over it. The
> problem you have right now is due principally to high standing waves on
> the
> line and unsuitable transmitter load, and you solve much of that using a
> quarter wave antenna.
>
> Without a diagram, we are at great risk of misunderstanding. If you cannot
> affort the time to invest in making a drawing, you take the risk of
> misinterpretation of your words. The connection from the shield to the
> metal air frame and presumably metal skin should be short. Regard that the
> effective length of the antenna in that case is the distance from the

> shield to the tip of the whip.
>
> Owen

>OK, I think I know generally how to proceed from here. FYI, some
images of the previous design can be found at the following URLs:
http://i647.photobucket.com/albums/uu199/mr1956_2009/Curtjeff.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/liftoff.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/Coupler02.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/Elec05.jpg
http://i647.photobucket.com/albums/uu199/mr1956_2009/Recovery04small.jpg

>This one is an image of the type of gear I normally work with:
http://i647.photobucket.com/albums/uu199/mr1956_2009/Guam02004.jpg

>So the key points are as follows:

>1. Fabricate a 1/4 wave antenna and mount that is totally exterior to
the metal airfame and terminate the coax as close as possible to the
antenna.
>2. I imagine that I could start off with a longer than needed whip
antenna, then trim it back while taking measurements with the RF
millivolt meter until it looks like I've gotten maximum signal
strength.
>3. Use either a helix or yagi receiving antenna on the ground station
to boost the signal strength on the receiving end.

>I accept that words alone are not always sufficient to describe such
things but I think the important issues have been well described by
everyone here. I can only make the RG-178 whip connecting the
transmitter to the antenna so short, as I need sufficient length to
remove the electronics from inside of the avionics compartment to
change batteries,etc. But I think the critical issues are having a
direct and solid electrical connection between the antenna and coax
and using a higher db antenna on the receiving end; the ground based
antenna may make the most difference in the end.

>I'll have to go back and look at the posts to make sure I've gotten
all of the information right

You miss the most important. Helmut wrote "Do not use too thin wires, the
thicker the better."

>and if anyone has any more questions
after reviewing the images please let me know and I will respond as
needed. Also, there should be an article coming out in Smithsonian Air
& Space magazine in the "Above and Beyond" section sometime in the
future describing this particular flight and more information is
online at www.lokiresearch.com (the Proteus 6 flight).
S*

3317. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-26 19:49:36 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvhh4g$do4k$1@tr22n12.aset.psu.edu>
Source record: 15291

Jeff Liebermann wrote:
> On Sun, 24 May 2009 22:01:17 -0400, Mike Coslo <mjc5@psu.edu> wrote:
>
>> The biggest danger to cell phone towers is if one falls on you.
>
> Nope. There are other dangers:
> <http://802.11junk.com/jeffl/pics/drivel/monopoleBurn.jpg>
> <http://www.bext.com/_CGC/pictures/celltowerfire.jpg>
> <http://weepnews.blogspot.com/2009/01/cell-tower-burned-down.html>
> No, it's not RF induced heating. It's always the same story. Some
> idiot with a welding rig decides to work on the tower and sets fire to
> the coax cables inside the tower.

Reminds me of one Field Day we were doing some SSTV. Fellow on the other end tells me he's going to send me a really "hot picture". A few of the SST pix I've seen aren't quite family friendly, so I tell him to be careful, since we had kids around. He says, "No problem, but th epicture is really hot - I have to warn ya".

Sure enough, the picture he sent was of a Microwave tower burning.

- 73 de Mike N3LI -

3318. Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-26 19:58:10 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvhhkj$do4m$1@tr22n12.aset.psu.edu>
Source record: 15292

I'm starting up an old project that I never quite finished - my loop antenna.

When I first put it together, I tried a simple loop of coax to couple the radio to the loop. Was never really satisfied with that though.

I'm wanting to try a gamma match, possibly something a little like what Owen Duffy posted a nice version of.

The Gamma match is fairly understandable to me, and I expect it to work well.

What I am wondering about is in the coax loop coupling system, how is the best match obtained? Loop size? orientation? Luck?

- 73 de Mike N3LI -

3319. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-26 20:14:55 UTC
From: Christen Fihl <look_at_HSPascal.fihl.net@nospam.plz>
Message-ID: <4a1c4dbf$0$56770$edfadb0f@dtext02.news.tele.dk>
Source record: 15293

Last I tried a loop, I used a simple wire loop of about 10 cm diameter
(for a 1 m antenna diameter).

The coax version might save you some noise when receiving, but I never
tried coax myself, I use solid tubes.
For transmitting, coax or not should make no difference.

I do have an antenna tuner for the plain dipol. For the loop, you never
use antenna tuner.

For tuning the loop for transmitting, I find it easy to make the
coupling loop variable in size, and just try smaller/large loops, and
then fix the size when satisfied

Christen
oz1aab

3320. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-26 20:52:03 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C1845DC4D8D1nonenowhere@61.9.191.5>
Source record: 15294

Michael Coslo <mjc5@psu.edu> wrote in news:gvhhkj$do4m$1
@tr22n12.aset.psu.edu:

> I'm starting up an old project that I never quite finished - my loop
> antenna.
>
> When I first put it together, I tried a simple loop of coax to couple
> the radio to the loop. Was never really satisfied with that though.
>
> I'm wanting to try a gamma match, possibly something a little like what
> Owen Duffy posted a nice version of.
>
> The Gamma match is fairly understandable to me, and I expect it to work
> well.
>
> What I am wondering about is in the coax loop coupling system, how is
> the best match obtained? Loop size? orientation? Luck?

Mike, you haven't given much information about the loop (size,
frequency). Is loop balance / symmetry important?

If it was a small loop, I would not be thinking about a gamma match
because of the impedance ratios for just one reason.

Owen

3321. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-26 23:40:38 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvhulf$oq4$1@news.service.uci.edu>
Source record: 15295

Cecil Moore wrote:
> Jim Kelley wrote:
>> So now you minimize the fact that you argued vehemently with everyone
>> for endless months over your malformed ideas about how energy moves in
>> impedance matching systems.
>
> I apologized over a year ago and changed my article.

Changed your article, yes. Apology, not as such.

> There was nothing wrong with the ideas and concepts
> which have always been valid. The problem was with
> the definitions of the words I was using, i.e. 100%
> semantic.

Most of your ideas and concepts were of course correct, Cecil. Your conceptual problem was pretty much as I said: that interference causes northbound cars to travel southbound, and southbound cars to travel northbound. It provided you with justification for adding, subtracting, and superposing average power at will. It was related to the belief you adopted about waves causing other waves to do things. You insisted that it had to be so, otherwise energy would not be conserved. Fortunately for the universe, energy was conserved despite your insistence. So it wasn't merely a difference over semantics. That would have been an even greater waste of time.

ac6xg

3322. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 03:29:07 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <b%gTl.108709$i24.96179@newsfe14.iad>
Source record: 15304

"Mike Coslo" <mjc5@psu.edu> wrote in message
news:gvcu5c$bk1e$1@tr22n12.aset.psu.edu...
> Dr. Barry L. Ornitz wrote:
>
>> The ONLY effect that radio frequencies can do to humans is thermal.
>> You have to increase the frequencies to the upper visible region
>> (blue since we are talking frequency rather than wavelength) before
>> there is any ionizing radiation. Note, however, that thermal effects
>> can be damaging.
>
> I had posted some links here some months back about the other effects
> of rf. Seems there is a little more than just heating going on. I have
> noticed that the heating effect I "feel" on extended cell phone use is
> not actual heat.

How do you know the effects were not thermal? The "malaise" some people feel when exposed to strong RF fields is very similar to the effects felt during a mild fever. My statement was based on how radio frequency fields interact with atoms and molecules. How the body "interprets" the molecular heating is an entirely different matter.

To go back to Jeff's references, any nonlinearity can detect amplitude modulation. Nerve firing potentials are quite nonlinear, of course. The cilia in the human ear have mechanical resonances from typically 20 Hz to 20 kHz (unless you listen to rock music or are as old as I am). These same cilia have thermal time constants in the fractional millisecond range too. It seems to me that RF modulated at audio frequencies could easily be "heard" even though the effect might still be caused by heating.

> Interestingly, most cell phone fear is based on cancer. It's not hardly
> likely, for the reasons already outlined.
>
> The biggest danger to cell phone towers is if one falls on you.

And the biggest danger from cell phone use is letting it distract someone who is driving a car (or train or subway).

> I'll not go so far as to say that there are no effects however. I
> suspect something is happening that we might not know about at this
> time - and there is some tantalizing evidence showing in some of the
> research.

Unfortunately, many of the researchers do not understand radio frequency fields enough to design their experiments properly. Until they do, we will always be stuck with correlation confused with causation.

73, Barry WA4VZQ

3323. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 12:22:28 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <7gaTl.17752$%54.2982@nlpi070.nbdc.sbc.com>
Source record: 15296

Jim Kelley wrote:
> Most of your ideas and concepts were of course correct, Cecil. Your
> ... it wasn't merely a difference over semantics.

I have not changed any of my basic ideas or concepts.
All I have changed is the definitions of "interference"
and "reflection" that I was using. It was a trivial
problem and easily fixed by changing "causes" to
"corresponds to" and "reflected" to "redistributed". The
only problem left is your refusal to accept my apology
and lay the distant past to rest after I made all the
revisions that you suggested.

You absolute refusal to define any of the words you were
using was part of the problem.

> It provided you with justification for adding, subtracting,
> and superposing average power at will.

For your information, the use of the irradiance (power density)
equation from Born and Wolf is *NOT* superposition of powers.
It is, however, the proper way to add power densities when
interference is present. If the forward and reflected waves are
not 90 degrees out of phase, interference is present at every
impedance discontinuity and energy is being redistributed in
different directions. I would expect a physics major to know
such or at least know where to look to alleviate his ignorance.

You once said that the irradiance equation that I quoted from
"Optics" by Hecht did not appear in Born and Wolf and that
Hecht had been discredited or some such. I bought the Born and
Wolf book and found the exact equation to which you were objecting.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3324. Re: 419 n8wwm

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 14:46:55 UTC
From: Mike Hunt <gordo77@yahoo.com>
Message-ID: <gvjjp5$d8t$1@news.eternal-september.org>
Source record: 15297
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.shortwave

"Dan Valdez" <dval5@yahoo.com> wrote in message
news:4a1c0630$1@x-privat.org...
>
> "Doug Adair" <n8wwm@hotmail.com> wrote in message
> news:Xns9BF2A0D5DAED1n8wwmhotmailcom@94.75.244.51...
>>A guy from Toledo who enjoys showing a submissive man a good time in every
>> way. I have so many interests that there probably is some broad common
>> ground between myself and about anyone. I love to talk about D/s and BDSM
>> issues and interests, and have been generally regarded as a funny guy to
>> hang out with who has a good head on his shoulders. Call me for anything
>> else you'd like to know!
>>
>> Call 419-698-2075 and ask for Doug.
>>
> You should be ashamed of yourself!
>
LOL have you seen dougs other personals?
http://groups.google.com/group/soc.subculture.bondage-bdsm/browse_thread/thread/64ff08d1e807de25/9e26852fbc1c36f0?hl=en&q=419+doug+adair&_done=%2Fgroup%2Fsoc.subculture.bondage-bdsm%2Fbrowse_thread%2Fthread%2F64ff08d1e807de25%2F9e26852fbc1c36f0%3Fhl%3Den%26q%3D419%2Bdoug%2Badair

3325. Spermamax - Increase sperm count naturally

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 15:59:52 UTC
From: sallygreggatb <sallygreggatb@gmail.com>
Message-ID: <1b8002b1-348f-4e6c-9f01-f54a789413dd@z7g2000vbh.googlegroups.com>
Source record: 15298
Cross-posted to: comp.databases.ingres,microsoft.public.windowsxp.hardware,microsoft.public.sqlserver.reportingsvcs,rec.radio.amateur.antenna,rec.sport.rugby.league

Draw your attention to this: Increase sperm count naturally -
http://mens-health.com.cn/spermamax/
We've got all the best you need to gain popularity.

There are many people who use mobility scooters and electric power wheelchairs to increase, or as their chief source of, mobility. Mobility scooters and electric power wheelchairs are similar in the service that they provide. They also have many other similarities, including the use of batteries. In times passed gasoline was the most common form of fuel for most personal movement devices. Increase sperm count naturally The use of gasoline, however, is not practical for indoor use and has several other issues that can be unsafe. Due to advances in technology, batteries now have a longer per charge life and take less time to charge. Keeping your batteries in good working order is imperative to ensuring your mobility movement device will always provide reliable service. It is important to periodically check battery connections on your mobility scooter or power chair. Increase sperm count naturally Check to make sure that they are tight and are not corroded. Corrosion is a whitish colored sand like substance that appears to вЂ□growвЂ™ on batteries. Both loose connections and corrosion can result in poor performance and should be fixed immediately. You can clean corrosion with a combination of baking soda and water. Make a thick paste by combining the two and apply it to the corroded area. Apply the paste and let it stand for at least five minutes before scrubbing it with a toothbrush. Increase sperm count naturally As a preventative measure you can apply a thin layer of petroleum jelly to the outside of the connections. Corrosion is formed when the metal contacts air and the petroleum jelly will help block the air. You will generally need to change your batteries at some point throughout the life of your personal mobility device. This generally is not very expensive and by properly maintaining your battery you will help increase its life.

Your wife is sure to admire you: http://mens-health.com.cn/spermamax/

3326. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 17:36:53 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvjtnl$n034$1@tr22n12.aset.psu.edu>
Source record: 15299

Owen Duffy wrote:
> Michael Coslo <mjc5@psu.edu> wrote in news:gvhhkj$do4m$1
> @tr22n12.aset.psu.edu:
>
>> I'm starting up an old project that I never quite finished - my loop
>> antenna.
>>
>> When I first put it together, I tried a simple loop of coax to couple
>> the radio to the loop. Was never really satisfied with that though.
>>
>> I'm wanting to try a gamma match, possibly something a little like what
>> Owen Duffy posted a nice version of.
>>
>> The Gamma match is fairly understandable to me, and I expect it to work
>> well.
>>
>> What I am wondering about is in the coax loop coupling system, how is
>> the best match obtained? Loop size? orientation? Luck?
>
> Mike, you haven't given much information about the loop (size,
> frequency). Is loop balance / symmetry important?

It's Octagonal, .75 inch copper tubing, around 8 feet in diameter. It's designed to just reach into the 80 meter voice segment with it's capacitor setup. Upper end is either 17 or 15 meters. It's been a few years since I worked on this, which is the reason for the "around" remarks.

Capacitor is a 4 tube trombone capacitor, each tube roughly a foot in length. External tube is .75 inch, and internal tube is .5 inch. Insulation is wrapped Kevlar sheet around internal tube.

Adjustment is via a power screwdriver and a threaded rod setup to move the trombones in and out.

- 73 de Mike N3LI -

3327. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 17:45:25 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvju7l$n034$4@tr22n12.aset.psu.edu>
Source record: 15300

> Owen Duffy wrote:

>> Mike, you haven't given much information about the loop (size,
>> frequency). Is loop balance / symmetry important?

Oops, I didn't mention anything about symmetry in that post.

Probably because I'm not sure how important it might be. So if it is an
issue, I'm all ears!

- 73 de Mike N3LI -

3328. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 18:06:04 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvjve6ilb1@news.service.uci.edu>
Source record: 15301

Cecil Moore wrote:

> You once said that the irradiance equation that I quoted from
> "Optics" by Hecht did not appear in Born and Wolf and that
> Hecht had been discredited or some such. I bought the Born and
> Wolf book and found the exact equation to which you were objecting.

I honestly don't believe you to be a liar. So I have to believe that
you may not be completely in possession of your faculties. That which
you describe above never happened, Cecil.

ac6xg

3329. get kelp

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 19:00:39 UTC
From: kb9rqz <mark@kb9rqz.com>
Message-ID: <f0f20a7a-da03-45c2-9eb3-8a0312ccf877@o20g2000vbh.googlegroups.com>
Source record: 15302
Cross-posted to: rec.radio.cb,rec.radio.amateur.policy,rec.radio.amateur.antenna,rec.radio.shortwave

On May 27, 10:46 am, "Mike Hunt" <gord...@yahoo.com> wrote:
> "
can the desperate trooling asshole

3330. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 19:44:30 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <wKgTl.31035$YU2.6114@nlpi066.nbdc.sbc.com>
Source record: 15303

Jim Kelley wrote:
> I honestly don't believe you to be a liar. So I have to believe that
> you may not be completely in possession of your faculties. That which
> you describe above never happened, Cecil.

A crazy person believes that everyone else is crazy. I googled
and couldn't find exactly what I was looking for but here are
a couple of your quotes that I did find:

Jim Kelley wrote:
> Aug 26, 2003, "Again, Born and Wolf disagree with Hecht."

On exactly what subjects do Born and Wolf disagree with Hecht?
After I obtained a copy of Born and Wolf, I discovered that
your above statement, repeated more than once, was false.

> Aug 28, 2003, "Hecht must be far too old and out of date."

Exactly what sections of "Optics" by Hecht is "too old and
out of date"?

If I spent more time, I could find many other quotes of
yours like the above.

Google is a bitch, huh?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3331. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-27 20:24:29 UTC
From: "Dr. Barry L. Ornitz" <BLOrnitz48@charter.net>
Message-ID: <bkiTl.94334$BZ3.18560@newsfe12.iad>
Source record: 15305

"Mike Coslo" <mjc5@psu.edu> wrote in message
news:gvcu5c$bk1e$1@tr22n12.aset.psu.edu...
> Dr. Barry L. Ornitz wrote:
>
>> The ONLY effect that radio frequencies can do to humans is
>> thermal. You have to increase the frequencies to the upper
>> visible region (blue since we are talking frequency rather than
>> wavelength) before there is any ionizing radiation. Note,
>> however, that thermal effects can be quite damaging too.
>
> I had posted some links here some months back about the other
> effects of rf. Seems there is a little more than just heating
> going on. I have noticed that the heating effect I "feel" on
> extended cell phone use is not actual heat.

How do you know the effects were not thermal? The "malaise" some people feel when exposed to strong RF fields is very similar to the effects felt during a mild fever. My statement was based on how radio frequency fields interact with atoms and molecules. How the body "interprets" the molecular heating is an entirely different matter.

To go back to Jeff's references, any nonlinearity can detect amplitude modulation. Nerve firing potentials are quite nonlinear, of course. The cilia in the human ear have mechanical resonances from typically 20 Hz to 20 kHz (unless you listen to rock music or are as old as I am). These same cilia have thermal time constants in the fractional millisecond range too. It seems to me that RF modulated at audio frequencies could easily be "heard" even though the effect might still be caused by heating. Then too, the RF must be in the microwave region for much of the energy to couple into the ear. This corresponds to experimental evidence shown in the first article.

> Interestingly, most cell phone fear is based on cancer. It's not
> hardly likely, for the reasons already outlined.
>
> The biggest danger to cell phone towers is if one falls on you.

And the biggest danger from cell phone use is letting it distract someone who is driving a car (or train or subway).

> I'll not go so far as to say that there are no effects however. I
> suspect something is happening that we might not know about at
> this time - and there is some tantalizing evidence showing in some
> of the research.

Unfortunately, many of the researchers do not understand radio frequency fields enough to design their experiments properly. Until they do, we will always be stuck with correlation confused with causation.

One of the better examples of this was explained by a Japanese professor who taught my first statistics course. He said that the average height of Japanese males dropped several inches in the years following WWII. This could easily be correlated with the dropping of two atomic bombs on Japan. But the real cause was the fact that the Japanese army had drafted the taller men first, and many of these taller men were killed in combat.

Another problem is that in working with human populations, a correlation coefficient of 0.2 is often considered good. But in the physical sciences, good correlation is usually over 0.9 and excellent correlation is usually over 0.99. When working with such research as cancer studies, extremely large populations must be used for their results to be meaningful.

73, Barry WA4VZQ

Sorry for the delay in this post. Charter's NNTP server has been down for over two days.

3332. Re: Spermamax - Increase sperm count naturally

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 11:42:40 UTC
From: toowoomba4350 <toowoomba4350@gmail.com>
Message-ID: <bf1da739-67e5-47b3-8c97-fbd44367e4dd@b6g2000pre.googlegroups.com>
Source record: 15306
Cross-posted to: comp.databases.ingres,microsoft.public.windowsxp.hardware,microsoft.public.sqlserver.reportingsvcs,rec.radio.amateur.antenna,rec.sport.rugby.league

On May 28, 1:59 am, sallygreggatb <sallygregg...@gmail.com> wrote:
> Draw your attention to this: Increase sperm count naturally
-http://mens-health.com.cn/spermamax/
> We've got all the best you need to gain popularity.
>
> There are many people who use mobility scooters and electric power
> wheelchairs to increase, or as their chief source of, mobility.
> Mobility scooters and electric power wheelchairs are similar in the
> service that they provide. They also have many other similarities,
> including the use of batteries. In times passed gasoline was the most
> common form of fuel for most personal movement devices. Increase sperm
> count naturally The use of gasoline, however, is not practical for
> indoor use and has several other issues that can be unsafe. Due to
> advances in technology, batteries now have a longer per charge life
> and take less time to charge. Keeping your batteries in good working
> order is imperative to ensuring your mobility movement device will
> always provide reliable service. It is important to periodically check
> battery connections on your mobility scooter or power chair. Increase
> sperm count naturally Check to make sure that they are tight and are
> not corroded. Corrosion is a whitish colored sand like substance that
> appears to вЂ˜growвЂ™ on batteries. Both loose connections and
> corrosion can result in poor performance and should be fixed
> immediately. You can clean corrosion with a combination of baking soda
> and water. Make a thick paste by combining the two and apply it to the
> corroded area. Apply the paste and let it stand for at least five
> minutes before scrubbing it with a toothbrush. Increase sperm count
> naturally As a preventative measure you can apply a thin layer of
> petroleum jelly to the outside of the connections. Corrosion is formed
> when the metal contacts air and the petroleum jelly will help block
> the air. You will generally need to change your batteries at some
> point throughout the life of your personal mobility device. This
> generally is not very expensive and by properly maintaining your
> battery you will help increase its life.
>
> Your wife is sure to admire you:http://mens-health.com.cn/spermamax/

? what antenna are we talking about here?????

3333. What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 15:15:52 UTC
From: "Bob D." <bobbyd849@comcast.net>
Message-ID: <dPGdnZGbQb48N4PXnZ2dnUVZ_hSdnZ2d@giganews.com>
Source record: 15307

I decided to install a 2m FM rig in my garage to stay in touch with the local repeaters while working on the car. I want a quick and dirty homebrew antenna at the roof line. I know the J-pole is a popular 2m antenna, but why??? The J-pole is basically a half wave antenna fed at the end, right? At 2m you are only 19 inches away from the 50 ohm feed point (a classic dipole), so why not just loop the coax into the middle and forget the matching stub? Am I missing something?

If I do this, would a clip on ferrite at the feed point make a good choke-balun?

--
Bob D. ND9B

3334. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 15:44:22 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ojyTl.30748$yr3.7272@nlpi068.nbdc.sbc.com>
Source record: 15308

Jim Kelley wrote:
> Cecil Moore wrote:
>> Sure sounds like interference corresponds to (rather than
>> causes) the redistribution of photon energy as described on
>> the FSU web page.
>
> Yes it does.

Seems you have changed your mind from this earlier
assertion of yours.

> There is no way to describe the mechanism for a
> reversal in the direction of energy by means other
> than reflection.

Can you spell R-E-D-I-S-T-R-I-B-U-T-I-O-N?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3335. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 16:51:38 UTC
From: JB <nospam@goofball.net>
Message-ID: <uizTl.1097$Cc1.563@nwrddc01.gnilink.net>
Source record: 15309

"Bob D." <bobbyd849@comcast.net> wrote in message
news:dPGdnZGbQb48N4PXnZ2dnUVZ_hSdnZ2d@giganews.com...
> I decided to install a 2m FM rig in my garage to stay in touch with the
> local repeaters while working on the car. I want a quick and dirty
homebrew
> antenna at the roof line. I know the J-pole is a popular 2m antenna, but
> why??? The J-pole is basically a half wave antenna fed at the end, right?
At
> 2m you are only 19 inches away from the 50 ohm feed point (a classic
> dipole), so why not just loop the coax into the middle and forget the
> matching stub? Am I missing something?
>
> If I do this, would a clip on ferrite at the feed point make a good
> choke-balun?
>
> --
> Bob D. ND9B
>
The coax must depart perpendicular from the 75 ohm feed point by .2 to .5
wavelength or greater for the Vertical dipole you describe. This makes it a
great tower side mount antenna with gain like a 2 element beam. When
mounted this way, the coax gets dressed down the tower leg and all is well
without ferrites.

J-pole is simple to build with 300 ohm TV twinnlead that was once cheap and
available anywhere. Also the J-pole includes a matching section to 50 ohms
. Hang up one by a string, and roll it up for travel. Light weight and
slick. Vertical dipole needs something like a gamma match to get to 50
ohms, but 75 ohms isn't far off and the antenna is fairly broad too. A
variation is the coaxial dipole, that feeds the coax up a 1/2 wave mounting
pipe to the feedpoint and a 1/4 wave whip and larger 1/4 wave ground skirt.

3336. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 16:52:32 UTC
From: Rich Griffiths <richgrif@one.net>
Message-ID: <fLSdnVUcXc_NXIPXnZ2dnUVZ_hdi4p2d@posted.nuvoxcommunications>
Source record: 15310

On Thu, 28 May 2009 11:15:52 -0400, Bob D. wrote:

> I decided to install a 2m FM rig in my garage to stay in touch with the
> local repeaters while working on the car. I want a quick and dirty
> homebrew antenna at the roof line. I know the J-pole is a popular 2m
> antenna, but why??? The J-pole is basically a half wave antenna fed at
> the end, right? At 2m you are only 19 inches away from the 50 ohm feed
> point (a classic dipole), so why not just loop the coax into the middle
> and forget the matching stub? Am I missing something?
>
> If I do this, would a clip on ferrite at the feed point make a good
> choke-balun?

There's not much performance difference between a J-pole, vertical dipole, and a quarter-wave ground-plane vertical for working "local" repeaters.

A J-pole for outdoor use can be easy to build, easy to mount, and very rugged. For indoor use, you might want to settle for a simple twin-lead J-pole, which is even easier to build and can be easy to mount.

A vertical dipole will tend to have a screwy radiation pattern if you just run the coax up from below and connect to the middle. But probably not enough for you to care.

I'd go with whatever seems easiest to make and easiest to mount in your particular situation.

... Rich W2RG

3337. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 17:06:19 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvmgachoe1@news.service.uci.edu>
Source record: 15311

Cecil Moore wrote:

> I googled
> and couldn't find exactly what I was looking for but here are
> a couple of your quotes that I did find:
>
> Jim Kelley wrote:
>> Aug 26, 2003, "Again, Born and Wolf disagree with Hecht."
>> Aug 28, 2003, "Hecht must be far too old and out of date."

"You once said that the irradiance equation that I quoted from
"Optics" by Hecht did not appear in Born and Wolf"

> Exactly what sections of "Optics" by Hecht is "too old and
> out of date"?

Presumably the answer lies within the omitted part of the cited post.

> If I spent more time, I could find many other quotes of
> yours like the above.

I really wish you would, Cecil. It might help freshen your memory about
the whole thing.

But as you are so apt to do (when it best suits you), you've neglected
to include any context of the conversation that would have provided the
exact nature of my comments, and should have, according to you, proved
your assertion.

ac6xg

3338. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 17:32:48 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvmhs1$ic3$1@news.service.uci.edu>
Source record: 15312

Cecil Moore wrote:
> Jim Kelley wrote:
>> Cecil Moore wrote:
>>> Sure sounds like interference corresponds to (rather than
>>> causes) the redistribution of photon energy as described on
>>> the FSU web page.
>>
>> Yes it does.
>
> Seems you have changed your mind from this earlier
> assertion of yours.
>
>> There is no way to describe the mechanism for a reversal in the
>> direction of energy by means other than reflection.

Not at all. But drawing such a conclusion does reveal that you apparently still have misconceptions consistent with the 4th mechanism of reflection you introduced to us. Your vehement protestations and testimonials about retractions and apologies notwithstanding.

> Can you spell R-E-D-I-S-T-R-I-B-U-T-I-O-N?

Well if not, I'm sure my spell checker can. But you're demonstrated that you can, and we're all very proud of you. :-)

ac6xg

3339. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 17:42:09 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <O1ATI.31091$YU2.14139@nlpi066.nbdc.sbc.com>
Source record: 15313

Jim Kelley wrote:
> But as you are so apt to do (when it best suits you), you've neglected
> to include any context of the conversation that would have provided the
> exact nature of my comments, and should have, according to you, proved
> your assertion.

I gave you the dates of your postings, Jim. Here are
another two of your ridiculous statements:

> Jun 18, 2003, "Your idea about a reversal in the direction
> of the flow of energy being caused by something other than
> reflection is nonsense."

Can you spell R-E-D-I-S-T-R-I-B-U-T-I-O-N?

micro.magnet.fsu.edu/primer/java/scienceopticsu/interference/waveinteractions/index.html

If the redistribution occurs within a transmission line,
it becomes a reversal of direction of energy flow since
there are only two directions available. At the Z0-match
point in an otherwise mismatched system, the reflected
wave energy from the load is redistributed back toward
the load at the Z0-match point.

> Jun 20, 2003, "The waves continue to propagate, 180
> degrees out of phase, transferring no energy.

Exactly how do you prove they continue to exist? If you
measure them, you prove that they contain energy and
thus prove yourself wrong. If you measure zero energy,
you cannot prove they exist plus they do not even
meet the definition of "wave". What happens if those
waves, which are transferring no energy, encounter
a resistive load?

Can you spell M-E-T-A-P-H-Y-S-I-C-S?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3340. Re: What is the correlation between radio waves and cancer?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 17:47:12 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvmin1$bo1s$1@tr22n12.aset.psu.edu>
Source record: 15314

Dr. Barry L. Ornitz wrote:
> "Mike Coslo" <mjc5@psu.edu> wrote in message
> news:gvcu5c$bk1e$1@tr22n12.aset.psu.edu...
>> Dr. Barry L. Ornitz wrote:
>>
>>> The ONLY effect that radio frequencies can do to humans is
>>> thermal. You have to increase the frequencies to the upper
>>> visible region (blue since we are talking frequency rather than
>>> wavelength) before there is any ionizing radiation. Note,
>>> however, that thermal effects can be quite damaging too.
>> I had posted some links here some months back about the other
>> effects of rf. Seems there is a little more than just heating
>> going on. I have noticed that the heating effect I "feel" on
>> extended cell phone use is not actual heat.
>
> How do you know the effects were not thermal?

The temperature increased was sensed, not an actual rise in
temperature. This was confirmed as the one ear and surrounding area
"feeling warm", yet not warm to the touch. To the touch, it felt similar
to the other ear.

<snippage>

> Unfortunately, many of the researchers do not understand radio
> frequency fields enough to design their experiments properly. Until
> they do, we will always be stuck with correlation confused with
> causation.
>
> One of the better examples of this was explained by a Japanese
> professor who taught my first statistics course. He said that the
> average height of Japanese males dropped several inches in the years
> following WWII. This could easily be correlated with the dropping
> of two atomic bombs on Japan. But the real cause was the fact that
> the Japanese army had drafted the taller men first, and many of
> these taller men were killed in combat.

Sure, there might be many reasons for an observed effect. I don't
attribute what I have seen to anything particular, and make no
predictions. Even my thesis that cell phone use makes people stupid is a
joke - mostly. I have seen monumentally idiotic things done by people
while using cell phones. Of course, they might have just been really
dumb to begin with.

- 73 de Mike N3LI -

3341. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 18:02:52 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <dlATl.31092$YU2.15495@nlpi066.nbdc.sbc.com>
Source record: 15315

Jim Kelley wrote:
> But drawing such a conclusion does reveal that you
> apparently still have misconceptions consistent with the 4th mechanism
> of reflection you introduced to us.

As you know, years ago I changed the "4th mechanism
of reflection" to the "redistribution" described on
the FSU web page and apologized for my poor choice
of words. You are still kicking the dog after he
stopped wetting the floor years ago.

You asked for the mechanism that causes reversal of
the direction of energy flow during wave cancellation
and I provided it. Here it is again:

micro.magnet.fsu.edu/primer/java/scienceopticsu/interference/waveinteractions/index.html

Previously I was using the definition of "reflection",
common to amateur radio, as any reversal in the
direction of energy flow in a transmission line. I
then realized that a "reflection" only applies to a
single wave, not to two interacting waves. I apologized
and revised my article.

Please drag yourself into the present. Some of your
past assertions were/are false. I can dig up many
more if you desire.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3342. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 18:57:52 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <Q8BTI.1313$9L2.622@nwrddc02.gnilink.net>
Source record: 15316

"Bob D." <bobbyd849@comcast.net> wrote in message
news:dPGdnZGbQb48N4PXnZ2dnUVZ_hSdnZ2d@giganews.com...
>I decided to install a 2m FM rig in my garage to stay in touch with the
>local repeaters while working on the car. I want a quick and dirty homebrew
>antenna at the roof line. I know the J-pole is a popular 2m antenna, but
>why??? The J-pole is basically a half wave antenna fed at the end, right?
>At 2m you are only 19 inches away from the 50 ohm feed point (a classic
>dipole), so why not just loop the coax into the middle and forget the
>matching stub? Am I missing something?
>
> If I do this, would a clip on ferrite at the feed point make a good
> choke-balun?
>
> --
> Bob D. ND9B

Ho Bib

I have used the ferrite clip-on beads for 2 meter antennas. They work
well for me. You will be able to test them by assembling your simple
antenna and see how warm they get after transmitting.
Keep the coax perpendicular to the dipole, dont "loop" it back parallel to
the dipole.

Jerry KD6JDJ
>

3343. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 21:15:48 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <nivt151acnm68g0rmcevkd8trvb8fgb54m@4ax.com>
Source record: 15317

On Thu, 28 May 2009 11:15:52 -0400, "Bob D." <bobbyd849@comcast.net>
wrote:

>I know the J-pole is a popular 2m antenna, but
>why???

Hi Bob,

Mostly because it serves vanity more than needed gain. If a lossy
rubber ducky can hit a repeater with full quietening, a J-pole has no
claim for need.

>If I do this, would a clip on ferrite at the feed point make a good
>choke-balun?

Go with your instincts there.

73's
Richard Clark, KB7QHC

3344. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 21:30:20 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <OmAj6aUsJwHKFwJE@g3ohx.demon.co.uk>
Source record: 15318

In message <nivt151acnm68g0rmcevkd8trvb8fgb54m@4ax.com>, Richard Clark
<kb7qhc@comcast.net> writes
>On Thu, 28 May 2009 11:15:52 -0400, "Bob D." <bobbyd849@comcast.net>
>wrote:
>
>>I know the J-pole is a popular 2m antenna, but
>>why???
>
>Hi Bob,
>
>Mostly because it serves vanity more than needed gain. If a lossy
>rubber ducky can hit a repeater with full quietening, a J-pole has no
>claim for need.
>
>>If I do this, would a clip on ferrite at the feed point make a good
>>choke-balun?
>
>Go with your instincts there.
>
What 'vanity' does a J-pole serve? It's a simple, efficient, endfed
halfwave (essentially a 'Zepp'), low angle radiation, easy to construct,
tune up, and mount on the top of a pole. I see no 'vanity'.
--
Ian

3345. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-28 23:58:09 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <659u1551bp05db9ongia8sppf8esiopkev@4ax.com>
Source record: 15319

Cecileo, master of the Universe wrote:

>>> Aug 26, 2003, "Again, Born and Wolf disagree with Hecht."
>>> Aug 28, 2003, "Hecht must be far too old and out of date."

>> If I spent more time, I could find many other quotes of

More time???? Six years and nothing sorted out - how much time are we
talking about?

3346. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 02:03:40 UTC
From: Hal Rosser <hmrosser@bellsouth.net>
Message-ID: <slHTl.47815$qa.35478@bignews4.bellsouth.net>
Source record: 15320

If I recall, a full wave loop has an impedence of about 100 ohms, so if you feed it with an electrical half-wave length of 75-ohm coax, you should have an acceptable match, and a decent vswr.

"Michael Coslo" <mjc5@psu.edu> wrote in message news:gvhhkj$do4m$1@tr22n12.aset.psu.edu...
> I'm starting up an old project that I never quite finished - my loop
> antenna.
>
> When I first put it together, I tried a simple loop of coax to couple the
> radio to the loop. Was never really satisfied with that though.
>
> I'm wanting to try a gamma match, possibly something a little like what
> Owen Duffy posted a nice version of.
>
> The Gamma match is fairly understandable to me, and I expect it to work
> well.
>
> What I am wondering about is in the coax loop coupling system, how is the
> best match obtained? Loop size? orientation? Luck?
>
> - 73 de Mike N3LI -

3347. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 05:18:14 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C1A9BAE2AEB8nonenowhere@61.9.191.5>
Source record: 15321

Michael Coslo <mjc5@psu.edu> wrote in news:gvju7l$n034$4
@tr22n12.aset.psu.edu:

>> Owen Duffy wrote:
>
>>> Mike, you haven't given much information about the loop (size,
>>> frequency). Is loop balance / symmetry important?
>
>
> Oops, I didn't mention anything about symmetry in that post.
>
> Probably because I'm not sure how important it might be. So if it is an
> issue, I'm all ears!
>
> - 73 de Mike N3LI -

Mike, the symmetry issue is about whether you want the deepest nulls. A gamma match is not likely to give you the best symmetry and hence the deepest nulls.

You are talking about a smallish loop, and without modelling it, I wonder if the gamma feed is as efficient say, as a inner feed loop.

You have gone to a lot of trouble to keep losses in the loop down, it would be a pity to compromise it too much with the feed system.

Owen

3348. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 06:29:51 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <0puu15hviqu7g2vkjfu9eqe6bmf5ng1u4r@4ax.com>
Source record: 15322

On Thu, 28 May 2009 22:30:20 +0100, Ian Jackson
<ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:

>What 'vanity' does a J-pole serve? It's a simple,

Simple compared to something even more elaborate (11 out of 10), I
suppose, which would be more vainglorious.

> efficient,

More efficient than a rubber ducky was allowed (the need for that
efficiency has been skirted, however), so the claim of efficiency
appeals to vanity when the difference was already noted. More
efficient than a rubber ducky giving full quietening? What does that
matter if not to suit vanity?

>endfed
>halfwave (essentially a 'Zepp')

Now there's vanity in its full glory with the trappings of provenance
(the hushed heritage of the era of the romantic Zeppelins). I bet
tagging it with the name Zepp adds 5dBd gain alone!

>, low angle radiation,

Any lower angle than a rubber ducky? It is vanity to sneer at the
ducky, especially when it gets the job done without all this pomp and
circumstance.

>easy to construct,

I presume this the vain form of "simple."

>tune up, and mount on the top of a pole.

You can mount a rubber ducky on the top of a pole too, but suffer the
humiliation. No vanity boost in doing that, of course; so guilt
demands a J-pole.

>I see no 'vanity'.

I can't either - not here in the basement where I can hit my buddy's
repeater a dozen miles away with a 1/2W HT driving a 6" whip. Note I
say that I "can," but I don't for the shame of not having a J-pole
mounted on a 20 foot mast. I only kerchunk it knowing full well my
buddies won't talk to me on my whip through their own J-Poles. Of
course this is ironic where the repeater is using a quarterwave
because it is:
1. Much simpler,

2. Vastly more efficient;
3. Has an immensely lower angle of radiation;
4. Is superior to tune up;
5. and is mounted on a really, really tall tower (not a pole).

73's
Richard Clark, KB7QHC

3349. Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 08:44:45 UTC
From: LAB <no@mail.com>
Message-ID: <gvo791idl1@serv1.iunet.it>
Source record: 15323

Hi all,

I have tried the Slim Jim antenna on the 2m. I used a 1/4" copper tube, antenna is very good. Then I made another one using 300 Ohm TV clear twin lead, but SWR is very high and it seems to be not adjustable to the same 1:1 of the first antenna. Why? Does anyone know where is the problem? Could be the clear cable plastic not good for the application?

I have looked for black ladder twin lead, but I found it only online in very long reels and with expensive shipping charges for Roma, Italy.

Thx
--
Gianluca

3350. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 10:53:59 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <99PTI.30786$yr3.5521@nlpi068.nbdc.sbc.com>
Source record: 15324

Richard Clark wrote:
> More time???? Six years and nothing sorted out ...

Myths and old wives' tales die hard.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3351. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 11:04:31 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <6cPTl.20327$8_3.2388@flpi147.ffdc.sbc.com>
Source record: 15325

Hal Rosser wrote:
> If I recall, a full wave loop has an impedence of about 100 ohms, so if you
> feed it with an electrical half-wave length of 75-ohm coax, you should have
> an acceptable match, and a decent vswr.

Methinks you meant *quarter-wave* length of 75-ohm coax.
A half wavelength would merely repeat the feedpoint
impedance.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3352. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 11:21:18 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <MyPTl.11946$im1.7891@nlpi061.nbdc.sbc.com>
Source record: 15326

LAB wrote:
> I have tried the Slim Jim antenna on the 2m. I used a 1/4" copper tube,
> antenna is very good. Then I made another one using 300 Ohm TV clear twin
> lead, but SWR is very high and it seems to be not adjustable to the same 1:1
> of the first antenna. Why? Does anyone know where is the problem?

How can one move the feedpoint up and down the
matching stub with insulation on the wire?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3353. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 12:13:53 UTC
From: LAB <no@mail.com>
Message-ID: <gvojh5dhn1@serv1.iunet.it>
Source record: 15327

>> CECIUL MOORE:
>> How can one move the feedpoint up and down the matching stub with
insulation on the wire?

I started at the same distance of the copper tube antenna. About 1cm
apart SWR seemed to be about the same: not better, not worse. It seemed to
be the best... I've had no time in the week for other tests; I'll continue
today or tomorrow. If someone has an idea it will be appreciated.

--
Gianluca

3354. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 13:29:49 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvoo0f$ns2i$1@tr22n12.aset.psu.edu>
Source record: 15328

Richard Clark wrote:

> I can't either - not here in the basement where I can hit my buddy's
> repeater a dozen miles away with a 1/2W HT driving a 6" whip. Note I
> say that I "can," but I don't for the shame of not having a J-pole
> mounted on a 20 foot mast. I only kerchunk it knowing full well my
> buddies won't talk to me on my whip through their own J-Poles. Of
> course this is ironic where the repeater is using a quarterwave
> because it is:
> 1. Much simpler,
> 2. Vastly more efficient;
> 3. Has an immensely lower angle of radiation;
> 4. Is superior to tune up;
> 5. and is mounted on a really, really tall tower (not a pole).

Oh dear, this sounds like another case of some poor innocent beaten with a J-Pole when they were a child, leaving a lifelong hatred of the infernal things.

I too was a victim of J-poling, those of us who are identified by the strange double welts and scars, one large and one small. With years of therapy, I can now stand to be in the same neighborhood with the evil "Devil's Cane".

Ever notice that they resemble the dreaded Wouff Hong? The elders were on to something.

Seriously though, they are just another antenna, and usually used for a pretty simple purpose, that of hitting the local repeater. I've used quarter wave, dipole and J-Pole, and yup, they hit the repeater. No majick, just something to mess with.

Right now I am using a J-pole for a more important reason. My wife likes the look better than a ground plane.

- 73 de Mike N3LI -

3355. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 14:31:36 UTC
From: JB <nospam@goofball.net>
Message-ID: <clSTl.1516$9L2.889@nwrddc02.gnilink.net>
Source record: 15329

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:0puu15hviqu7g2vkjfu9eqe6bmf5ng1u4r@4ax.com...
> On Thu, 28 May 2009 22:30:20 +0100, Ian Jackson
> <ianREMOVETHISjackson@g3ohx.demon.co.uk> wrote:
>
> >What 'vanity' does a J-pole serve? It's a simple,
>
> Simple compared to something even more elaborate (11 out of 10), I
> suppose, which would be more vainglorious.
>
> > efficient,
>
> More efficient than a rubber ducky was allowed (the need for that
> efficiency has been skirted, however), so the claim of efficiency
> appeals to vanity when the difference was already noted. More
> efficient than a rubber ducky giving full quietening? What does that
> matter if not to suit vanity?
>
> >endfed
> >halfwave (essentially a 'Zepp')
>
> Now there's vanity in its full glory with the trappings of provenance
> (the hushed heritage of the era of the romantic Zeppelins). I bet
> tagging it with the name Zepp adds 5dBd gain alone!
>
> >, low angle radiation,
>
> Any lower angle than a rubber ducky? It is vanity to sneer at the
> ducky, especially when it gets the job done without all this pomp and
> circumstance.
>
> >easy to construct,
>
> I presume this the vain form of "simple."
>
> >tune up, and mount on the top of a pole.
>
> You can mount a rubber ducky on the top of a pole too, but suffer the
> humiliation. No vanity boost in doing that, of course; so guilt
> demands a J-pole.
>
> >I see no 'vanity'.
>
> I can't either - not here in the basement where I can hit my buddy's

> repeater a dozen miles away with a 1/2W HT driving a 6" whip. Note I
> say that I "can," but I don't for the shame of not having a J-pole
> mounted on a 20 foot mast. I only kerchunk it knowing full well my
> buddies won't talk to me on my whip through their own J-Poles. Of
> course this is ironic where the repeater is using a quarterwave
> because it is:
> 1. Much simpler,
> 2. Vastly more efficient;
> 3. Has an immensely lower angle of radiation;
> 4. Is superior to tune up;
> 5. and is mounted on a really, really tall tower (not a pole).
>
> 73's
> Richard Clark, KB7QHC

The 1/4 wave ground plane has a useless pattern. Main lobe at about 30 degrees above horizon, but broad enough to be usable and simple to build. I have one as a receive antenna for duplex operation, shielded from the transmit antennas by an air conditioner and vertical separation, feeding several receivers with cavities. It is literally thrown on the roof and coax is routed through the ductwork. Hasn't moved for 12 years. Hint: if you use an SO-239, seal the center conductor so water wont run down the rod and into the connector. Tape the coax connector tightly.

For frequencies below 220, it is best to put up an outside antenna. Above those frequencies, RF gets out with much less shielding from the building.

J-poles, vertical dipoles have a more useful pattern below horizon. They provide useful performance without being too large. The typical 2 meter rubber ducky has anywhere from 6 to 20 db of loss. The typical 2m 5/8 and 5db 440 dual band mobile antenna will be noticeably better.

What's with all the EMO girl chatter?

3356. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 14:33:40 UTC
From: Ian Jackson <ianREMOVETHISjackson@g3ohx.demon.co.uk>
Message-ID: <DsaAYsAEJ$HKFw4$@g3ohx.demon.co.uk>
Source record: 15330

In message <6cPTl.20327$8_3.2388@flpi147.ffdc.sbc.com>, Cecil Moore
<nospam@w5dxp.com> writes
>Hal Rosser wrote:
>> If I recall, a full wave loop has an impedence of about 100 ohms, so
>>if you feed it with an electrical half-wave length of 75-ohm coax,
>>you should have an acceptable match, and a decent vswr.
>
>Methinks you meant *quarter-wave* length of 75-ohm coax.
>A half wavelength would merely repeat the feedpoint
>impedance.

The question is, "Do you use a quarterwave of 75 ohm cable to get
something like a 50 ohm impedance at the TX end - even if this means
using more coax than you really need or, to minimise losses, do you
simply use the shortest length of coax - either 50 or 75 ohm?"
--
Ian

3357. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 14:39:03 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <5nsv15lsokggr96b3moja5dm49hilvke8h@4ax.com>
Source record: 15332

On Fri, 29 May 2009 10:44:45 +0200, "LAB" <no@mail.com> wrote:

>SWR is very high and it seems to be not adjustable to the same 1:1
>of the first antenna. Why?

Different diameters of conductors, different dielectric relationships,
that is why. This leads to different dimensions for the same
resonance. Larger conductors resonate at lower frequencies (or at
shorter lengths for same frequency). More dielectic also shortens
resonant length. Just how much, is for you to discover through
experimentation.

73's
Richard Clark, KB7QHC

3358. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 14:39:40 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvos3c$s82e$1@tr22n12.aset.psu.edu>
Source record: 15331

Owen Duffy wrote:
> Michael Coslo <mjc5@psu.edu> wrote in news:gvju7l$n034$4

>> Oops, I didn't mention anything about symmetry in that post.
>>
>> Probably because I'm not sure how important it might be. So if it is an
>> issue, I'm all ears!

> Mike, the symmetry issue is about whether you want the deepest nulls. A
> gamma match is not likely to give you the best symmetry and hence the
> deepest nulls.
>
> You are talking about a smallish loop, and without modelling it, I wonder
> if the gamma feed is as efficient say, as a inner feed loop.
>
> You have gone to a lot of trouble to keep losses in the loop down, it
> would be a pity to compromise it too much with the feed system.

I'm following you here, Owen. I'll put together an inner feed loop and
give that a shot. I was looking at the magloop thread you were in on
eHam from a little over a year ago. Some good info there.

I was thinking about using copper tubing for the loop, but with the area
being a variable, I'm considering using something more flexible. Or
maybe finding out the area by experimentation, then going with a final
loop area in a neater form.

Thanks much!

- 73 de Mike N3LI -

3359. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 15:22:25 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <R4TTl.1290$Cc1.321@nwrddc01.gnilink.net>
Source record: 15333

"JB" <nospam@goofball.net> wrote in message
news:clSTl.1516$9L2.889@nwrddc02.gnilink.net...

>
> The 1/4 wave ground plane has a useless pattern. Main lobe at about 30
> degrees above horizon, but broad enough to be usable and simple to build.

The quarter-wave antenna's height above ground has much more to do with the elevation angle than the fact that the antenna is a quarter-wave ground plane. Using EZNEC, I see that a quarter wave antenna situated 3 wavelengths above real/high accuracy ground of medium characteristics has a main lobe 4 degrees above the horizon. At that angle, the gain is 5.1 dBi. You can confirm this if you have a copy of EZNEC.

John

3360. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 15:31:49 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <FdTTI.1293$Cc1.769@nwrddc01.gnilink.net>
Source record: 15334

"Owen Duffy" <none@no.where> wrote in message
news:Xns9C1845DC4D8D1nonenowhere@61.9.191.5...
> Michael Coslo <mjc5@psu.edu> wrote in news:gvhhkj$do4m$1
> @tr22n12.aset.psu.edu:
>
>> I'm starting up an old project that I never quite finished - my loop
>> antenna.
>>
>> When I first put it together, I tried a simple loop of coax to couple
>> the radio to the loop. Was never really satisfied with that though.
>>
>> I'm wanting to try a gamma match, possibly something a little like what
>> Owen Duffy posted a nice version of.
>>
>> The Gamma match is fairly understandable to me, and I expect it to work
>> well.
>>
>> What I am wondering about is in the coax loop coupling system, how is
>> the best match obtained? Loop size? orientation? Luck?
>
> Mike, you haven't given much information about the loop (size,
> frequency). Is loop balance / symmetry important?
>
> If it was a small loop, I would not be thinking about a gamma match
> because of the impedance ratios for just one reason.
>
> Owen

Owen -

I've had this nagging idea for a couple of years: What if the (single-turn?)
loop passes through a toroid which already has, say, 10 or so turns on it?
That should give an impedance step-up of 100 or so. Would that not be a good
way to at least get the matching closer? In fact, the tuning capacitor could
be connected to the high impedance side to reduce the capacitor's value.

Your comments will be appreciated.

John

3361. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 15:49:12 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gvp05l$lo9$1@news.jpl.nasa.gov>
Source record: 15336

John KD5YI wrote:
>
> "Owen Duffy" <none@no.where> wrote in message
> news:Xns9C1845DC4D8D1nonenowhere@61.9.191.5...
>> Michael Coslo <mjc5@psu.edu> wrote in news:gvhhkj$do4m$1
>> @tr22n12.aset.psu.edu:
>>
>>> I'm starting up an old project that I never quite finished - my loop
>>> antenna.
>>>
>>> When I first put it together, I tried a simple loop of coax to couple
>>> the radio to the loop. Was never really satisfied with that though.
>>>
>>> I'm wanting to try a gamma match, possibly something a little like what
>>> Owen Duffy posted a nice version of.
>>>
>>> The Gamma match is fairly understandable to me, and I expect it to work
>>> well.
>>>
>>> What I am wondering about is in the coax loop coupling system, how is
>>> the best match obtained? Loop size? orientation? Luck?
>>
>> Mike, you haven't given much information about the loop (size,
>> frequency). Is loop balance / symmetry important?
>>
>> If it was a small loop, I would not be thinking about a gamma match
>> because of the impedance ratios for just one reason.
>>
>> Owen
>
>
> Owen -
>
> I've had this nagging idea for a couple of years: What if the
> (single-turn?) loop passes through a toroid which already has, say, 10
> or so turns on it? That should give an impedance step-up of 100 or so.
> Would that not be a good way to at least get the matching closer? In
> fact, the tuning capacitor could be connected to the high impedance side
> to reduce the capacitor's value.
>

This has been done in a variety of ways (notably some papers from 20
years ago where they used this scheme to couple to the windshield window
frame on a jeep.

For Rx only, there's no real issues

For Tx, though, a small loop will tend to have high currents. There's a LOT of energy stored in the magnetic field (and in the E field of the capacitor that tunes the system). All that reactive energy will be flowing back and forth through the transformer, so it will need a high VA rating.

Consider this.. if the loop has an electrical Q of, say, 1000 (which isn't unusual), and you're radiating 100W, then there's 100kW of circulating power in the system.

3362. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 15:52:27 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gvp0bo$lo9$2@news.jpl.nasa.gov>
Source record: 15335

John KD5YI wrote:
> "JB" <nospam@goofball.net> wrote in message
> news:clSTl.1516$9L2.889@nwrddc02.gnilink.net...
>
>>
>> The 1/4 wave ground plane has a useless pattern. Main lobe at about 30
>> degrees above horizon, but broad enough to be usable and simple to build.
>
>
> The quarter-wave antenna's height above ground has much more to do with
> the elevation angle than the fact that the antenna is a quarter-wave
> ground plane. Using EZNEC, I see that a quarter wave antenna situated 3
> wavelengths above real/high accuracy ground of medium characteristics
> has a main lobe 4 degrees above the horizon. At that angle, the gain is
> 5.1 dBi. You can confirm this if you have a copy of EZNEC.
>
> John

If you're just looking for a portable vertical antenna, just a wire on
the end of the coax, and hanging it up, works pretty well. The shield of
the coax (outside surface) serves as the other half of the dipole.
Heck, it will have a bizarre pattern, and couple RF everywhere, but
you're talking about an antenna you're hanging out of a hotel window or
something.. You're not doing earth-venus-earth radar tests... you're
just getting the antenna away from where you are sitting to "outside"..

3363. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 16:58:22 UTC
From: Michael Coslo <mjc5@psu.edu>
Message-ID: <gvp47e$sg6i$1@tr22n12.aset.psu.edu>
Source record: 15337

Jim Lux wrote:

> Consider this.. if the loop has an electrical Q of, say, 1000 (which
> isn't unusual), and you're radiating 100W, then there's 100kW of
> circulating power in the system.

Works on zero point energy?

- 73 de Mike N3LI -

3364. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 17:16:57 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <bMUTl.27639$c45.1651@nlpi065.nbdc.sbc.com>
Source record: 15338

LAB wrote:
> >> CECIUL MOORE:
> >> How can one move the feedpoint up and down the matching stub with
> insulation on the wire?
>
> I started at the same distance of the copper tube antenna. About 1cm
> apart SWR seemed to be about the same: not better, not worse. It seemed to
> be the best... I've had no time in the week for other tests; I'll continue
> today or tomorrow. If someone has an idea it will be appreciated.

The velocity factor of the twinlead might be as much
as 20% different from the copper tubes. If you use
the same dimensions, the resonant frequency will be
too low. Did you compensate for velocity factor?
Did you check the resonant frequency with something
like an MFJ-259B?

By changing the characteristic impedance of the
matching stub, you change the optimum tap point
on the stub so you cannot use the same dimensions
as the copper tube antenna.

Seems you need to make the adjustments using a
throw-away version of the antenna. Once you determine
the proper dimensions, you can build the final version.

I would start by shaving the insulation off both
stub wires so they can be soldered to the coax and
chopping off 10% of the length of the 1/2WL section.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3365. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 17:27:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <GVUTl.27641$c45.4224@nlpi065.nbdc.sbc.com>
Source record: 15339

Ian Jackson wrote:
> The question is, "Do you use a quarterwave of 75 ohm cable to get
> something like a 50 ohm impedance at the TX end - even if this means
> using more coax than you really need or, to minimise losses, do you
> simply use the shortest length of coax - either 50 or 75 ohm?"

Usually not a problem since 1/4WL of RG-11
at 4 MHz is only ~40 feet - hopefully less
than the height of the antenna. 1/4WL at any
higher HF frequency would be shorter than that.
Excess coax can usually be coiled into a choke.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3366. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 17:35:11 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <j1VTl.1320$Cc1.58@nwrddc01.gnilink.net>
Source record: 15340

```
"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gvp05l$lo9$1@news.jpl.nasa.gov...
> John KD5YI wrote:
>>
>> "Owen Duffy" <none@no.where> wrote in message
>> news:Xns9C1845DC4D8D1nonenowhere@61.9.191.5...
>>> Michael Coslo <mjc5@psu.edu> wrote in news:gvhhkj$do4m$1
>>> @tr22n12.aset.psu.edu:
>>>
>>>> I'm starting up an old project that I never quite finished - my loop
>>>> antenna.
>>>>
>>>> When I first put it together, I tried a simple loop of coax to couple
>>>> the radio to the loop. Was never really satisfied with that though.
>>>>
>>>> I'm wanting to try a gamma match, possibly something a little like what
>>>> Owen Duffy posted a nice version of.
>>>>
>>>> The Gamma match is fairly understandable to me, and I expect it to work
>>>> well.
>>>>
>>>> What I am wondering about is in the coax loop coupling system, how is
>>>> the best match obtained? Loop size? orientation? Luck?
>>>
>>> Mike, you haven't given much information about the loop (size,
>>> frequency). Is loop balance / symmetry important?
>>>
>>> If it was a small loop, I would not be thinking about a gamma match
>>> because of the impedance ratios for just one reason.
>>>
>>> Owen
>>
>>
>> Owen -
>>
>> I've had this nagging idea for a couple of years: What if the
>> (single-turn?) loop passes through a toroid which already has, say, 10 or
>> so turns on it? That should give an impedance step-up of 100 or so. Would
>> that not be a good way to at least get the matching closer? In fact, the
>> tuning capacitor could be connected to the high impedance side to reduce
>> the capacitor's value.
>>
>
> This has been done in a variety of ways (notably some papers from 20 years
```

> ago where they used this scheme to couple to the windshield window frame
> on a jeep.
>
> For Rx only, there's no real issues
>
> For Tx, though, a small loop will tend to have high currents. There's a
> LOT of energy stored in the magnetic field (and in the E field of the
> capacitor that tunes the system). All that reactive energy will be
> flowing back and forth through the transformer, so it will need a high VA
> rating.
>
> Consider this.. if the loop has an electrical Q of, say, 1000 (which isn't
> unusual), and you're radiating 100W, then there's 100kW of circulating
> power in the system.

Adding the transformer changes the circulating energy in the system how?
(Excluding losses)

3367. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 17:39:29 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <j5VTl.17067$hc1.16621@flpi150.ffdc.sbc.com>
Source record: 15341

Michael Coslo wrote:
> Jim Lux wrote:
>
>> Consider this.. if the loop has an electrical Q of, say, 1000 (which
>> isn't unusual), and you're radiating 100W, then there's 100kW of
>> circulating power in the system.
>
> Works on zero point energy?

Nope, the 100k joules/sec was stored in the system
during the initial transient key-down state and was
not radiated. It won't be radiated until the transient
key-up state. This is a characteristic of standing-
wave antennas. In a 1/2WL dipole, only about 20% of
the energy stored in the antenna is radiated. In the
small loop above with its astronomically high SWR,
only about 0.1% of the energy stored in the antenna
is radiated during steady-state.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3368. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 17:48:43 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gvp75oqph1@news.jpl.nasa.gov>
Source record: 15343

Michael Coslo wrote:
> Jim Lux wrote:
>
>> Consider this.. if the loop has an electrical Q of, say, 1000 (which
>> isn't unusual), and you're radiating 100W, then there's 100kW of
>> circulating power in the system.
>
> Works on zero point energy?
>
> - 73 de Mike N3LI -

not at all.. that's the definition of Q.. it's the ratio of stored
energy: energy lost in 1 cycle.

3369. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 17:50:56 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <hbOdndXAU5sVvb3XnZ2dnUVZ_tmdnZ2d@posted.easystreetonline>
Source record: 15342

JB wrote:
>
> The 1/4 wave ground plane has a useless pattern. Main lobe at about 30
> degrees above horizon, but broad enough to be usable and simple to build. . .
>
> J-poles, vertical dipoles have a more useful pattern below horizon. They
> provide useful performance without being too large. . .

A quarter wave ground plane (with or without sloping radials), a J-pole, and a vertical dipole all have virtually identical patterns provided that the outside of the feedline can be adequately decoupled. In free space, the maximum is directed to the horizon. In a real installation, height above ground and reflections from other objects will modify the elevation pattern, in the same manner for all those antenna types.

The patterns of all these antennas can be affected by current conducted to or induced on outside of the feedline. Those with EZNEC or other modeling program might find it interesting to attach a vertical wire to the "ground" side of the feedpoint and extending downward to represent the outside of a feedline. An effective current (choke) balun can be simulated with a 1k ohm resistive load inserted in the wire. You'll find considerable current can occur on the wire when it has particular lengths, the lengths depending on whether the bottom end is grounded or open, and placement of "baluns". When the current on the wire is high, considerable pattern distortion can result. I've always supposed that this is the cause of widely differing reports of the effectiveness of a J-Pole -- some people get luckier than others with feedline length. A pair of current baluns, one at or near the feedpoint and another about a quarter wavelength below, are usually enough to suppress the current on the outside of the feedline to a low enough value to prevent pattern distortion.

Roy Lewallen, W7EL

3370. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 17:51:48 UTC
From: Jim Lux <james.p.lux@jpl.nasa.gov>
Message-ID: <gvp7bhtok1@news.jpl.nasa.gov>
Source record: 15344

John KD5YI wrote:
> "Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
> news:gvp05l$lo9$1@news.jpl.nasa.gov...
>> John KD5YI wrote:
>>>
>>> "Owen Duffy" <none@no.where> wrote in message
>>> news:Xns9C1845DC4D8D1nonenowhere@61.9.191.5...
>>>> Michael Coslo <mjc5@psu.edu> wrote in news:gvhhkj$do4m$1
>>>> @tr22n12.aset.psu.edu:
>>>>
>>>>> I'm starting up an old project that I never quite finished - my loop
>>>>> antenna.
>>>>>
>>>>> When I first put it together, I tried a simple loop of coax to couple
>>>>> the radio to the loop. Was never really satisfied with that though.
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>>>>> I'm wanting to try a gamma match, possibly something a little like
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>>>>> Owen Duffy posted a nice version of.
>>>>>
>>>>> The Gamma match is fairly understandable to me, and I expect it to
>>>>> work
>>>>> well.
>>>>>
>>>>> What I am wondering about is in the coax loop coupling system, how is
>>>>> the best match obtained? Loop size? orientation? Luck?
>>>>
>>>> Mike, you haven't given much information about the loop (size,
>>>> frequency). Is loop balance / symmetry important?
>>>>
>>>> If it was a small loop, I would not be thinking about a gamma match
>>>> because of the impedance ratios for just one reason.
>>>>
>>>> Owen
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>>>
>>> Owen -
>>>
>>> I've had this nagging idea for a couple of years: What if the
>>> (single-turn?) loop passes through a toroid which already has, say,
>>> 10 or so turns on it? That should give an impedance step-up of 100 or
>>> so. Would that not be a good way to at least get the matching closer?
>>> In fact, the tuning capacitor could be connected to the high
>>> impedance side to reduce the capacitor's value.

>>>
>>
>> This has been done in a variety of ways (notably some papers from 20
>> years ago where they used this scheme to couple to the windshield
>> window frame on a jeep.
>>
>> For Rx only, there's no real issues
>>
>> For Tx, though, a small loop will tend to have high currents. There's
>> a LOT of energy stored in the magnetic field (and in the E field of
>> the capacitor that tunes the system). All that reactive energy will
>> be flowing back and forth through the transformer, so it will need a
>> high VA rating.
>>
>> Consider this.. if the loop has an electrical Q of, say, 1000 (which
>> isn't unusual), and you're radiating 100W, then there's 100kW of
>> circulating power in the system.
>
>
> Adding the transformer changes the circulating energy in the system how?
> (Excluding losses)
>
>

It doesn't.. it's that the circulating energy in a high Q system is
quite large, so you need to size the transformer (core) appropriately.

The transformer size needed to handle a 100W Tx in a resonant dipole is
MUCH smaller than the transformer needed to handle a 100W Tx in a
compact loop with a Q of 1000. The transformer has to handle not only
the input(and radiated) power, but also the circulating power.

Actually, ALL the components have to deal with the circulating power,
but most builders of compact loops are aware of the need for low
resistance in the loop and high voltage ratings in the capacitor.

3371. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 18:15:00 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvp8nb$ji9$1@news.service.uci.edu>
Source record: 15345

Cecil Moore wrote:
> Richard Clark wrote:
>> More time???? Six years and nothing sorted out ...
>
> Myths and old wives' tales die hard.

So please stop trying to invent new ones.

ac6xg

3372. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 18:22:48 UTC
From: nm5k@wt.net
Message-ID: <f903c916-b2e5-49bd-9dab-cba055c15c5c@b1g2000vbc.googlegroups.com>
Source record: 15346

On May 29, 9:31 am, "JB" <nos...@goofball.net> wrote:

>
> The 1/4 wave ground plane has a useless pattern. Main lobe at about 30
> degrees above horizon, but broad enough to be usable and simple to build.

The 1/4 GP with sloping radials and the 1/2 wave are so close in
performance to almost be unnoticeable if both are mounted in
the air say at 30 ft. The two antennas will have almost the same
pattern at almost the same exact angle. When modeling both
at 30 ft, the GP's maximum is at 2.7 degrees, vs 2.6 degrees
for the 1/2 wave. "145 MHZ".
The GP's performance will vary a bit due to the number of
radials, but in general the difference between the two antennas
will amount to about .3 to .5 DB. Not much.
This does not take into account common mode currents.
In some cases, I bet it's possible for a 1/4 GP to outperform
a J-pole if the J pole has no decoupling from the line.
Myself, I've never used a J-pole. I prefer a gamma loop
type match if I build a base fed 1/2 wave. I don't like
the matching device to be parallel with the radiating element.
Most of my "simple" 2m verticals are 1/4 wave GP's.. :/
I have one in the attic hung from the rafters. It has either
6 or 8 radials.. I forgot which.. Been a long time since I've
been up there. If you use more than 3-4 radials which is
the norm, you will see an increase in performance.
I think more due to better decoupling of the line rather
than less ground loss. At 30 ft, ground loss is not much
of an issue as long as the antenna is complete. Just one
radial will make for a 1/2 wave vertical dipole of sorts, and
ground loss should not be much of an issue at several
wavelengths in the air. So... I think the increase in
performance is more due to better decoupling from the line.
Either type can use further decoupling techniques for
improved performance. The GP will usually use a 2nd
set of radials 1/4 wave below the main radial set.
The same scheme can be used for the 1/2 wave if
common mode currents are a problem and skewing
the pattern up off the horizon.
In many cases, decoupling of the line is more important
to gain at a low angle than element length.
Does no good to use a longer element if line currents
skew the pattern upwards.

3373. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 18:25:29 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvp9b0$jp7$1@news.service.uci.edu>
Source record: 15348

Richard Clark wrote:

> More efficient than a rubber ducky was allowed (the need for that
> efficiency has been skirted, however), so the claim of efficiency
> appeals to vanity when the difference was already noted. More
> efficient than a rubber ducky giving full quietening? What does that
> matter if not to suit vanity?

Is it vanity to think that since the repeater is full quieting on their
end with their rubber ducky, then their signal must be full quieting
into the repeater, or vanity to wish such people would use a j-pole?

ac6xg

3374. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 18:29:13 UTC
From: dplatt@radagast.org
Message-ID: <p4m5f6-ehh.ln1@radagast.org>
Source record: 15347

> I have tried the Slim Jim antenna on the 2m. I used a 1/4" copper tube,
>antenna is very good. Then I made another one using 300 Ohm TV clear twin
>lead, but SWR is very high and it seems to be not adjustable to the same 1:1
>of the first antenna. Why? Does anyone know where is the problem? Could be
>the clear cable plastic not good for the application?

The impedance of "300 ohm" twinlead is often not very well controlled... it can vary quite a bit from one manufacturer / batch to the next. It's quite common to find it necessary to adjust the lengths of the radiator and matching section, and the position at which the feedline is attached, in order to get a good match. The distance from feedpoint attachment, to the bottom of the matching section, seems to be quite critical (this appears as a shunt inductance across the feedpoint, and small differences in length can make a bit difference in the reactance seen at the feedpoint).

Once you figure out the exact segment lengths you need for a particular lot of twinlead, you can usually reproduce this design quite quickly... but only as long as you use that exact type of twinlead. Switch to a different type and you'll have to do another round of trimming-and-tweaking.

I have no reason to believe that the clear-dielectric twinlead is any worse than brown- or black-dielectric twinlead, in terms of your ability to achieve a good match. They just have slightly different imepdances and velocity factors, and so need different trimmings.

It may also help to add a choke to the coax feedline, just below the point at which it's attached to the twinlead. This will isolate the outside of the feedline from the antenna, reduce RF currents on the feedline, and make the antenna's effective impedance less sensitive to the position and length of the feedline. Try a snap-on ferrite two-part core.

A few years ago I made a J-pole for my bicycle, by taping wires to the side of a fiberglass bicycle-flag mast... no twinlead was used. The lengths of the various wires ended up being a *lot* different than what I would have needed for a twinlead J-pole in free space... the relatively high dielectric constant of the fiberglass had a very big effect! Figuring out the correct length for the below-the-feedpoint inductive shunt section was the trickiest... I used bare copper wire for the two sides, wrapping a turn or two of bare stranded wire around the pole to form the short at the bottom, and moving the short up and down until I got a good match. It ended up being quite a bit shorter (if I recall correctly) than a standard twinlead J-pole would have required.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will
boycott any company which has the gall to send me such ads!

3375. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 19:05:04 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <xlWTl.27655$c45.10664@nlpi065.nbdc.sbc.com>
Source record: 15349

Jim Kelley wrote:
> Cecil Moore wrote:
>> Myths and old wives' tales die hard.
>
> So please stop trying to invent new ones.

I'm not doing that, Jim, just trying to lay the old ones to rest, e.g. a 3 nS delay through a 10" long 75m bugcatcher loading coil. Please don't tell me that you believe that a 4 MHz signal can travel through a large 10" inch coil in 3 nS - a coil that exhibits a VF of 0.04. That's about seven times the speed of light.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3376. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 19:55:57 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mre025tabu7706r8amkl0egme91dmajjrs@4ax.com>
Source record: 15350

>Cecil Moore wrote:
>> Myths and old wives' tales die hard.

Six years of your bragging about them insures that - like blowing up a balloon with a slow leak.

3377. Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 21:21:31 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvpjl3$nb4$1@news.service.uci.edu>
Source record: 15201

For what it's worth, the latest prediction:

http://science.nasa.gov/headlines/y2009/29may_noaaprediction.htm?list1112475

ac6xg

3378. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 21:35:40 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <3954a6a1-f637-4d56-9f8d-e3ca47633d46@b1g2000vbc.googlegroups.com>
Source record: 15202

On May 29, 10:49 am, Jim Lux <james.p....@jpl.nasa.gov> wrote:
> John KD5YI wrote:
>
> > "Owen Duffy" <n...@no.where> wrote in message
> >news:Xns9C1845DC4D8D1nonenowhere@61.9.191.5...
> >> Michael Coslo <m...@psu.edu> wrote in news:gvhhkj$do4m$1
> >> @tr22n12.aset.psu.edu:
>
> >>> I'm starting up an old project that I never quite finished - my loop
> >>> antenna.
>
> >>> When I first put it together, I tried a simple loop of coax to couple
> >>> the radio to the loop. Was never really satisfied with that though.
>
> >>> I'm wanting to try a gamma match, possibly something a little like what
> >>> Owen Duffy posted a nice version of.
>
> >>> The Gamma match is fairly understandable to me, and I expect it to work
> >>> well.
>
> >>> What I am wondering about is in the coax loop coupling system, how is
> >>> the best match obtained? Loop size? orientation? Luck?
>
> >> Mike, you haven't given much information about the loop (size,
> >> frequency). Is loop balance / symmetry important?
>
> >> If it was a small loop, I would not be thinking about a gamma match
> >> because of the impedance ratios for just one reason.
>
> >> Owen
>
> > Owen -
>
> > I've had this nagging idea for a couple of years: What if the
> > (single-turn?) loop passes through a toroid which already has, say, 10
> > or so turns on it? That should give an impedance step-up of 100 or so.
> > Would that not be a good way to at least get the matching closer? In
> > fact, the tuning capacitor could be connected to the high impedance side
> > to reduce the capacitor's value.
>
> This has been done in a variety of ways (notably some papers from 20
> years ago where they used this scheme to couple to the windshield window
> frame on a jeep.
>

> For Rx only, there's no real issues
>
> For Tx, though, a small loop will tend to have high currents. There's a
> LOT of energy stored in the magnetic field (and in the E field of the
> capacitor that tunes the system). All that reactive energy will be
> flowing back and forth through the transformer, so it will need a high
> VA rating.
>
> Consider this.. if the loop has an electrical Q of, say, 1000 (which
> isn't unusual), and you're radiating 100W, then there's 100kW of
> circulating power in the system.

Cecil had something to say like that(different figure) and I find it
quite interesting!
The idea of a loop antenna acting as a battery I find odd. The loop is
a tank circuit
where the power supplied replaces the power lost in the resistance of
the components
Without the resistance it would be continual motion! So where is this
"radiation" ratio coming from as the power supplied is purely a
replacement of resistance losses which includes the energy supplied
for radiation? The voltage is in the kilo volts but with current
extremely low I fail to see where the 100kW comes from which makes it
a
battery
Art

3379. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 21:39:22 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <bCYTl.24702$as4.9388@nlpi069.nbdc.sbc.com>
Source record: 15203

Richard Clark wrote:
>> Cecil Moore wrote:
>>> Myths and old wives' tales die hard.
>
> Six years of your bragging about them insures that -
> like blowing up a balloon with a slow leak.

This is coming from the person who asserted that
reflections from non-reflective glass are brighter
than the surface of the sun.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3380. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 21:47:11 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <zJYTl.1614$9L2.593@nwrddc02.gnilink.net>
Source record: 15204

```
"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gvp7bh$tok$1@news.jpl.nasa.gov...
> John KD5YI wrote:
>> "Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
>> news:gvp05l$lo9$1@news.jpl.nasa.gov...
>>> John KD5YI wrote:
>>>>
>>>> "Owen Duffy" <none@no.where> wrote in message
>>>> news:Xns9C1845DC4D8D1nonenowhere@61.9.191.5...
>>>>> Michael Coslo <mjc5@psu.edu> wrote in news:gvhhkj$do4m$1
>>>>> @tr22n12.aset.psu.edu:
>>>>>
>>>>>> I'm starting up an old project that I never quite finished - my loop
>>>>>> antenna.
>>>>>>
>>>>>> When I first put it together, I tried a simple loop of coax to couple
>>>>>> the radio to the loop. Was never really satisfied with that though.
>>>>>>
>>>>>> I'm wanting to try a gamma match, possibly something a little like
>>>>>> what
>>>>>> Owen Duffy posted a nice version of.
>>>>>>
>>>>>> The Gamma match is fairly understandable to me, and I expect it to
>>>>>> work
>>>>>> well.
>>>>>>
>>>>>> What I am wondering about is in the coax loop coupling system, how is
>>>>>> the best match obtained? Loop size? orientation? Luck?
>>>>>
>>>>> Mike, you haven't given much information about the loop (size,
>>>>> frequency). Is loop balance / symmetry important?
>>>>>
>>>>> If it was a small loop, I would not be thinking about a gamma match
>>>>> because of the impedance ratios for just one reason.
>>>>>
>>>>> Owen
>>>>
>>>>
>>>> Owen -
>>>>
>>>> I've had this nagging idea for a couple of years: What if the
>>>> (single-turn?) loop passes through a toroid which already has, say, 10
>>>> or so turns on it? That should give an impedance step-up of 100 or so.
>>>> Would that not be a good way to at least get the matching closer? In
```

>>>> fact, the tuning capacitor could be connected to the high impedance
>>>> side to reduce the capacitor's value.
>>>>
>>>
>>> This has been done in a variety of ways (notably some papers from 20
>>> years ago where they used this scheme to couple to the windshield window
>>> frame on a jeep.
>>>
>>> For Rx only, there's no real issues
>>>
>>> For Tx, though, a small loop will tend to have high currents. There's a
>>> LOT of energy stored in the magnetic field (and in the E field of the
>>> capacitor that tunes the system). All that reactive energy will be
>>> flowing back and forth through the transformer, so it will need a high
>>> VA rating.
>>>
>>> Consider this.. if the loop has an electrical Q of, say, 1000 (which
>>> isn't unusual), and you're radiating 100W, then there's 100kW of
>>> circulating power in the system.
>>
>>
>> Adding the transformer changes the circulating energy in the system how?
>> (Excluding losses)
>>
>>
>
> It doesn't.. it's that the circulating energy in a high Q system is quite
> large, so you need to size the transformer (core) appropriately.
>
> The transformer size needed to handle a 100W Tx in a resonant dipole is
> MUCH smaller than the transformer needed to handle a 100W Tx in a compact
> loop with a Q of 1000. The transformer has to handle not only the
> input(and radiated) power, but also the circulating power.
>
> Actually, ALL the components have to deal with the circulating power, but
> most builders of compact loops are aware of the need for low resistance in
> the loop and high voltage ratings in the capacitor.

I must have missed something. I did not realize that Michael intended to use the loop with a 100 watt transmitter. My assumption was that it was primarily a receiving antenna.

However, it doesn't matter because your comments are equally applicable to a short wire antenna. Therefore, I would urge readers not to consider the small loop any worse than a short wire antenna in these regards.

3381. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 21:47:20 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C1B4F3BA8CC4nonenowhere@61.9.191.5>
Source record: 15205

"John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
news:FdTTl.1293$Cc1.769@nwrddc01.gnilink.net:

...
> Owen -
>
> I've had this nagging idea for a couple of years: What if the
> (single-turn?) loop passes through a toroid which already has, say, 10
> or so turns on it? That should give an impedance step-up of 100 or so.
> Would that not be a good way to at least get the matching closer? In
> fact, the tuning capacitor could be connected to the high impedance
> side to reduce the capacitor's value.
>
> Your comments will be appreciated.

I doubt that the transformer you propose would be near as efficient as the transformer formed by a smaller feed turn. Though it is tempting to explain a transformer using turns ratio, the case of the smaller turn is explained by the ratio of main loop flux intercepted by the feed loop, and that is determined by area... so deforming the feed loop to change its area will adjust the transformation.

Owen

3382. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 22:05:27 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <H_YTl.1620$9L2.1015@nwrddc02.gnilink.net>
Source record: 15206

"Owen Duffy" <none@no.where> wrote in message
news:Xns9C1B4F3BA8CC4nonenowhere@61.9.191.5...
> "John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
> news:FdTTl.1293$Cc1.769@nwrddc01.gnilink.net:
>
> ...
>> Owen -
>>
>> I've had this nagging idea for a couple of years: What if the
>> (single-turn?) loop passes through a toroid which already has, say, 10
>> or so turns on it? That should give an impedance step-up of 100 or so.
>> Would that not be a good way to at least get the matching closer? In
>> fact, the tuning capacitor could be connected to the high impedance
>> side to reduce the capacitor's value.
>>
>> Your comments will be appreciated.
>
> I doubt that the transformer you propose would be near as efficient as the
> transformer formed by a smaller feed turn. Though it is tempting to
> explain
> a transformer using turns ratio, the case of the smaller turn is explained
> by the ratio of main loop flux intercepted by the feed loop, and that is
> determined by area... so deforming the feed loop to change its area will
> adjust the transformation.
>
> Owen

Thanks for your reply.

So, as I understand it, there is a large main loop that does the signal capture. Then there is a smaller loop kind of co-axial with the large loop and the loops are not electrically connected. Yes? The small loop is a signal pick-off? Similar to a transformer but with no core?

I seem to recall that a small loop has less inductance than a large loop. I also seem to recall that the transformation between them is a function of their inductances. So, a small loop would transform the larger loop's impedance to an even lower impedance. Is this not so?

John

3383. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 22:16:41 UTC
From: Jim Kelley <jwkelley@uci.edu>
Message-ID: <gvpmsjoit1@news.service.uci.edu>
Source record: 15207

Cecil Moore wrote:
> Jim Kelley wrote:
>> Cecil Moore wrote:
>>> Myths and old wives' tales die hard.
>>
>> So please stop trying to invent new ones.
>
> I'm not doing that, Jim, just trying to lay the
> old ones to rest, e.g. a 3 nS delay through a
> 10" long 75m bugcatcher loading coil. Please
> don't tell me that you believe that a 4 MHz
> signal can travel through a large 10" inch
> coil in 3 nS - a coil that exhibits a VF of
> 0.04. That's about seven times the speed of
> light.

Given that the speed of light is roughly 3 x10^8 meters per second, and it would ordinarily take less than a nanosecond to traverse the 10", it's not *THAT* unbelievable. The delay would depend on the series inductance and shunt capacitance of the coil. What are those numbers?

ac6xg

3384. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-29 22:58:30 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C1B5B4C93387nonenowhere@61.9.191.5>
Source record: 15208

"John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
news:H_YTl.1620$9L2.1015@nwrddc02.gnilink.net:

...
> I seem to recall that a small loop has less inductance than a large
> loop. I also seem to recall that the transformation between them is a
> function of their inductances. So, a small loop would transform the
> larger loop's impedance to an even lower impedance. Is this not so?

You can think of it in terms of inductance, but visit what inductance
really means (ie the relationship between inductance, current and flux).

I gave you an explanation in terms of area of the two loops. If your feed
loop os 20% of the area of the main loop, it intercepts 20% of the flux,
the voltage induced in the feed loop is 20% (1/5) of the main loop
voltage, the impedance is transformed by 1/(1/5^2)=25, so a 2 ohm main
loop is transformed to a 50 ohm load at the feed loop feed point.

Now you can expand that and write it in terms of inductance... but Mike
can measure the loop dimensions with a ruler and calculate area.
Measuring inductance of the components is fraught with problems.

So, if Mike works out what the radiation+loss resistance is of his main
loop, divides it by 50, takes the square root, it gives him the portion
of the main loop area to be occupied by the feed loop. Initially, one
might make the area of the feed loop 20%-50% larger and squash it to fine
tune the transformation ratio.

Owen

3385. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 00:09:45 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8fa3000a-c27e-4d77-8b57-50b5f0bb80a6@3g2000yqk.googlegroups.com>
Source record: 15209

On May 29, 4:21 pm, Jim Kelley <jwkel...@uci.edu> wrote:
> For what it's worth, the latest prediction:
>
> http://science.nasa.gov/headlines/y2009/29may_noaaprediction.htm?list...
>
> ac6xg

Interesting Jim but just a small bit of knowledge. The Cern experiment
scheduled to start this year seems to me to be an attempt to stop
particles in their tracks faster that the Earth's atmosphere can. When
this passage of particles to Earth spiked a few years back our grid
became vunerable and the Northern lights were so bright they could be
seen as far south as the equator. Now Cern wants to stop the Neutrino
particles from the Sun by "impact" which suggests a coming presence of
Hallium that can create explosive pressures such that artificial
diamonds are readily made. When this experiment takes place it
suggests that radiation will really peak for a short time before we
all become incinerated. But the some scientists are comfortable that
all that can happen is known.
Well at least to the best of their knowledge
and in the short term ,
we think,
we hope!
And we have not figured out radio radiation yet, even tho we have a
multitude of formulae from a century ago!
Fortunately the Sun has not burnt out and solar particles are still
making it to Earth as the Sun's arbitrary border expands and fractures
as well as the coming radiation fractures in Italy

3386. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 01:10:13 UTC
From: tom <news4792@taring.org>
Message-ID: <4a2087b8$0$92352$8046368a@newsreader.iphouse.net>
Source record: 15210

Art Unwin wrote:
> And we have not figured out radio radiation yet, even tho we have a
> multitude of formulae from a century ago!

Art, please do not include the majority of us here in your statements.

What you really should be saying is YOU have not figured out EM radiation yet.

I for one can design and build, with the help of STANDARD TEXTS (especially those many decades old!), almost any type of antenna or antenna array anyone could ever need. And it will work exactly as predicted if one takes into account normal environmental variables, such as buildings, trees and ground conductivity.

This isn't unknown unpredictable territory, regardless of your claims, none of which have been proven, by the way. This stuff works, and we know how, and it's not the way you claim.

tom
K0TAR

3387. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 01:37:40 UTC
From: tom <news4792@taring.org>
Message-ID: <4a208e25$0$92354$8046368a@newsreader.iphouse.net>
Source record: 15211

tom wrote:
> I for one can design and build, with the help of STANDARD TEXTS
> (especially those many decades old!), almost any type of antenna or
> antenna array anyone could ever need. And it will work exactly as
> predicted if one takes into account normal environmental variables, such
> as buildings, trees and ground conductivity.

Speaking of texts, one of my co-workers gave me a wonderful paperback
textbook last week "The Theory and Design of Circular Antenna Arrays" by
James D. Tillman, Jr., The University of Tennessee Engineering
Experiment Station, 1966.

The design, testing, scope pictures and the wonderful racks of gear they
built makes for a great piece of work.

I have no idea why he had this book or where he got it, but am grateful
to get it.

tom
K0TAR

3388. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 01:49:38 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <8f01774b-fbf8-4cd6-97e1-876c6d64f550@y9g2000yqg.googlegroups.com>
Source record: 15212

On May 29, 8:10 pm, tom <news4...@taring.org> wrote:
> Art Unwin wrote:
> > And we have not figured out radio radiation yet, even tho we have a
> > multitude of formulae from a century ago!
>
> Art, please do not include the majority of us here in your statements.
>
> What you really should be saying is YOU have not figured out EM
> radiation yet.
>
> I for one can design and build, with the help of STANDARD TEXTS
> (especially those many decades old!), almost any type of antenna or
> antenna array anyone could ever need. And it will work exactly as
> predicted if one takes into account normal environmental variables, such
> as buildings, trees and ground conductivity.
>
> This isn't unknown unpredictable territory, regardless of your claims,
> none of which have been proven, by the way. This stuff works, and we
> know how, and it's not the way you claim.
>
> tom
> K0TAR

Whoo aren't we sensitive! If the books say radiation is not "fully
understood "(. Tom with one exception Tom OK?) I will take them at
their word, well, at least until I publish the rest of the
story..GDay
By the way Tom, anybody can design an antenna as it is very hard for
them not to radiate but to design an antenna that is more efficient
than the present state of the art that is something else. For your
information you have never built an antenna that conforms in its
entirety to Maxwell';s laws thus you cannot possibly understand
radiation as presented by Maxwell. For instance, Einstein studied
Maxwell's laws in the hope of finding the properties of the "weak"
force. He failed. He then decided to move away from standard physics
to look at things from another view point but still failed. I know of
no books that illustrate the use of the "weak" force with respect to
radiation so would you say from your experience that Einstein was
wrong? Even the books do not print that suggestion. Now one scientist
has stated that radiation can be a point source which means the
radiation sphere of a radiator is of equal value at all points around
the arbitrary border, which of course is correct, and we are not
talking averages either. Pray tell me how I should go about making
such a radiator and what book is it to be found?

Best regards and lighten up
Art

3389. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 02:08:34 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <c125dfb4-73f7-43a2-b93e-d3de9ba50869@f19g2000yqh.googlegroups.com>
Source record: 15213

On May 29, 8:37 pm, tom <news4...@taring.org> wrote:
> tom wrote:
> > I for one can design and build, with the help of STANDARD TEXTS
> > (especially those many decades old!), almost any type of antenna or
> > antenna array anyone could ever need. And it will work exactly as
> > predicted if one takes into account normal environmental variables, such
> > as buildings, trees and ground conductivity.
>
> Speaking of texts, one of my co-workers gave me a wonderful paperback
> textbook last week "The Theory and Design of Circular Antenna Arrays" by
> James D. Tillman, Jr., The University of Tennessee Engineering
> Experiment Station, 1966.
>
> The design, testing, scope pictures and the wonderful racks of gear they
> built makes for a great piece of work.
>
> I have no idea why he had this book or where he got it, but am grateful
> to get it.
>
> tom
> K0TAR

Did it state that radiation was waves or particles and how he can
prove it ?
Is this in line with your extensive design of antennas?

3390. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 02:29:05 UTC
From: tom <news4792@taring.org>
Message-ID: <4a209a32$0$92358$8046368a@newsreader.iphouse.net>
Source record: 15214

Art Unwin wrote:
>
> Whoo aren't we sensitive! If the books say radiation is not "fully
> understood "

Nope not very sensitive, just don't like to lumped in with a loony.

And which books say it's not understood? Be specific, give examples.

> understood "(. Tom with one exception Tom OK?) I will take them at
> their word, well, at least until I publish the rest of the
> story..GDay
> By the way Tom, anybody can design an antenna as it is very hard for
> them not to radiate but to design an antenna that is more efficient
> than the present state of the art that is something else. For your

Hmm, my antennas, and probably everyone else's here, tend to be over 98%
efficient.

How much better are yours?

tom
K0TAR

3391. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 02:30:26 UTC
From: tom <news4792@taring.org>
Message-ID: <4a209a82$0$92358$8046368a@newsreader.iphouse.net>
Source record: 15215

Art Unwin wrote:
> On May 29, 8:37 pm, tom <news4...@taring.org> wrote:
>> tom wrote:
>>> I for one can design and build, with the help of STANDARD TEXTS
>>> (especially those many decades old!), almost any type of antenna or
>>> antenna array anyone could ever need. And it will work exactly as
>>> predicted if one takes into account normal environmental variables, such
>>> as buildings, trees and ground conductivity.
>> Speaking of texts, one of my co-workers gave me a wonderful paperback
>> textbook last week "The Theory and Design of Circular Antenna Arrays" by
>> James D. Tillman, Jr., The University of Tennessee Engineering
>> Experiment Station, 1966.
>>
>> The design, testing, scope pictures and the wonderful racks of gear they
>> built makes for a great piece of work.
>>
>> I have no idea why he had this book or where he got it, but am grateful
>> to get it.
>>
>> tom
>> K0TAR
>
> Did it state that radiation was waves or particles and how he can
> prove it ?
> Is this in line with your extensive design of antennas?

No comments needed here.

tom
K0TAR

3392. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 03:37:46 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <b38c8911-73c3-466e-8248-16bd6ab48442@f19g2000yqh.googlegroups.com>
Source record: 15216

On May 29, 9:30 pm, tom <news4...@taring.org> wrote:
> Art Unwin wrote:
> > On May 29, 8:37 pm, tom <news4...@taring.org> wrote:
> >> tom wrote:
> >>> I for one can design and build, with the help of STANDARD TEXTS
> >>> (especially those many decades old!), almost any type of antenna or
> >>> antenna array anyone could ever need. And it will work exactly as
> >>> predicted if one takes into account normal environmental variables, such
> >>> as buildings, trees and ground conductivity.
> >> Speaking of texts, one of my co-workers gave me a wonderful paperback
> >> textbook last week "The Theory and Design of Circular Antenna Arrays" by
> >> James D. Tillman, Jr., The University of Tennessee Engineering
> >> Experiment Station, 1966.
>
> >> The design, testing, scope pictures and the wonderful racks of gear they
> >> built makes for a great piece of work.
>
> >> I have no idea why he had this book or where he got it, but am grateful
> >> to get it.
>
> >> tom
> >> K0TAR
>
> > Did it state that radiation was waves or particles and how he can
> > prove it ?
> > Is this in line with your extensive design of antennas?
>
> No comments needed here.
>
> tom
> K0TAR

What ever is the matter with you? You seem to want to pick a fight for
some reason.
So you are a qualified antenna engineer and you dislike my aproach to
antennas because I am a mechanical engineer or what. I experiment with
antennas which means I am not totally governed by the books and I
enjoy that. I also study so that my results can be understood
mathematically. Now I am not an antenna engineer but when you and
others
could not relate the mathematics of Gaussian statics to Maxwell I
realised that the so called gurus were not experts after all and this
was confirmed when the term equilibrium flumoxed all of you. Now you
claim efficiencies of some sort, does it show up on a receiver S

metre? I doubt it. And you claim 98% efficiency but supply zero parameters.Heck, I can get a computer program to give me figures better than that but it is meaningless
But all of this really doesn't matter on this newsgroup, I am not a antenna engineer so in no way am I encroaching on the esteem you feel you posses as a antenna engineer because of your electrical background. Yes, you know more about antennas that is written in the books, because you committed it to memory whether it was correct or not to pass an exam. Feel better now?
Sleep well
Art

3393. Counterpoise theory

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 03:46:41 UTC
From: Al Fansome <al_fansome@hotmail.com>
Message-ID: <-cudnfdZTa21Mb3XnZ2dnUVZ_uWdnZ2d@supernews.com>
Source record: 15217

What exactly do counterpoise wires do for a vertical antenna? I realize that they allow an impedance match, but what is physically going on with the current that makes this possible?

3394. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 04:45:37 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <286c68b7-d7f3-4cd9-bd14-dba4ed1188a4@h11g2000yqb.googlegroups.com>
Source record: 15218

On May 29, 9:29 pm, tom <news4...@taring.org> wrote:
> Art Unwin wrote:
>
> > Whoo aren't we sensitive! If the books say radiation is not "fully
>
> > understood "
>
> Nope not very sensitive, just don't like to lumped in with a loony.
>
> And which books say it's not understood? Be specific, give examples.
>
snip>

Now now Tom, there is no need to lie to make a point. I said "fully
understood" big difference
Now to the books. A common title "fields and waves" What on earth have
waves got to do with radiation? Seems like the Moon makes waves and
people like you,and this thread is listed as sun spots ! Which is
correct?. I know, what ever the professor said as he determines who
passes or fails. Now as a mechanical engineer I have read no
explanation
as to how waves provide radiation because that is not fully understood
by those who write the books But now Tom, as an esteemed antenna
engineer and designer, you are now in a perfect position to explain to
all the little people how that actually works because you Tom
are an expert by your own words You fully understand radiation and
antennas. We also have the standard model which consists of the four
forces so educate the rest of us by explaining what force is used to
make waves that create communication. You ask for specifics well now
you have them. Time for you to provide answers or don't you have any ?
Now to the antennas that you have made, I warrant all of them were
planar probably Yagi's but as a electrical engineer you surely are
aware of Maxwell's laws with respect to radiation so why did you make
antennas that does not account for all forces involved as per Maxwell?
On top of that, there is no mention of waves in any electrical laws so
why does it keep coming up with respect to radiation? Still no answers
Tom Heh? So why is it that you now want to pick a fight with me?
Because we disagree on the means of the creation of radiation?
Sleep tight tonight
Art

>
> tom
> K0TAR

3395. Re: Counterpoise theory

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 04:46:39 UTC
From: dplatt@radagast.org
Message-ID: <faq6f6-pkm.ln1@radagast.org>
Source record: 15219

>What exactly do counterpoise wires do for a vertical antenna? I realize
>that they allow an impedance match, but what is physically going on with
>the current that makes this possible?

You can think of a counterpoise (somewhat simplistically) as "the other half of the antenna".

Start by considering a half-wave vertical dipole, fed in the center with coax. Equal-but-opposite currents flow out of the coax (from the center conductor, and from the inside of the shield) and into the radiating elements. Let's assume for the moment that the outside of the feedline is decoupled/choked (e.g. there's a 1:1 balun at the feedpoint) , so that current can't flow back down the outside of the coax. In this situation, equal currents flow from the coax onto the two halves of the dipole... and since they were opposite in direction inside the coax, and since the dipole wires go in opposite directions, the currents on the two halves of the dipole are in phase, and the RF fields created by them reinforce one another. Power flows efficiently from the coax to the dipole (reasonably low SWR, depending on coax impedance and the presence of nearby conductors) and you get a good signal on the air.

Now, take away half of the dipole... creating a vertical monopole, with no counterpoise.

You still want current to flow into the half-dipole... but you've got a problem. Current can flow easily from the center conductor of the coax to the vertical... but there's no good place for current to flow out from the inside of the feedline shield. It can't flow onto the lower half of the dipole (that's gone) and it can't flow back out along the outside of the feedline shield (the balun prevents that). Instead, the flow of current just stops... there's a very high impedance at the end of the coax shield (how high depends in part on how good a balun you've got). Instead of there being 70 ohms (nominal) of impedance at the feedpoint, there could be several thousand ohms (35 ohms from the vertical, and the rest from the abrupt current-stop at the end of the shield). You now have a terribly high SWR and can't get a signal out.

Now, fasten one or two wires to the coax shield (right by the feedpoint, on the antenna side of the balun). Cut 'em to 1/4 wavelength. You have now restored the current balance of the antenna... current coming out along the inside of the feedline can flow out along this wire (or wires), balancing the equal flow onto the vertical radiator.

If the wire(s) droop downwards (directly below the vertical) then you've completely restored the dipole... you'll see a 70-ohm (nominal) impedance at the feedpoint.

If, instead, you run the wire or wires out sideways, you'll see a different (lesser) impedance, and the antenna's radiation pattern will be somewhat different. Two 1/4-wave wires, stuck out in opposite directions, at a 90-degree angle to the vertical, form a simple basic "ground plane" antenna, There will be equal-and-opposite currents in these two wires, and the net RF radiation from them will be zero. In the simple case, in free space) you'll see an antenna feedpoint impedance of around 35 ohms.

Counterpoises can be used with more complex types of antennas, as well (i.e. with radiators other than 1/4 wavelength). In each case, their basic purpose is to create a "total antenna length" (radiator plus counterpoise) which is resonant or nearly so, so that currents flow easily from the feedpoint (seeing a convenient amount of resistance, and little or no reactance) and an efficient matching of feedline to antenna can be achieved.

If, instead of using a counterpoise, you simply don't put a balun at the feedpoint... then you may or may not end up with antenna which works acceptably. In this situation, the outside of the coax serves as a counterpoise-of-sorts. Whether it works well (allows for a decent match/SWR) is going to depend on the length of the coax and its grounding arrangement and its path.

This is why you sometimes hear people (particularly in the CB community) being very concerned about adjusting the length of the coax from radio to antenna, in order to get a better SWR. Whenever you hear this, you can be pretty sure that you're dealing with an antenna which isn't balanced and doesn't have a well-designed counterpoise or grounding arrangement, and the feedline is actually serving as part of the antenna (and often radiating RF where it isn't really wanted).

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will boycott any company which has the gall to send me such ads!

3396. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 05:29:29 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <Zu3Ul.1440$Cc1.441@nwrddc01.gnilink.net>
Source record: 15220

"Owen Duffy" <none@no.where> wrote in message
news:Xns9C1B5B4C93387nonenowhere@61.9.191.5...
> "John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
> news:H_YTl.1620$9L2.1015@nwrddc02.gnilink.net:
>
> ...
>> I seem to recall that a small loop has less inductance than a large
>> loop. I also seem to recall that the transformation between them is a
>> function of their inductances. So, a small loop would transform the
>> larger loop's impedance to an even lower impedance. Is this not so?
>
> You can think of it in terms of inductance, but visit what inductance
> really means (ie the relationship between inductance, current and flux).
>
> I gave you an explanation in terms of area of the two loops. If your feed
> loop os 20% of the area of the main loop, it intercepts 20% of the flux,
> the voltage induced in the feed loop is 20% (1/5) of the main loop
> voltage,

I understand this and I agree. It makes perfect sense.

> the impedance is transformed by 1/(1/5^2)=25, so a 2 ohm main
> loop is transformed to a 50 ohm load at the feed loop feed point.

This is the part with which I disagree. Can you show me why it is 25 rather
than 1/25?

(snipped section with which I agree)

> Owen

3397. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 05:45:03 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <J94Ul.103771$bi7.26434@newsfe07.iad>
Source record: 15221

"tom" <news4792@taring.org> wrote in message
news:4a208e25$0$92354$8046368a@newsreader.iphouse.net...
> tom wrote:

< snip >

> ... one of my co-workers gave me a wonderful paperback
> textbook last week "The Theory and Design of Circular Antenna Arrays" by
> James D. Tillman, Jr., The University of Tennessee Engineering
> Experiment Station, 1966.
>
> The design, testing, scope pictures and the wonderful racks of gear they
> built makes for a great piece of work.

Just a guess, but maybe it deals with the Wullenweber [or Wullenwever]
antenna, described here http://en.wikipedia.org/wiki/Wullenweber and
elsewhere.

The article cites Hanza, Okinawa, Japan, where I was stationed in 1965/66
and worked inside the antenna building. The basement was filled with
multicouplers and several very large spinning goniometers to pick off the
desired signals. It also cites the array at Imperial Beach, which is not
far. I see it several times a year but it was abandoned years ago and may
be coming down. I wonder who gets all that nice RF cable.

"Off-topic Sal"

3398. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 07:08:26 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <NX4Ul.98520$9J5.68584@newsfe13.iad>
Source record: 15222

"Cecil Moore" <nospam@w5dxp.com> wrote in message
news:bMUTl.27639$c45.1651@nlpi065.nbdc.sbc.com...

< snip >

> The velocity factor of the twinlead might be as much
> as 20% different from the copper tubes. If you use
> the same dimensions, the resonant frequency will be
> too low. Did you compensate for velocity factor?
> Did you check the resonant frequency with something
> like an MFJ-259B?

< snip >

> Seems you need to make the adjustments using a
> throw-away version of the antenna. Once you determine
> the proper dimensions, you can build the final version.
>
> I would start by shaving the insulation off both
> stub wires so they can be soldered to the coax and
> chopping off 10% of the length of the 1/2WL section.

Yes! All of the above!

Also, it has been my experience that the recommended quarter-inch gap cut in
one of the twinlead conductors [to create the stub section] is insufficient.
I make it at least a half-inch.

3399. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 07:08:40 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <%X4Ul.98521$9J5.76015@newsfe13.iad>
Source record: 15223

"Rich Griffiths" <richgrif@one.net> wrote in message
news:fLSdnVUcXc_NXIPXnZ2dnUVZ_hdi4p2d@posted.nuvoxcommunications...
> On Thu, 28 May 2009 11:15:52 -0400, Bob D. wrote:
>
> > I decided to install a 2m FM rig in my garage to stay in touch with the
> > local repeaters while working on the car.

< snip >

> A J-pole for outdoor use can be easy to build, easy to mount, and very
> rugged. For indoor use, you might want to settle for a simple twin-lead
> J-pole, which is even easier to build and can be easy to mount.

< snip >

> I'd go with whatever seems easiest to make and easiest to mount in your
> particular situation.

Amen. I have long been a fan of the copper pipe J-pole.. I've built about
two dozen of them over the years, 6m, 2m, 220 and 440. We have three of
mine on the local fire station for RACES. We go up on the roof and retape
the connectors every few years -- that's it.

My only deviation from the many Internet plans has been the inclusion of a
100 pF cap inline with the center conductor at the feed point if the VSWR
minimum wasn't 1:1 somewhere in the band after the first couple of tries.

Yes, you should choke the feedline, if not with ferrites, then with a few
tight turns of the coax.

The copper pipe j-pole can mount to almost anything; there's no significant
RF current in the lowest pipe section (below the J).

"Sal"

3400. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 07:19:26 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C1BB03AC2B50nonenowhere@61.9.191.5>
Source record: 15224

"John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
news:Zu3Ul.1440$Cc1.441@nwrddc01.gnilink.net:

>
> "Owen Duffy" <none@no.where> wrote in message
> news:Xns9C1B5B4C93387nonenowhere@61.9.191.5...
>> "John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
>> news:H_YTl.1620$9L2.1015@nwrddc02.gnilink.net:
>>
>> ...
>>> I seem to recall that a small loop has less inductance than a large
>>> loop. I also seem to recall that the transformation between them is
>>> a function of their inductances. So, a small loop would transform
>>> the larger loop's impedance to an even lower impedance. Is this not
>>> so?
>>
>> You can think of it in terms of inductance, but visit what inductance
>> really means (ie the relationship between inductance, current and
>> flux).
>>
>> I gave you an explanation in terms of area of the two loops. If your
>> feed loop os 20% of the area of the main loop, it intercepts 20% of
>> the flux, the voltage induced in the feed loop is 20% (1/5) of the
>> main loop voltage,
>
>
> I understand this and I agree. It makes perfect sense.
>
>
>> the impedance is transformed by 1/(1/5^2)=25, so a 2 ohm main
>> loop is transformed to a 50 ohm load at the feed loop feed point.
>
That is wrong, isn't it? What was I ever thinking?

The main loop isn't anything like 2 ohms at resonance, it is much much
higher, and the voltage is quite high for a given power.

The reduction in flux cutting the feed loop means that feed loop voltage
is reduced proportionately to area, and therefore the impedance (in a
lossless system) would be decreased by the square of the voltage
reduction

>
> This is the part with which I disagree. Can you show me why it is 25
> rather than 1/25?

It is, but it is not 2 ohms that is reduced, it is something much much higher.

Thanks.

Owen

3401. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 09:08:52 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvqjt3oas1@node1.news.atman.pl>
Source record: 15225

"tom" <news4792@taring.org> wrote
news:4a2087b8$0$92352$8046368a@newsreader.iphouse.net...
> Art Unwin wrote:
>> And we have not figured out radio radiation yet, even tho we have a
>> multitude of formulae from a century ago!
>
> Art, please do not include the majority of us here in your statements.
>
> What you really should be saying is YOU have not figured out EM radiation
> yet.
>
> I for one can design and build, with the help of STANDARD TEXTS
> (especially those many decades old!), almost any type of antenna or
> antenna array anyone could ever need. And it will work exactly as
> predicted if one takes into account normal environmental variables, such
> as buildings, trees and ground conductivity.

Everybody should see that engineering people know his job.
>
> This isn't unknown unpredictable territory, regardless of your claims,
> none of which have been proven, by the way. This stuff works, and we know
> how, and it's not the way you claim.

You all know how. You have yours own STANDARD TEXTS. But I do not know the
one thing. Which part of the antenna radiate.
See;
(http://people.seas.harvard.edu/~jones/cscie129/nu_lectures/lecture6/hertz/Hertz_exp.html

"According to theory, if electromagnetic waves were spreading from the
oscillator sparks"

The theory is from XIX century. The oscillating sparks are in the centre of
the Hertz dipole.
What do you assume in your predictions. Are the radio waves radiated from
the end (no current) of an antena or from the places of the wire where the
current is max?
S*

3402. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 10:06:41 UTC
From: LAB <no@mail.com>
Message-ID: <4a210532$0$712$5fc30a8@news.tiscali.it>
Source record: 15226

I have been surprised for the twin lead problems because i had already
made another Slim Jim using 2mm bare copper wire on the sides of a black
"electric" plastic tube (d=about 2cm) and I get the same good performances
of the copper tube...

--
Gianluca

3403. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 10:30:26 UTC
From: Dave <noone@nowhere.com>
Message-ID: <6V7Ul.1453$Cc1.968@nwrddc01.gnilink.net>
Source record: 15227

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gvqjt3oas1@node1.news.atman.pl...
>
> "tom" <news4792@taring.org> wrote
> news:4a2087b8$0$92352$8046368a@newsreader.iphouse.net...
>> Art Unwin wrote:
>>> And we have not figured out radio radiation yet, even tho we have a
>>> multitude of formulae from a century ago!
> What do you assume in your predictions. Are the radio waves radiated from
> the end (no current) of an antena or from the places of the wire where the
> current is max?
> S*

both, and neither, art's radiation comes from magical levitating
antidiamagnetic neutrinos from the sun that jump off of antennas when the
current flows.

3404. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 10:34:14 UTC
From: Dave <noone@nowhere.com>
Message-ID: <GY7Ul.1454$Cc1.250@nwrddc01.gnilink.net>
Source record: 15228

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:b38c8911-73c3-466e-8248-16bd6ab48442@f19g2000yqh.googlegroups.com...
On May 29, 9:30 pm, tom <news4...@taring.org> wrote:
>Now I am not an antenna engineer but when you and others
>could not relate the mathematics of Gaussian statics to Maxwell I
>realised that the so called gurus were not experts after all and this

I did, and you still refused to accept that Gauss's law IS part of Maxwell's equations as they are published in every text book in the last 100 years or so.

>was confirmed when the term equilibrium flumoxed all of you.

because equilibrium has no place in electromagnetic radiation which by definition is a flow of energy, therefore not in equilibrium... no flow, no radiation... so your magical equilibrium antennas can't radiate, which is pretty much what everyone agrees on.

3405. spider at height

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 11:31:34 UTC
From: ml <m@di.net>
Message-ID: <m-425DD2.07313430052009@news.optonline.net>
Source record: 15229

hi

I was reading about a few different variants of the spider beam type multiband HF antennas.

A few of the designers seemed to indicate to me that the antenna works 'best' ground mounted at around 30-40 feet or so but not greatly higher.

When I asked if it would work 'ok' on the roof of my building at 100+ feet was told no way over 40ft it would work poorly

It started me thinking, I couldn't really see why it wouldn't work or work better at height, or at least as good

I do understand potential for change in radiation angle, but not why the antenna gain would take a dive

the kinds i've seen seemed to be either moxon like kinda simular so I would think that these designs would be fine at height if not better (for certain things)

anyone think of something i might have overlooked in the spider like designs that would actually 'kill it' at 100ft? (talkin about gain/electrical performance NOT wind damage)

just couldn't see anything that would prevent it from working at height

thanks

3406. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 13:08:38 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <08a982b6-d65b-4f67-a9fd-1703d80f6f0a@t21g2000yqi.googlegroups.com>
Source record: 15230

On May 30, 5:34 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:b38c8911-73c3-466e-8248-16bd6ab48442@f19g2000yqh.googlegroups.com...
> On May 29, 9:30 pm, tom <news4...@taring.org> wrote:
>
> >Now I am not an antenna engineer but when you and others
> >could not relate the mathematics of Gaussian statics to Maxwell I
> >realised that the so called gurus were not experts after all and this
>
> I did, and you still refused to accept that Gauss's law IS part of Maxwell's
> equations as they are published in every text book in the last 100 years or
> so.
>
> >was confirmed when the term equilibrium flumoxed all of you.
>
> because equilibrium has no place in electromagnetic radiation which by
> definition is a flow of energy, therefore not in equilibrium... no flow, no
> radiation... so your magical equilibrium antennas can't radiate, which is
> pretty much what everyone agrees on.

Gauss's law of Statics is the subject law.
Waves have no part in that picture can'tyou get that into your head.
The Moon creats waves The Sun does not
Again "statics" which is the subject of particles is what I was
talking about.

3407. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 13:35:32 UTC
From: Dave <noone@nowhere.com>
Message-ID: <ECaUl.1481$Cc1.1381@nwrddc01.gnilink.net>
Source record: 15231

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:08a982b6-d65b-4f67-a9fd-1703d80f6f0a@t21g2000yqi.googlegroups.com...

>Gauss's law of Statics is the subject law.

Ok, you capitalize that as if it were a specific law... provide a reference,
other than your own posts, for "Gauss's law of Statics". If you can't do
that, provide the specific equation you are refering to.

3408. Re: Dual-Z0 Stubs

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 14:22:18 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <obbUl.19685$D32.2043@flpi146.ffdc.sbc.com>
Source record: 15232

Jim Kelley wrote:
> Given that the speed of light is roughly 3 x10^8 meters per second, and
> it would ordinarily take less than a nanosecond to traverse the 10",
> it's not *THAT* unbelievable.

It is unbelievable for a device with a VF of 0.04
Do you understand how to include VF in a calculation?

> The delay would depend on the series
> inductance and shunt capacitance of the coil. What are those numbers?

All of those factors are included in the calculator at:

http://hamwaves.com/antennas/inductance.html

Tom's coil is 100 turns, 50.8mm coil diameter, 254mm long,
wire diameter of 1.024mm, and frequency = 4 MHz.

With a wavelength of 75m, exactly how does one obtain a
3 nS delay when the propagation factor is 2.12 radians/meter?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3409. Re: Counterpoise theory

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 14:25:25 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <iebUl.19686$D32.9291@flpi146.ffdc.sbc.com>
Source record: 15233

Al Fansome wrote:
> What exactly do counterpoise wires do for a vertical antenna? I realize
> that they allow an impedance match, but what is physically going on with
> the current that makes this possible?

Visualize a 1/2WL center-fed dipole with one element
laying on the ground. The wire on the ground is the
counterpoise. What happens to the radiation when the
wire is laying on the ground?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3410. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 14:33:35 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <1tbUl.24795$as4.48@nlpi069.nbdc.sbc.com>
Source record: 15234

LAB wrote:
> I have been surprised for the twin lead problems because i had already
> made another Slim Jim using 2mm bare copper wire on the sides of a black
> "electric" plastic tube (d=about 2cm) and I get the same good performances
> of the copper tube...

The velocity factor of the insulated twinlead is much
lower than bare wires. If you don't understand velocity
factor, please study up on the subject. Velocity factor
can make as much as a 20% difference in element lengths
between bare wires and insulated twinlead. The
characteristic impedance is also different causing the
50 ohm feedpoint position to change.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3411. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 14:46:53 UTC
From: Spamm Trappe <bit-bucket@config.com>
Message-ID: <slrnh22hmt.5dl.bit-bucket@shell.config.com>
Source record: 15235

On Fri, 29 May 2009 17:09:45 -0700 (PDT), Art Unwin wrote:
> On May 29, 4:21?pm, Jim Kelley <jwkel...@uci.edu> wrote:
>> For what it's worth, the latest prediction:
>>
>> http://science.nasa.gov/headlines/y2009/29may_noaaprediction.htm?list...
>>
>> ac6xg
>
> Interesting Jim but just a small bit of knowledge. The Cern experiment
> scheduled to start this year seems to me to be an attempt to stop
> particles in their tracks faster that the Earth's atmosphere can.

It sure doesn't take you long to hijack and deflect a thread into a
Troll-A-Rama.

3412. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 14:50:43 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <35376dd5-432d-400f-995f-e93befa018d5@c36g2000yqn.googlegroups.com>
Source record: 15236

On May 30, 9:35 am, "Dave" <no...@nowhere.com> wrote:
> "Art Unwin" <ArthurUn...@gmail.com> wrote in message
>
> news:08a982b6-d65b-4f67-a9fd-1703d80f6f0a@t21g2000yqi.googlegroups.com...
>
> >Gauss's law of Statics is the subject law.
>
> Ok, you capitalize that as if it were a specific law... provide a reference,
> other than your own posts, for "Gauss's law of Statics". If you can't do
> that, provide the specific equation you are refering to.

I always thought Art had confused statics with statistics.

3413. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 15:03:28 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <bnh225tff0l7j915sqgovfl5asqqvrp6re@4ax.com>
Source record: 15237

On Sat, 30 May 2009 07:19:26 GMT, Owen Duffy <none@no.where> wrote:

>The main loop isn't anything like 2 ohms at resonance, it is much much
>higher, and the voltage is quite high for a given power.

Hi Owen,

By your latest comment, it appears you have jumped off the rails
completely. Let's look at the spec:

On Wed, 27 May 2009 13:36:53 -0400, Michael Coslo <mjc5@psu.edu>
wrote:
>It's Octagonal, .75 inch copper tubing, around 8 feet in diameter. It's
>designed to just reach into the 80 meter voice segment with it's
>capacitor setup.
which through any of several methods reveals radiation resistance
equals 0.27 Ohms. The need for large conductors, high voltage
components, and loop (which, for 80M would be half a meter) coupling
to obtain the proper match are all found in their proper
relationships.

>Upper end is either 17 or 15 meters.
where the ratio of the physical dimensions to the wavelength (roughly
half wave) renders a much higher value.

Reggie covered all of this years ago. Unfortunately, he buried the
best of his legacy in a drift of bantering making it an extreme chore
to mine Google for the relevant postings.

73's
Richard Clark, KB7QHC

3414. Re:spider at hieght

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 15:32:48 UTC
From: Rollie <rollie@iowatelecom.net>
Message-ID: <gvrjj4fab1@news.netins.net>
Source record: 15238

I'm thinking jealousy my enter into their thinking. Using a vertical antenna cut for one or two bands worked better for me the higher I went. A friend has an all band that the factory says mount on the ground with at least four long ground radials out from the base. It's around 35 feet tall, but all bands don't work equally well. The higher the frequency the lower the effectiveness of the antenna. Maybe it would work okay higher, but the ground field may not be a effective. Just an observation.............KD0FGX

3415. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 16:06:58 UTC
From: JB <nospam@goofball.net>
Message-ID: <CQcUl.1702$9L2.61@nwrddc02.gnilink.net>
Source record: 15239

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gvp0bo$lo9$2@news.jpl.nasa.gov...
> John KD5YI wrote:
> > "JB" <nospam@goofball.net> wrote in message
> > news:clSTl.1516$9L2.889@nwrddc02.gnilink.net...
> >
> >>
> >> The 1/4 wave ground plane has a useless pattern. Main lobe at about 30
> >> degrees above horizon, but broad enough to be usable and simple to
build.
> >
> >
> > The quarter-wave antenna's height above ground has much more to do with
> > the elevation angle than the fact that the antenna is a quarter-wave
> > ground plane. Using EZNEC, I see that a quarter wave antenna situated 3
> > wavelengths above real/high accuracy ground of medium characteristics
> > has a main lobe 4 degrees above the horizon. At that angle, the gain is
> > 5.1 dBi. You can confirm this if you have a copy of EZNEC.
> >
> > John
>
> If you're just looking for a portable vertical antenna, just a wire on
> the end of the coax, and hanging it up, works pretty well. The shield of
> the coax (outside surface) serves as the other half of the dipole.
> Heck, it will have a bizarre pattern, and couple RF everywhere, but
> you're talking about an antenna you're hanging out of a hotel window or
> something.. You're not doing earth-venus-earth radar tests... you're
> just getting the antenna away from where you are sitting to "outside"..

If you are using such construction, why not just build a coax type of
colinear? It isn't so difficult to add a section of outer shield for
decoupling. Have you priced PA hybrids lately?

BTW any degree uptilt is usually worthless unless you are deliberately
limiting coverage to the horizon. and anything significantly higher in
elevation is line of sight anyway. For ground level base station or
repeater that covers a localized area, a J-pole is attractive because of its
broad pattern that allows numerous reflections through and between the
buildings. I've been told that an upside down ground plane ought to work
better, but it doesn't

3416. antenna geo friendly listing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 16:21:47 UTC
From: ml <m@di.net>
Message-ID: <m-2A12BA.12214730052009@news.optonline.net>
Source record: 15240

hi

Does anyone know of any kind of lists that breaks down
towns/cities etc that are ham tower friendly?

tnx

3417. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 16:43:45 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvreho$u4$1@node1.news.atman.pl>
Source record: 15241

"Dave" <noone@nowhere.com>wrote
news:6V7Ul.1453$Cc1.968@nwrddc01.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gvqjt3oas1@node1.news.atman.pl...
>>
>> "tom" <news4792@taring.org> wrote
>> news:4a2087b8$0$92352$8046368a@newsreader.iphouse.net...
>>> Art Unwin wrote:
>>>> And we have not figured out radio radiation yet, even tho we have a
>>>> multitude of formulae from a century ago!
>> What do you assume in your predictions. Are the radio waves radiated
>> from the end (no current) of an antena or from the places of the wire
>> where the current is max?
>> S*
>
> both, and neither, art's radiation comes from magical levitating
> antidiamagnetic neutrinos from the sun that jump off of antennas when the
> current flows.

Earlier Art wrote: "For your information you have never built an antenna
that conforms in its
entirety to Maxwell';s laws thus you cannot possibly understand
radiation as presented by Maxwell. For instance, Einstein studied
Maxwell's laws in the hope of finding the properties of the "weak"
force. He failed. He then decided to move away from standard physics
to look at things from another view point but still failed."

So Art is looking for the next theory. It is a good way to know the results
of experiments. Maxwell did not see the antenas. You all do. Tell than us
which part radiate the radio waves.
S*
>

3418. Re: What's the Dealio with the J-pole?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 17:37:54 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <S9eUl.1511$Cc1.810@nwrddc01.gnilink.net>
Source record: 15242

"Jim Lux" <james.p.lux@jpl.nasa.gov> wrote in message
news:gvp0bo$lo9$2@news.jpl.nasa.gov...
> John KD5YI wrote:
>> "JB" <nospam@goofball.net> wrote in message
>> news:clSTl.1516$9L2.889@nwrddc02.gnilink.net...
>>
>>>
>>> The 1/4 wave ground plane has a useless pattern. Main lobe at about 30
>>> degrees above horizon, but broad enough to be usable and simple to
>>> build.
>>
>>
>> The quarter-wave antenna's height above ground has much more to do with
>> the elevation angle than the fact that the antenna is a quarter-wave
>> ground plane. Using EZNEC, I see that a quarter wave antenna situated 3
>> wavelengths above real/high accuracy ground of medium characteristics has
>> a main lobe 4 degrees above the horizon. At that angle, the gain is 5.1
>> dBi. You can confirm this if you have a copy of EZNEC.
>>
>> John
>
> If you're just looking for a portable vertical antenna, just a wire on the
> end of the coax, and hanging it up, works pretty well. The shield of the
> coax (outside surface) serves as the other half of the dipole. Heck, it
> will have a bizarre pattern, and couple RF everywhere, but you're talking
> about an antenna you're hanging out of a hotel window or something..
> You're not doing earth-venus-earth radar tests... you're just getting the
> antenna away from where you are sitting to "outside"..

Bob D. -

Please don't take my comments as being negative about a J-Pole. I happen to like them for other reasons. They can be made very rugged. The few I made started out as a 30-foot mast. 3/4 wavelengths down from the top I mounted a horizontal metal bracket. To that I mounted a vertical 1/4 wave tube. I then used automotive hose clamps to connect a 1/2 wavelength piece of coax near the bottom just above the horizontal bracket. I adjusted the connection point of the coax to find the lowest SWR point and then replaced the 1/2 wave piece of coax with my longer lead-in. I put some weatherproofing on the coax.

I ran 10 gauge wire from my nearby ground rod over to the bottom of the mast. What I like about this arrangement is that the entire assembly is grounded. I once had a nearby lightning strike cause my IC2AT to block signals for several seconds while I was listening to a local repeater with a

home-made ground plane. Charge buildup, I guess. That never happened with my J-Pole. That thing worked flawlessly for several years until I replaced it with a commercial dual-band (expensive) antenna.

Have fun.

73,
John

3419. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 17:39:44 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <p7r2255mff1dam7u8ock1jdsk97mqv7klv@4ax.com>
Source record: 15243

On Sat, 30 May 2009 18:43:45 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:
> "Dave" <noone@nowhere.com>wrote
>news:6V7Ul.1453$Cc1.968@nwrddc01.gnilink.net...
>> both, and neither,
>which part radiate the radio waves.

I can see a struggle developing here between you and Art as to who has
the claim to wear the cap and bells.

73's
Richard Clark, KB7QHC

3420. Re: spider at height

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 17:43:14 UTC
From: Roy Lewallen <w7el@eznec.com>
Message-ID: <ra6dnfv56vSn7bzXnZ2dnUVZ_uSdnZ2d@posted.easystreetonline>
Source record: 15244

Nearly all horizontally polarized antennas of a few elements have a very broad free space elevation pattern. So when mounted over ground, they all tend to have nearly the same elevation pattern (except for front-back directivity), dictated primarily by the height above ground. In other words, a spider beam, quad, or two or three element Yagi has about the same elevation pattern as a dipole at the same height. There are some heights which are particularly good, and some which are particularly bad, for working stations certain distances away because of the elevation angles where the maxima and nulls occur. But those heights are essentially the same for dipoles, quads, and Yagis as they are for spider beams.

Roy Lewallen, W7EL

ml wrote:
> hi
>
> I was reading about a few different variants of the spider beam type
> multiband HF antennas.
>
> A few of the designers seemed to indicate to me that the antenna
> works 'best' ground mounted at around 30-40 feet or so but not
> greatly higher.
>
> When I asked if it would work 'ok' on the roof of my building at
> 100+ feet was told no way over 40ft it would work poorly
>
>
>
> It started me thinking, I couldn't really see why it wouldn't
> work or work better at height, or at least as good
>
> I do understand potential for change in radiation angle, but not why
> the antenna gain would take a dive
>
>
>
> the kinds i've seen seemed to be either moxon like kinda
> simular so I would think that these designs would be fine at
> height if not better (for certain things)
>
>
> anyone think of something i might have overlooked in the spider like
> designs that would actually 'kill it' at 100ft? (talkin about
> gain/electrical performance NOT wind damage)

>
>
> just couldn't see anything that would prevent it from working at
> height
>
>
>
>
> thanks

3421. Re: antenna geo friendly listing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 18:01:17 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <qls225di3rus15fmvpek3b46lsthb0qe4k@4ax.com>
Source record: 15245

On Sat, 30 May 2009 12:21:47 -0400, ml <m@di.net> wrote:

>hi

Higher.

>Does anyone know of any kind of lists that breaks down
>towns/cities etc that are ham tower friendly?

I couldn't find such a list, but you might find reading this old eham
thread useful for explaining why there are no such lists:
<http://www.eham.net/articles/10077>
How friendly do you want? No tower restrictions of any kind? There
are various degrees. For example, just about any city or county that
has a tower ordinance, will tend to restrict the installation of ham
radio towers in some way. If you're serious, just check with the city
or county planning department for tower ordinances. You'll also find
that tower policy is highly dependent on those making the decisions.
Without rigid guidelines, a traditionally friendly planning
department, might easily become hostile if the composition and
membership changes.

Good luck.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3422. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 18:55:40 UTC
From: Dale Parfitt <parinc1@verizon.net>
Message-ID: <MifUl.1759$9L2.874@nwrddc02.gnilink.net>
Source record: 15246

"Richard Clark" <kb7qhc@comcast.net> wrote in message
news:p7r2255mff1dam7u8ock1jdsk97mqv7klv@4ax.com...
> On Sat, 30 May 2009 18:43:45 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>> "Dave" <noone@nowhere.com>wrote
>>news:6V7Ul.1453$Cc1.968@nwrddc01.gnilink.net...
>>> both, and neither,
>>which part radiate the radio waves.
>
> I can see a struggle developing here between you and Art as to who has
> the claim to wear the cap and bells.
>
> 73's
> Richard Clark, KB7QHC

I think Szczepan can take Art in best out of three falls. Neither seems to have an interest in real world antennas. Perhaps there is a rec.radio.magicalphysics group they could move to?

Dale W4OP

3423. Re: antenna geo friendly listing

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 18:59:31 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <153e67eb-87ab-49ed-a0b7-d289e997d068@l28g2000vba.googlegroups.com>
Source record: 15247

On May 30, 2:01 pm, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sat, 30 May 2009 12:21:47 -0400, ml <m...@di.net> wrote:
> >hi
>
> Higher.
>
> >Does anyone know of any kind of lists   that breaks down
> >towns/cities etc that are   ham tower   friendly?
>
> I couldn't find such a list, but you might find reading this old eham
> thread useful for explaining why there are no such lists:
> <http://www.eham.net/articles/10077>
> How friendly do you want? No tower restrictions of any kind? There
> are various degrees. For example, just about any city or county that
> has a tower ordinance, will tend to restrict the installation of ham
> radio towers in some way. If you're serious, just check with the city
> or county planning department for tower ordinances. You'll also find
> that tower policy is highly dependent on those making the decisions.
> Without rigid guidelines, a traditionally friendly planning
> department, might easily become hostile if the composition and
> membership changes.
>
> Good luck.
>
> --
> Jeff Liebermann   je...@cruzio.com
> 150 Felker St #D   http://www.LearnByDestroying.com
> Santa Cruz CA 95060http://802.11junk.com
> Skype: JeffLiebermann   AE6KS   831-336-2558

Most rural areas are very ham friendly when it comes to antennas but
you can get blamed for every flake of snow on their TV. I was once
getting blamed for periodically wiping out all the TV in about 4
blocks. It turned out that one of the people who complained to the FCC
about me owned the source of the problem. Her antenna mounted preamp
would break into oscilation.

Anyway I have found that most places where you can find $300K+ homes
in close proximity to run down mobile homes is usually pretty ham
friendly.

Jimmie

3424. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 19:15:00 UTC
From: jimp@specsol.spam.sux.com
Message-ID: <hmc8f6-38d.ln1@mail.specsol.com>
Source record: 15248

Dale Parfitt <parinc1@verizon.net> wrote:
>
> "Richard Clark" <kb7qhc@comcast.net> wrote in message
> news:p7r2255mff1dam7u8ock1jdsk97mqv7klv@4ax.com...
>> On Sat, 30 May 2009 18:43:45 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
>> wrote:
>>> "Dave" <noone@nowhere.com>wrote
>>>news:6V7Ul.1453$Cc1.968@nwrddc01.gnilink.net...
>>>> both, and neither,
>>>which part radiate the radio waves.
>>
>> I can see a struggle developing here between you and Art as to who has
>> the claim to wear the cap and bells.
>>
>> 73's
>> Richard Clark, KB7QHC
>
> I think Szczepan can take Art in best out of three falls. Neither seems to
> have an interest in real world antennas. Perhaps there is a
> rec.radio.magicalphysics group they could move to?
>
> Dale W4OP

alt.support.alzheimers

--
Jim Pennino

Remove .spam.sux to reply.

3425. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 19:38:08 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <ae1413f0-0177-496c-b07f-38e38b4087c6@t11g2000vbc.googlegroups.com>
Source record: 15249

On May 30, 10:33 am, Cecil Moore <nos...@w5dxp.com> wrote:
> LAB wrote:
> > I have been surprised for the twin lead problems because i had already
> > made another Slim Jim using 2mm bare copper wire on the sides of a black
> > "electric" plastic tube (d=about 2cm) and I get the same good performances
> > of the copper tube...
>
> The velocity factor of the insulated twinlead is much
> lower than bare wires. If you don't understand velocity
> factor, please study up on the subject. Velocity factor
> can make as much as a 20% difference in element lengths
> between bare wires and insulated twinlead. The
> characteristic impedance is also different causing the
> 50 ohm feedpoint position to change.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Whats the advantage of the Slim Jim over a plan old J antenna.

Jimmie

3426. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 19:38:18 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <f38a69aa-04f3-4257-84ec-bc21a4071e30@f19g2000yqo.googlegroups.com>
Source record: 15250

On May 30, 1:55 pm, "Dale Parfitt" <pari...@verizon.net> wrote:
> "Richard Clark" <kb7...@comcast.net> wrote in message
>
> news:p7r2255mff1dam7u8ock1jdsk97mqv7klv@4ax.com...
>
> > On Sat, 30 May 2009 18:43:45 +0200, Szczepan Bia?ek <sz.bia...@wp.pl>
> > wrote:
> >> "Dave" <no...@nowhere.com>wrote
> >>news:6V7Ul.1453$Cc1.968@nwrddc01.gnilink.net...
> >>> both, and neither,
> >>which part radiate the radio waves.
>
> > I can see a struggle developing here between you and Art as to who has
> > the claim to wear the cap and bells.
>
> > 73's
> > Richard Clark, KB7QHC
>
> I think Szczepan can take Art in best out of three falls. Neither seems to
> have an interest in real world antennas. Perhaps there is a
> rec.radio.magicalphysics group they could move to?
>
> Dale W4OP

Heh I just want you all to keep posting regarding your knowledge of
antennas. The more you post the more you reveal yourselves. I was a
mechanical engineer not a antenna or electrical engineer so I am
struggling just to get on the ladder of knowledge. There are a few
here that feel they are best qualified to judge with respect to
antennas. I just can't make them out. Now we have Tom competing for
the top spot because he has made antennas to work and is anxious to
let everybody know about it Yup 98% efficient he states
That 98% of radiation that went to the wrong place.What has he
accomplished that nobody else has done Now where did that other 2% go
possibly hiding inside the radiator tube? Has he accounted for a
everything involved in the generation of radiation? Does he know what
radiation is and what creates it? Now will somebody explain to me why
the subject
of waves keep coming up when radiation is discussed and do the waves
tip over when they get to their destination and dump dots and dashes
all over the place? Every body is keeping mum as to what creates
radiation because none can answer the question They only can ask
questions to divert the spot light else where. Perhaps the "tide" has
turned with respect to Maxwell and it is time to surf the "waves"!

3427. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 20:16:59 UTC
From: Dave <noone@nowhere.com>
Message-ID: <%ugUl.1766$9L2.644@nwrddc02.gnilink.net>
Source record: 15151

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gvreho$u4$1@node1.news.atman.pl...
> So Art is looking for the next theory. It is a good way to know the
> results of experiments. Maxwell did not see the antenas. You all do. Tell
> than us which part radiate the radio waves.

art is just babbling.

which part radiates?? the whole thing radiates of course.

3428. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 20:20:56 UTC
From: Dave <noone@nowhere.com>
Message-ID: <IygUl.1767$9L2.299@nwrddc02.gnilink.net>
Source record: 15152

"Art Unwin" <ArthurUnwin@gmail.com> wrote in message
news:f38a69aa-04f3-4257-84ec-bc21a4071e30@f19g2000yqo.googlegroups.com...
>> I think Szczepan can take Art in best out of three falls. Neither seems
>> to
>> have an interest in real world antennas. Perhaps there is a
>> rec.radio.magicalphysics group they could move to?

not even close, art has him for crackpot theories hands down.

>Every body is keeping mum as to what creates
>radiation because none can answer the question.

you haven't asked that question, you have stated your theory about magical
levitating anti-diamagnetic neutrinos. according to Maxwell's equations as
supported by detailed observations and calculations over the last 100 years
or more, accelerating charges create radiation.

3429. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 20:29:59 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <qv4325dqg27um7bp994mdb3ullrfp64e6o@4ax.com>
Source record: 15153

On Sat, 30 May 2009 12:38:08 -0700 (PDT), JIMMIE
<JIMMIEDEE123@YAHOO.COM> wrote:

>Whats the advantage of the Slim Jim over a plan old J antenna.

It has this coooool name that gives it at least 3.78dB advantage over
the name J-Pole (which, for the same nominal advantage (nominal
meaning name), has about a 5dBd gain over a rubber ducky).

If you want another 3dB nominal advantage, tag the word fractal to it:
Slim Jim Fractal J-Pole Antenna
of course, this being crass and a populist slant toward CBers, you
could tart the name up with academic trappings:
Slim Jim Fractal Gaussian Particels J-Pole Antenna
without bringing so much as 14.2dB loss for your effort.

Through the simple addition of a 2 meter sized dish, you can make it
omindirectional on the 160M band.

73's
Richard Clark, KB7QHC

3430. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 21:05:16 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <dchUl.30858$yr3.24350@nlpi068.nbdc.sbc.com>
Source record: 15154

JIMMIE wrote:
> Whats the advantage of the Slim Jim over a plan old J antenna.

Apparently, the take-off-angle:

http://www.para.org.ph/membersarticles/DU1ANV/Slim%20Jim.htm
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3431. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 21:54:44 UTC
From: Owen Duffy <none@no.where>
Message-ID: <Xns9C1C507CD41BFnonenowhere@61.9.191.5>
Source record: 15155

Richard Clark <kb7qhc@comcast.net> wrote in
news:bnh225tff0l7j915sqgovfl5asqqvrp6re@4ax.com:

> On Sat, 30 May 2009 07:19:26 GMT, Owen Duffy <none@no.where> wrote:
>
>>The main loop isn't anything like 2 ohms at resonance, it is much much
>>higher, and the voltage is quite high for a given power.
>
> Hi Owen,
>
> By your latest comment, it appears you have jumped off the rails
> completely. Let's look at the spec:
>
> On Wed, 27 May 2009 13:36:53 -0400, Michael Coslo <mjc5@psu.edu>
> wrote:
>>It's Octagonal, .75 inch copper tubing, around 8 feet in diameter. It's
>>designed to just reach into the 80 meter voice segment with it's
>>capacitor setup.
> which through any of several methods reveals radiation resistance
> equals 0.27 Ohms. The need for large conductors, high voltage
> components, and loop (which, for 80M would be half a meter) coupling
> to obtain the proper match are all found in their proper
> relationships.

My reckoning:

I ran up a model in NEC of a vertical circular loop of 2.4m diameter,
made of 19mm dia copper conductor, and located with its centre 3m above
average ground.

The feedpoint impedance is 0.13+j168 at 3.5MHz.

If that was resonated with a lossless capacitor, the parallel load
impedance would be about 220k+j0.

To transform that to 50+j0, the impedance ratio is 4400:1, the voltage
ratio is 4400^0.5:1 =66:1, the areas need to be in a ratio of 1:66, the
diameters (for circular feed loop) 1:66^0.5 =1:8.1. The feed loop would
be about 12% of the diameter of the main loop or about 0.3m.

...
> Reggie covered all of this years ago. Unfortunately, he buried the
> best of his legacy in a drift of bantering making it an extreme chore
> to mine Google for the relevant postings.

Reg did leave us a calculator for this problem (MAGLOOP4) but without
(AFAIK) documentation of the method used. MAGLOOP4 comes up with slightly

different figures to my NEC model, slightly higher loss, slightly lower main loop // Z, slightly larger feed loop.

Owen

3432. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 21:59:21 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <9l9325hpafa61gjpali0ru9ni7lmudcbpg@4ax.com>
Source record: 15156

On Fri, 29 May 2009 22:45:03 -0700, "Sal M. Onella"
<salmonella@food.poisoning.org> wrote:

>It also cites the array at Imperial Beach, which is not
>far. I see it several times a year but it was abandoned years ago and may
>be coming down. I wonder who gets all that nice RF cable.

It was decomissioned in 1999 but it's still there today:
<http://addiejones.com/califimages/elephantcage.jpg>
<http://www.californiacoastline.org/cgi-bin/image.cgi?image=10010&mode=sequential&flags=0>
<http://www.navycthistory.com/images2/IBCDAALamberton.jpg>
<http://www.navycthistory.com/ibbradbury01.html>
<http://jproc.ca/rrp/masset_frd10.jpg>
<http://www.navycthistory.com/Imperial_beach_intro.html>
Do you really want 50 year old coax?

>"Off-topic Sal"

From sunspots to elephant cages. One small step for Art. One giant
leap for most of the newsgroup participants.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3433. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 23:28:24 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <qkf325dfootd5tu9ke5oboud8tg5iir28r@4ax.com>
Source record: 15157

On Sat, 30 May 2009 14:59:21 -0700, Jeff Liebermann <jeffl@cruzio.com>
wrote:

Also, Google Maps photo:
<http://maps.google.com/maps?hl=en&q=%27Elephant+Cage%27+Naval+Communication+Station+San+Diego&ie=UTF8&ll=32.593481,-117.129654&spn=0.002929,0.006866&t=h&z=18>

Google Earth map with locations of 16 elephant cages:
<http://bbs.keyhole.com/ubb/ubbthreads.php?ubb=download&Number=48401&filename=113957-FRD10.kmz>
<http://bbs.keyhole.com/ubb/ubbthreads.php?ubb=download&Number=48402&filename=174116-ProtoWullenweber.kmz>

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3434. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 23:40:38 UTC
From: Dave <noone@nowhere.com>
Message-ID: <WtjUl.1573$Cc1.524@nwrddc01.gnilink.net>
Source record: 15158

"Dave" <noone@nowhere.com> wrote in message
news:ECaUl.1481$Cc1.1381@nwrddc01.gnilink.net...
>
> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
> news:08a982b6-d65b-4f67-a9fd-1703d80f6f0a@t21g2000yqi.googlegroups.com...
>
>>Gauss's law of Statics is the subject law.
>
> Ok, you capitalize that as if it were a specific law... provide a
> reference, other than your own posts, for "Gauss's law of Statics". If
> you can't do that, provide the specific equation you are refering to.

come on art, cite the specific reference for "Gauss's law of Statics".

3435. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 23:52:40 UTC
From: John KD5YI <groups2_dot_jocjo@xoxy.net>
Message-ID: <cFjUl.1837$9L2.971@nwrddc02.gnilink.net>
Source record: 15159

"Owen Duffy" <none@no.where> wrote in message
news:Xns9C1BB03AC2B50nonenowhere@61.9.191.5...
> "John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
> news:Zu3Ul.1440$Cc1.441@nwrddc01.gnilink.net:
>
>>
>> "Owen Duffy" <none@no.where> wrote in message
>> news:Xns9C1B5B4C93387nonenowhere@61.9.191.5...
>>> "John KD5YI" <groups2_dot_jocjo@xoxy.net> wrote in
>>> news:H_YTl.1620$9L2.1015@nwrddc02.gnilink.net:
>>>
>>> ...
>>>> I seem to recall that a small loop has less inductance than a large
>>>> loop. I also seem to recall that the transformation between them is
>>>> a function of their inductances. So, a small loop would transform
>>>> the larger loop's impedance to an even lower impedance. Is this not
>>>> so?
>>>
>>> You can think of it in terms of inductance, but visit what inductance
>>> really means (ie the relationship between inductance, current and
>>> flux).
>>>
>>> I gave you an explanation in terms of area of the two loops. If your
>>> feed loop os 20% of the area of the main loop, it intercepts 20% of
>>> the flux, the voltage induced in the feed loop is 20% (1/5) of the
>>> main loop voltage,
>>
>>
>> I understand this and I agree. It makes perfect sense.
>>
>>
>>> the impedance is transformed by 1/(1/5^2)=25, so a 2 ohm main
>>> loop is transformed to a 50 ohm load at the feed loop feed point.
>>
> That is wrong, isn't it? What was I ever thinking?
>
> The main loop isn't anything like 2 ohms at resonance, it is much much
> higher, and the voltage is quite high for a given power.
>
> The reduction in flux cutting the feed loop means that feed loop voltage
> is reduced proportionately to area, and therefore the impedance (in a
> lossless system) would be decreased by the square of the voltage
> reduction
>

>>
>> This is the part with which I disagree. Can you show me why it is 25
>> rather than 1/25?
>
> It is, but it is not 2 ohms that is reduced, it is something much much
> higher.
>
> Thanks.
>
> Owen

Thanks for clarifying, Owen.

Also, your reply to Richard Clark was particularly helpful to me as I seem to learn better by example. I now see what you are doing and how you arrive at your conclusions. It has all been very enlightening to me.

John

3436. Re: Loop antenna matching question

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-30 23:58:20 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <9rh325tkvsa6q4ldsgp5q90bivlmf46gv7@4ax.com>
Source record: 15160

On Sat, 30 May 2009 21:54:44 GMT, Owen Duffy <none@no.where> wrote:

>Reg did leave us a calculator for this problem (MAGLOOP4)

Hi Owen,

>but without
>(AFAIK) documentation of the method used.

Hence my statement of his work being buried in his banter in this
group. Using MAGLOOP as a keyword might help uncover some of his
narrative documentation.

>MAGLOOP4 comes up with slightly
>different figures to my NEC model, slightly higher loss, slightly lower
>main loop // Z, slightly larger feed loop.

Which by several methods hews closely to a common answer (and by far
better accuracy than most guesses).

73's
Richard Clark, KB7QHC

3437. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 00:24:56 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21ce94$0$92356$8046368a@newsreader.iphouse.net>
Source record: 15161

Art Unwin wrote:
<snip>
A bunch of his usual nonsense, none of which he has proven.

And I repeat -

Hmm, my antennas, and probably everyone else's here, tend to be over 98% efficient.

How much better are yours?

tom
K0TAR

3438. "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 00:28:18 UTC
From: Usual Suspect <reply@thegroup.net>
Message-ID: <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>
Source record: 15162
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain over the UHF TV range:

<http://tinyurl.com/nqpzm2>

I must say at the outset that I am hesitant to buy an antenna based on its form-factor, but I'm forced by the local code to not display bare-element type antennae on the mast.

I do like the panel style for the reason that I can arrange 3 around a common mast, aimed at remote cities, and join the outputs for increased coverage.

Has anyone experience with the SS-1000? Or can recommend a similar style antenna?

Thanks.
--
Al, the usual

3439. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 00:29:42 UTC
From: LAB <no@mail.com>
Message-ID: <4a21cf76$0$6832$5fc30a8@news.tiscali.it>
Source record: 15163

>> I had already made another Slim Jim using 2mm bare copper wire on the sides of a black "electric" plastic tube

>> The velocity factor of the insulated twinlead is muchlower than bare wires. If you don't understand velocity factor, please study up on the subject.

I know what is velocity factor. It is determined by L and C. In the "other" Slim Jim a plastic tube was between the 2mm wires, but performances was similar to the 6mm tube antenna, in which only air is between the tube

--
Gianluca

3440. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 00:30:14 UTC
From: dplatt@radagast.org
Message-ID: <mlv8f6-os7.ln1@radagast.org>
Source record: 15164

>Apparently, the take-off-angle:
>
>http://www.para.org.ph/membersarticles/DU1ANV/Slim%20Jim.htm

I have *serious* doubts about the analysis in that article.

I believe that the author's assumption that splitting the radiator current in half, and running it through two parallel elements, has the effect of increasing the gain and dropping the takeoff angle is incorrect.

The analysis I've read on Cebik's web site of J-poles of various sorts seems to make no mention of this alleged effect. Nor have I seen it discussed in writeups of folded dipoles.

If increasing the gain of a half-wave dipole were as easy as that, it'd be a lot more popular a technique, and much better known.

I believe that a "slim jim" might have a slightly wider bandwidth and/or lower resonant frequency than a single-wire J-pole of the same dimensions, but more gain? Unless somebody's got independent evidence of this (measurements or a good NEC model) I'd take it with a good-sized grain of salt.

--
Dave Platt <dplatt@radagast.org> AE6EO
Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
I do _not_ wish to receive unsolicited commercial email, and I will boycott any company which has the gall to send me such ads!

3441. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 00:52:19 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <%wkUl.30837$Ws1.12426@nlpi064.nbdc.sbc.com>
Source record: 15165

LAB wrote:
> I know what is velocity factor. It is determined by L and C. In the
> "other" Slim Jim a plastic tube was between the 2mm wires, but performances
> was similar to the 6mm tube antenna, in which only air is between the tube

The plastic tube had mostly air between the conductors.
The insulation on 300 ohm twinlead or window line is solid
dielectric around and between the two wires. VF is easy
enough to measure with something like an MFJ-259B.

I measured the VF of 300 ohm window line at 0.8
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3442. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 01:03:36 UTC
From: LAB <no@mail.com>
Message-ID: <4a21d769$0$693$5fc30a8@news.tiscali.it>
Source record: 15166

When I made the antenna I thought the plastic tube could do bad things.
I also read that black tubes have carbon in the plastic, then white ones
should be better...

--
Gianluca

3443. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 01:04:40 UTC
From: LAB <no@mail.com>
Message-ID: <4a21d7a8$0$705$5fc30a8@news.tiscali.it>
Source record: 15167

Now it's very, very late here. I go to sleep. Have a good day!

--
Gianluca

3444. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 01:44:45 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <ac04d03c-2df1-44c6-b291-b2d3a0d723cc@y17g2000yqn.googlegroups.com>
Source record: 15168

On May 30, 7:24 pm, tom <news4...@taring.org> wrote:
> Art Unwin wrote:
>
> <snip>
> A bunch of his usual nonsense, none of which he has proven.
>
> And I repeat -
>
> Hmm, my antennas, and probably everyone else's here, tend to be over 98%
> efficient.
>
> How much better are yours?
>
> tom
> K0TAR

That's a silly question Tom it is the pattern that matters to me.
Anyway it was 100% and the pattern was a ball which to me is what I
wanted i.e. equal pressure on all boundary points which is absolute
equilibrium. The 100% figure is nice but the program worked it out not
I. Any way the scientist was correct on his theory with respect to
"point radiation" unfortunately, like others,,, he passed away
My other desire is to make the radiator as small as possible and I
solved that some time ago as well as a frequency response that makes a
log periodic look ancient.
Now your turn ! You have had enough questions and I have asked for
just one and that is the action and manner of waves, but you can't
seem to answer that one so I will provide another.
Radiation is a result of an accellerated charge is what all the books
say , what is the nature of that charge such as mass and what force
created that acceleration? Now if you are the expert that you say you
are then you will have to answer a question sometime or your perceived
status will come under scrutiny and David can be very difficult at
times with his questions never answers but questions only questions.
Art
Art

3445. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:05:22 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21e5cc$0$18871$8046368a@newsreader.iphouse.net>
Source record: 15169

Art Unwin wrote:
> On May 30, 7:24 pm, tom <news4...@taring.org> wrote:
>>
>> Hmm, my antennas, and probably everyone else's here, tend to be over 98%
>> efficient.
>>
>> How much better are yours?
>>
>> tom
>> K0TAR
>
> That's a silly question Tom it is the pattern that matters to me.
> Anyway it was 100% and the pattern was a ball which to me is what I
<snip>
> Art

So your antenna, including losses, is 100% efficient. I find that a bit
tough to believe. Ok, impossible to believe.

tom
K0TAR

3446. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:10:29 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21e6fe$0$18873$8046368a@newsreader.iphouse.net>
Source record: 15170

Dale Parfitt wrote:
>
> I think Szczepan can take Art in best out of three falls. Neither seems to
> have an interest in real world antennas. Perhaps there is a
> rec.radio.magicalphysics group they could move to?
>
> Dale W4OP
>
>

Well if you took them and added Chris from s.p.fusion, you'd have an
amazing trio. Chris, to be fair, actually builds things and truthfully
reports the results, makes modifications when it again fails, does more
calculations, tries agains, fails again. He just thinks, similar to
Art, that he's the only one that knows the "secret". Well sort of,
you'd have to read his stuff.

tom
K0TAR

3447. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:19:01 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <1f039c24-8c18-4fc4-8fd9-d401414bb54a@o18g2000yqi.googlegroups.com>
Source record: 15171

On May 30, 9:05 pm, tom <news4...@taring.org> wrote:
> Art Unwin wrote:
> > On May 30, 7:24 pm, tom <news4...@taring.org> wrote:
>
> >> Hmm, my antennas, and probably everyone else's here, tend to be over 98%
> >> efficient.
>
> >> How much better are yours?
>
> >> tom
> >> K0TAR
>
> > That's a silly question Tom it is the pattern that matters to me.
> > Anyway it was 100% and the pattern was a ball which to me is what I
> <snip>
> > Art
>
> So your antenna, including losses, is 100% efficient. I find that a bit
> tough to believe. Ok, impossible to believe.
>
> tom
> K0TAR

Well it depends on what the programmer refers to as efficiency. It
could also mean all forces accounted for and when summed equals zero
as reflected by the radiation ball
and as you say it also accounts for losses. I'll wager that is what
all antenna programs refer to as efficiency. Either way it is only 2%
higher than the figure you were boasting about and yet you believe
yours. Selective analysis?
Art

3448. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:20:23 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21e9a2$0$92363$8046368a@newsreader.iphouse.net>
Source record: 15172

Art Unwin wrote:
> antennas. I just can't make them out. Now we have Tom competing for
> the top spot because he has made antennas to work and is anxious to

Me? Compete with people like the Richards, or Roy or the late great
Cebik or any other of the other real pros here? Nonsense. Not even trying.

You are amusing in a kind of Lewis Carroll way. So don't stop. But
don't think the criticism will either, because you are just plain wrong.

tom
K0TAR

3449. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:35:53 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21ecf3$0$18871$8046368a@newsreader.iphouse.net>
Source record: 15173

Sal M. Onella wrote:
>
> Just a guess, but maybe it deals with the Wullenweber [or Wullenwever]
> antenna, described here http://en.wikipedia.org/wiki/Wullenweber and
> elsewhere.
>

Actually, unlike Wullenweber, they have multiple concentric rings of verticals in the array with a complex phasing system. My guess is that this may have been a contributor to the methods eventually used in phased array radars. But also something that was an engineering study, and not necessarily practical.

tom
K0TAR

3450. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:39:56 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <a55269c1-155f-41da-967f-bf4d5b8369a0@j32g2000yqh.googlegroups.com>
Source record: 15174

On May 30, 9:20 pm, tom <news4...@taring.org> wrote:
> Art Unwin wrote:
> > antennas. I just can't make them out. Now we have Tom competing for
> > the top spot because he has made antennas to work and is anxious to
>
> Me? Compete with people like the Richards, or Roy or the late great
> Cebik or any other of the other real pros here? Nonsense. Not even trying.
>
> You are amusing in a kind of Lewis Carroll way. So don't stop. But
> don't think the criticism will either, because you are just plain wrong.
>
> tom
> K0TAR

Then quit judging people

3451. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:50:39 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21f0bb$0$92352$8046368a@newsreader.iphouse.net>
Source record: 15175

Art Unwin wrote:
> On May 30, 9:20 pm, tom <news4...@taring.org> wrote:
>> Art Unwin wrote:
>>> antennas. I just can't make them out. Now we have Tom competing for
>>> the top spot because he has made antennas to work and is anxious to
>> Me? Compete with people like the Richards, or Roy or the late great
>> Cebik or any other of the other real pros here? Nonsense. Not even trying.
>>
>> You are amusing in a kind of Lewis Carroll way. So don't stop. But
>> don't think the criticism will either, because you are just plain wrong.
>>
>> tom
>> K0TAR
>
> Then quit judging people

Engineers get to judge. It's part of our job. It's why eventually we
learn enough make buildings and bridges that don't fall down.

And it's why we don't allow people like you design things that need to work.

That's the way it is. You may not like it, but that's just too bad.

tom
K0TAR

3452. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 02:56:02 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <449afc60-5a51-437a-affa-340146765d61@z9g2000yqi.googlegroups.com>
Source record: 15176

On May 30, 9:20 pm, tom <news4...@taring.org> wrote:
> Art Unwin wrote:
> > antennas. I just can't make them out. Now we have Tom competing for
> > the top spot because he has made antennas to work and is anxious to
>
> Me? Compete with people like the Richards, or Roy or the late great
> Cebik or any other of the other real pros here? Nonsense. Not even trying.
>
> You are amusing in a kind of Lewis Carroll way. So don't stop. But
> don't think the criticism will either, because you are just plain wrong.
>
> tom
> K0TAR

Nobody has proved that

3453. Baluns & tower project

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 03:18:09 UTC
From: MTV <volztexas@comcast.net>
Message-ID: <YFmUl.66684$4p1.167@en-nntp-03.dc1.easynews.com>
Source record: 15177

Any advantage to having a B&W balun on a yagi vs "6 coils of feedline?"

Reason I'm asking is that the B&W 5K I happen to have specifies "SWR less than 3:1". I know over almost any and every one of the five bands my new beam covers (10, 12, 15, 17 & 20M), it'll be higher than that at many points.

I'm putting up a 7 element full size Mosley Pro 57B I got from W5KDG in Spring, TX a few months ago. What a job!

It's going on a 50' Glen Martin HD aluminum "Hazer" tower. The hazer includes the Yaseu 1000 rotator and 8' mast for antennas, and cranks up from ground level. I also have a Cushcraft (6M, 2M & 440) beam at the top of the mast. (Mast reaching above the tower is about 4'). The Mosley will be 5-6" above the top of the tower to clear when turning. Probably have some interaction with the tower and guys being so close? Three 3/8" stainless steel guys are fastened at the very top of the tower and broken up with insulators. I figure the height will probably be the biggest factor for stronger signals.

I'm now in the process of running five cables: 4 of RG/213 coax, plus one for the rotator, down a "messenger line" (also 3/8" stainless cable) from the hazer and into my shack. The coax lines are for the UHF, VHF and HF beams, plus an Alpha Delta DX-A: 1/4 wave slopers for 160, 80 & 40M. FWIW: 50' of coax X 4 is pretty heavy!

For anyone's info: this is my "retirement project." Been licensed since 1957 while in high school, shortly after Sputnik was launched, but was busy raising a family, and never had the space for antennas like this. Also most neighbors here are horses which never complain. Hi!

Marv
W5MTV

3454. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 03:27:42 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21f96a$0$92352$8046368a@newsreader.iphouse.net>
Source record: 15178

Art Unwin wrote:
> On May 30, 9:20 pm, tom <news4...@taring.org> wrote:
>> Art Unwin wrote:
>>> antennas. I just can't make them out. Now we have Tom competing for
>>> the top spot because he has made antennas to work and is anxious to
>> Me? Compete with people like the Richards, or Roy or the late great
>> Cebik or any other of the other real pros here? Nonsense. Not even trying.
>>
>> You are amusing in a kind of Lewis Carroll way. So don't stop. But
>> don't think the criticism will either, because you are just plain wrong.
>>
>> tom
>> K0TAR
>
> Nobody has proved that

No, you haven't proved anything. That's the way science works. We don't
have to prove you wrong, you have to prove that you are right.

You seem to have missed that part.

Be specific. Give detailed test conditions. Give exact design
specifications of the test antennas. Give detailed results of your test
measurements. Then someone else can confirm your results or not.

Are you afraid your antennas don't really work? You certainly could
prove prior art if they do. You've been claiming they do for long enough.

Quit hiding behind words and give concrete things that can be tested.

S--t or get off the pot.

tom
K0TAR

tom
K0TAR

3455. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 03:46:08 UTC
From: tom <news4792@taring.org>
Message-ID: <4a21fd69$0$18863$8046368a@newsreader.iphouse.net>
Source record: 15179

tom wrote:
> Art Unwin wrote:
>> On May 30, 9:20 pm, tom <news4...@taring.org> wrote:
>>> Art Unwin wrote:
>>>> antennas. I just can't make them out. Now we have Tom competing for
>>>> the top spot because he has made antennas to work and is anxious to
>>> Me? Compete with people like the Richards, or Roy or the late great
>>> Cebik or any other of the other real pros here? Nonsense. Not even
>>> trying.
>>>
>>> You are amusing in a kind of Lewis Carroll way. So don't stop. But
>>> don't think the criticism will either, because you are just plain wrong.
>>>
>>> tom
>>> K0TAR
>>
>> Nobody has proved that
>
> No, you haven't proved anything. That's the way science works. We don't
> have to prove you wrong, you have to prove that you are right.
>
> You seem to have missed that part.
>
> Be specific. Give detailed test conditions. Give exact design
> specifications of the test antennas. Give detailed results of your test
> measurements. Then someone else can confirm your results or not.
>
> Are you afraid your antennas don't really work? You certainly could
> prove prior art if they do. You've been claiming they do for long enough.
>
> Quit hiding behind words and give concrete things that can be tested.
>
> S--t or get off the pot.
>
> tom
> K0TAR

HELLO?

tom
K0TAR

3456. Re: Tube and Twin lead Slim Jim

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 04:39:28 UTC
From: JIMMIE <JIMMIEDEE123@YAHOO.COM>
Message-ID: <45c4e8a8-4618-4787-9df3-3d38e355d416@m19g2000yqk.googlegroups.com>
Source record: 15180

On May 30, 8:30 pm, dpl...@radagast.org (Dave Platt) wrote:
> >Apparently, the take-off-angle:
>
> >http://www.para.org.ph/membersarticles/DU1ANV/Slim%20Jim.htm
>
> I have *serious* doubts about the analysis in that article.
>
> I believe that the author's assumption that splitting the radiator
> current in half, and running it through two parallel elements, has the
> effect of increasing the gain and dropping the takeoff angle is
> incorrect.
>
> The analysis I've read on Cebik's web site of J-poles of various sorts
> seems to make no mention of this alleged effect. Nor have I seen it
> discussed in writeups of folded dipoles.
>
> If increasing the gain of a half-wave dipole were as easy as that,
> it'd be a lot more popular a technique, and much better known.
>
> I believe that a "slim jim" might have a slightly wider bandwidth
> and/or lower resonant frequency than a single-wire J-pole of the same
> dimensions, but more gain? Unless somebody's got independent evidence
> of this (measurements or a good NEC model) I'd take it with a
> good-sized grain of salt.
>
> --
> Dave Platt <dpl...@radagast.org>   AE6EO
> Friends of Jade Warrior home page: http://www.radagast.org/jade-warrior
>   I do _not_ wish to receive unsolicited commercial email, and I will
>   boycott any company which has the gall to send me such ads!

Dave,That was my thoughts on it also. Two wires very close togethether
with in phase and more or less equal currents just adds up to a fatter
wire.

Jimmie

3457. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 05:33:40 UTC
From: stratus46@yahoo.com
Message-ID: <1350ff6e-c913-46c0-958d-6d2e2daab934@q16g2000yqg.googlegroups.com>
Source record: 15181
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On May 30, 5:28 pm, Usual Suspect <re...@thegroup.net> wrote:
> WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db
gain over
> the UHF TV range:
>
> <http://tinyurl.com/nqpzm2>
>
> I must say at the outset that I am hesitant to buy an antenna based
on its
> form-factor, but I'm forced by the local code to not display bare-
element
> type antennae on the mast.
>
> I do like the panel style for the reason that I can arrange 3
around a common
> mast, aimed at remote cities, and join the outputs for increased
coverage.
>
> Has anyone experience with the SS-1000? Or can recommend a similar
style
> antenna?
>
> Thanks.
> --
> Al, the usual

I've had one on the roof since Dec 2004 in 90274 35 miles from Mt
Wilson split 4 ways with no preamps. It's a fine little UHF antenna
and while they say it can do upper VHF, I have serious doubts. I'll
find out for certain in 2 weeks.

G²

3458. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 07:26:37 UTC
From: "Sal M. Onella" <salmonella@food.poisoning.org>
Message-ID: <QiqUl.64902$Rf7.19106@newsfe21.iad>
Source record: 15182
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

"Usual Suspect" <reply@thegroup.net> wrote in message
news:0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net...

< snip >

> I do like the panel style for the reason that I can arrange 3 around a
common
> mast, aimed at remote cities, and join the outputs for increased coverage.

You may encounter some undesired affects from joining antennas. If it
works, fine, but if it doesn't, consider switching among the three at the TV
set(s).

The problem is that the prime signal will be "contaminated" by signal pickup
from the other antenna(s). The degree of contamination may or not affect
reception.

Good luck.

3459. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 09:06:07 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvt83b$7r6$1@node1.news.atman.pl>
Source record: 15183

"Dave" <noone@nowhere.com> wrote
news:%ugUl.1766$9L2.644@nwrddc02.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gvreho$u4$1@node1.news.atman.pl...
>> So Art is looking for the next theory. It is a good way to know the
>> results of experiments. Maxwell did not see the antenas. You all do. Tell
>> than us which part radiate the radio waves.
>
> art is just babbling.
>
> which part radiates?? the whole thing radiates of course.

Earilier you wrote: "according to Maxwell's equations as
supported by detailed observations and calculations over the last 100 years
or more, accelerating charges create radiation. "

In the Hertz apparatus the charges (electrons) have at the centre the max
velocity and the acceleration equal zero.
At ends the situation is opposite. So your answer should be: "the ends
radiate of course".

It is very funny that engineers use electrons and do not know that in the
"Maxwell's equations" no electrons, There is incompressible massless fluid.
You here do not use the "Maxwell's equations". The teachers use them to
teach math.
Engineers use the empirical equations following the rule "accelerating
charges create radiation".
S*

3460. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 09:41:33 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvta5o$86c$1@node1.news.atman.pl>
Source record: 15184

"Richard Clark" <kb7qhc@comcast.net> wrote
news:p7r2255mff1dam7u8ock1jdsk97mqv7klv@4ax.com...
> On Sat, 30 May 2009 18:43:45 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>> "Dave" <noone@nowhere.com>wrote
>>news:6V7Ul.1453$Cc1.968@nwrddc01.gnilink.net...
>>> both, and neither,
>>which part radiate the radio waves.
>
> I can see a struggle developing here between you and Art as to who has
> the claim to wear the cap and bells.

Dale wrote " Neither seems to have an interest in real world antennas. "

I have "an interest in real world antennas. " But only in the fundamental
evidences of wave propagation.
I am not preparing the new theory. The Your engineering theory suits me.
That from physics textbooks not.
In physics is the hydraulic analogy. It is usefull for DC. For high
frequences not. But Maxwell PROPOSED such model for HF.
After his death the electrons vere discovered. So Maxwell did not create
equations for electrons. Engineers use the empirical ones.
S*

3461. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 10:48:43 UTC
From: Dave <noone@nowhere.com>
Message-ID: <fgtUl.1886$9L2.1231@nwrddc02.gnilink.net>
Source record: 15185

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gvt83b$7r6$1@node1.news.atman.pl...
> In the Hertz apparatus the charges (electrons) have at the centre the max
> velocity and the acceleration equal zero.
> At ends the situation is opposite. So your answer should be: "the ends
> radiate of course".

of course you are wrong. there is a smooth transition between the center
and the ends, that whole length radiates. you can't just look at the
boundry conditions, you have to consider the whole length.

>
> It is very funny that engineers use electrons and do not know that in the
> "Maxwell's equations" no electrons, There is incompressible massless
> fluid.
> You here do not use the "Maxwell's equations". The teachers use them to
> teach math.
> Engineers use the empirical equations following the rule "accelerating
> charges create radiation".

Gauss's law is about charged particles, the one art so much likes to
distort.. and don't forget that the 'i' term is also about charged
particles moving... if they can move they are not imcompressible, and since
the force on them can be measured and accelerations are not infinite they
are not massless.

3462. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 10:50:56 UTC
From: Dave <noone@nowhere.com>
Message-ID: <kitUl.1887$9L2.465@nwrddc02.gnilink.net>
Source record: 15186

"Dave" <noone@nowhere.com> wrote in message
news:WtjUl.1573$Cc1.524@nwrddc01.gnilink.net...
>
> "Dave" <noone@nowhere.com> wrote in message
> news:ECaUl.1481$Cc1.1381@nwrddc01.gnilink.net...
>>
>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>> news:08a982b6-d65b-4f67-a9fd-1703d80f6f0a@t21g2000yqi.googlegroups.com...
>>
>>>Gauss's law of Statics is the subject law.
>>
>> Ok, you capitalize that as if it were a specific law... provide a
>> reference, other than your own posts, for "Gauss's law of Statics". If
>> you can't do that, provide the specific equation you are refering to.
>
> come on art, cite the specific reference for "Gauss's law of Statics".

can't answer a specific simple question art?? you much prefer to handwave
and berate others, i ask a simple direct question that is at the core of all
your ranting and you can't even answer it. without that answer the rest of
your posts are just empty shells. give us this magical "Gauss's law of
Statics" that you base everything on!

3463. Re: Baluns & tower project

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 10:56:32 UTC
From: Dave <noone@nowhere.com>
Message-ID: <AntUl.1888$9L2.716@nwrddc02.gnilink.net>
Source record: 15187

"MTV" <volztexas@comcast.net> wrote in message
news:YFmUl.66684$4p1.167@en-nntp-03.dc1.easynews.com...
> Any advantage to having a B&W balun on a yagi vs "6 coils of feedline?"

coiled feedline chokes are not as consistent over a wide frequency range as
ferrite chokes. i don't know what is in the b&w balun, do you??

>
> Reason I'm asking is that the B&W 5K I happen to have specifies "SWR less
> than 3:1". I know over almost any and every one of the five bands my new
> beam covers (10, 12, 15, 17 & 20M), it'll be higher than that at many
> points.

i would expect a pro 57b to be well less than 3:1 across those bands..

3464. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 14:25:00 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <ZqwUl.17910$jZ1.17633@flpi144.ffdc.sbc.com>
Source record: 15188

Szczepan Białż˝ek wrote:
> It is very funny that engineers use electrons and do not know that in
> the "Maxwell's equations" no electrons, There is incompressible massless
> fluid.

i.e. not quantized - which, strangely enough, leads to
Maxwell's equations predicting results that are impossible
to achieve in reality. Planck's constant is indivisible.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3465. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 14:30:13 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <SvwUl.12085$im1.5830@nlpi061.nbdc.sbc.com>
Source record: 15189

Dave wrote:
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gvt83b$7r6$1@node1.news.atman.pl...
>> In the Hertz apparatus the charges (electrons) have at the centre the
>> max velocity and the acceleration equal zero.
>> At ends the situation is opposite. So your answer should be: "the ends
>> radiate of course".
>
> of course you are wrong. there is a smooth transition between the
> center and the ends, that whole length radiates. you can't just look at
> the boundry conditions, you have to consider the whole length.

Doesn't NEC use the method of moments (MoM) which deals
with total current and isn't total current maximum at the
feedpoint (middle) of a 1/2WL dipole where the maximum
acceleration of electrons is taking place?
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3466. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 14:31:36 UTC
From: Usual Suspect <reply@thegroup.net>
Message-ID: <0001HW.C647E2D803F904A1B01AD9AF@news.sf.sbcglobal.net>
Source record: 15190
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

> I've had one on the roof since Dec 2004 in 90274 35 miles from Mt
> Wilson split 4 ways with no preamps. It's a fine little UHF antenna
> and while they say it can do upper VHF, I have serious doubts. I'll
> find out for certain in 2 weeks.
> Gï¿œ

Thanks, G, for answering the question *asked*. I appreciate it. :-)

The issue re. rights may be interesting to some, but was not asked. (Man, the signal-to-noise ration on USENET is *so* low...)

If you think of it, please post a follow-up in 2 weeks.

Thanks.
--
Al, the usual

3467. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 14:32:04 UTC
From: Rich Griffiths <richgrif@one.net>
Message-ID: <IrKdneCiEaF5Cb_XnZ2dnUVZ_oednZ2d@posted.nuvoxcommunications>
Source record: 15191
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On Sat, 30 May 2009 21:32:58 -0400, Elmo P. Shagnasty wrote:

> In article <0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net>,
> Usual Suspect <reply@thegroup.net> wrote:
>
>> I must say at the outset that I am hesitant to buy an antenna based on
>> its form-factor, but I'm forced by the local code to not display
>> bare-element type antennae on the mast.
>
> I don't believe the local code has any say in the matter.
>
> But if you want to give up your rights...

I believe what Elmo says is correct.

Check out: http://www.fcc.gov/mb/facts/otard.html

which says, in part:

The rule (47 C.F.R. Section 1.4000) has been in effect since October
1996, and it prohibits restrictions that impair the installation,
maintenance or use of antennas used to receive video programming. The
rule applies to video antennas including direct-to-home satellite dishes
that are less than one meter (39.37") in diameter (or of any size in
Alaska), TV antennas, and wireless cable antennas. The rule prohibits
most restrictions that: (1) unreasonably delay or prevent installation,
maintenance or use; (2) unreasonably increase the cost of installation,
maintenance or use; or (3) preclude reception of an acceptable quality
signal.

In this ruling, the FCC pre-empted not only state and local government
regulations but HOA CCR's and landlords' restrictions on renters.

This came about because the broadcasters have a strong lobby, and they
didn't want widespread limitations on receiving their over-the-air or
satellite transmissions.

3468. Re: Baluns & tower project

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 14:34:21 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <KzwUl.17911$jZ1.7879@flpi144.ffdc.sbc.com>
Source record: 15192

Dave wrote:
>> Reason I'm asking is that the B&W 5K I happen to have specifies "SWR
>> less than 3:1". I know over almost any and every one of the five bands
>> my new beam covers (10, 12, 15, 17 & 20M), it'll be higher than that
>> at many points.
>
> i would expect a pro 57b to be well less than 3:1 across those bands..

I would expect the 3:1 SWR limit is at the rated power.
Reduce the power level and the balun will survive an
SWR higher than 3:1. If it is rated 3:1 at 5 kW, hams
shouldn't have a problem with a slightly higher SWR.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3469. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 15:12:09 UTC
From: Usual Suspect <reply@thegroup.net>
Message-ID: <0001HW.C647EC5903FB3EF5B01AD9AF@news.sf.sbcglobal.net>
Source record: 15193
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

> Your question was framed around an assertion that is not true.
>
> As such, your question is moot. You, however, want an answer to a moot
> question? And when your false assertion is explained to you as being
> false, complete with details, you consider that "noise"?
>
> "How many baseballs can fit inside the soul of a poet?"

I asked a question. I didn't ask Is my assertion correct? Assume it is
(regardless FCC mandates).

You (and others) decided to answer an unasked question.

But let's not drag this on. I'd like to hear from anyone who has used this
antenna or other like it.

Thanks.
--
Al, the usual

3470. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 15:31:09 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <888525537399s88kc8nscu8jgoqhb3gick@4ax.com>
Source record: 15194

On Sun, 31 May 2009 11:41:33 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>In physics is the hydraulic analogy.
>... Maxwell PROPOSED such model for HF.

Was Maxwell working SSB on the wrong part of the 40M band? He
probably had the greenest lawn on the block.

I'm sorry, fellows, but this seems to be at least one fall out of
those speculated three, and with no prospects of getting up. Reminds
me of an old commercial for those emergency necklaces.....

73's
Richard Clark, KB7QHC

3471. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 16:04:22 UTC
From: raypsi <RBorowiak@gmail.com>
Message-ID: <eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com>
Source record: 15195
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On May 30, 8:28 pm, Usual Suspect <re...@thegroup.net> wrote:
> WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain over
> the UHF TV range:
>
> <http://tinyurl.com/nqpzm2>
>
> I must say at the outset that I am hesitant to buy an antenna based on its
> form-factor, but I'm forced by the local code to not display bare-element
> type antennae on the mast.
>
> I do like the panel style for the reason that I can arrange 3 around a common
> mast, aimed at remote cities, and join the outputs for increased coverage.
>
> Has anyone experience with the SS-1000? Or can recommend a similar style
> antenna?
>
> Thanks.
> --
> Al, the usual

Hey OM
This si just a rehash of another post awhile back in this here forum.
But DTV will never go away so:

I seen one on youtube, there are a tonne of them, but this, to the
best of my recollection, one used:

1pc 1x2 2ft long board
5 steel wire coat hangers
dry wall screws
and a 75 ohm to 300 ohm balun

to make a 4 bay bowtie antenna

Ideally that's 6 db over, just a single bowtie.

And an 8 bay bowtie would be 9db.

I the real world it would be slightly less

Capture area of stacked antennas is greater, so less UHF fading. Like
when the wind blows trees branches around and when cars and trucks go
by.

But nothing like watching a pixelated picture. Unless you got a good
memory in that set box.

73 OM
de n8zu

3472. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 17:06:45 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <1rc525huu0prd8mq1hoc3cmqd7a6gug79b@4ax.com>
Source record: 15196
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On Sat, 30 May 2009 17:28:18 -0700, Usual Suspect <reply@thegroup.net>
wrote:

>WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain over
>the UHF TV range:
><http://tinyurl.com/nqpzm2>

4dB isn't very much gain. Compare this with some other available
antennas:
<http://www.hdtvprimer.com/ANTENNAS/comparing.html>
Unfortunately, the SS-1000 and SS-1000 are not listed.

Depending on the distance between your apartment and the antenna
location, the +4dB antenna gain may not be sufficient to compensate
for the coax loss. Are you in a weak signal or strong signal area? Is
an antenna amplifier justified? If so, you might need 3 amplifiers
for your 3 different directions.

Also, a 4dB gain antenna will not have a very directional antenna
pattern or be particularly directional. My guess(tm) is perhaps 120
degrees wide. There probably won't be much difference in signal
strength if your 3 directions are within the beam width.

>I must say at the outset that I am hesitant to buy an antenna based on its
>form-factor, but I'm forced by the local code to not display bare-element
>type antennae on the mast.

As others have mentioned, this is mostly incorrect. The problem is in
the interpretation of the word "unreasonable", which might be
interpreted in a variety of ways. Without details on your situation,
I can't comment on this.

>I do like the panel style for the reason that I can arrange 3 around a common
>mast, aimed at remote cities, and join the outputs for increased coverage.

Mast? Welcome to "unreasonable". The FCC 47.1.4000 clause that
limits antenna installation has nothing to say about the supporting
structure. While the HOA may not be able to prevent you from
installing an antenna, they most certainly will have something to say
about the design and construction of the supporting structure. They
may also demand that it be installed by a licensed and insured
installer to protect themselves against subsequent litigation. I know
you don't want to hear about all this, but methinks you should at
least be warned before blundering onward.

>Has anyone experience with the SS-1000? Or can recommend a similar style
>antenna?

No recommendations. Antennas are sized and designed to solve specific
problems. The design required in a strong signal area is quite
different from one in a weak signal area, in an urban canyon, for an
indoor installation, or if it is intended to be disguised or
minimalized. It's also important to know the lowest VHF frequency or
channel that the antenna is expected to operate as this has a huge
effect on the physical size of the antenna. Without a clue as to your
situation, it's impossible to offer an endorsement or alternative. If
you find it inconvenient to disclose such details, I suggest you use:
<http://www.antennaweb.org>
to optimize your selection and proposed installation.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3473. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 17:35:03 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <mqe525lg2q52l33ecmvkuj1u2h6sjfaifn@4ax.com>
Source record: 15197
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On Sat, 30 May 2009 17:28:18 -0700, Usual Suspect <reply@thegroup.net>
wrote:

>but I'm forced by the local code to not display bare-element
>type antennae on the mast.

Seeing that you are forced into this, you will suffer by the same
degree. In comparisons to others in the field, it is good by
technical standards - for UHF (low VHF is just hopes and dreams). In
comparisons to others in the field, it is mediocre by cost standards.

So you suffer in cost and coverage (if you want VHF); and form factor
is always going to reign.

This should come as no surprise, certainly.

>Or can recommend a similar style
>antenna?

To suffer equally? As you really lead with your chin ("local code"
and hewing to not arguing that line) and don't offer any technical
specifics (where you live, what stations, what directions, what
distances, what bands, what frequencies, what height mast - in short
nothing) you might fill a 16x16x4 inch box with low denomination
bills, attach a cord and see how that works. If it doesn't, then send
the cash filled box to Winegard and ask that they fill the box with an
antenna in return for what they find inside. It may work equally
well.

Sorry for the lengthy answer that sums up to "maybe," short questions
often require even more elaboration to upgrade to "perhaps."

73's
Richard Clark, KB7QHC

3474. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 18:00:50 UTC
From: Jerry <jerrymartes@verizon.net>
Message-ID: <mBzUl.1721$Cc1.1357@nwrddc01.gnilink.net>
Source record: 15198
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

"Usual Suspect" <reply@thegroup.net> wrote in message
news:0001HW.C6471D3203CAB1EBB01AD9AF@news.sf.sbcglobal.net...
> WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db gain
> over
> the UHF TV range:
>
> <http://tinyurl.com/nqpzm2>
>
> I must say at the outset that I am hesitant to buy an antenna based on its
> form-factor, but I'm forced by the local code to not display bare-element
> type antennae on the mast.
>
> I do like the panel style for the reason that I can arrange 3 around a
> common
> mast, aimed at remote cities, and join the outputs for increased coverage.
>
> Has anyone experience with the SS-1000? Or can recommend a similar style
> antenna?
>
> Thanks.
> --
> Al, the usual

Hi Al

The gain of an antenna is related to its radiation pattern shape.
When the signal ois divided between several antennas, the "gain" of the
system is lowered.

For instance, when the "gain" of the antenna is the result of its
directuivity being restricted to 180 degrees azimuth, and the second
(identical) antenna is mounted to cover the other 180 degrees, the "gain of
the both" is 3 dB. lower than the gain of either antenna alone.

If the "remote cities" produce signals that are weak enough that you are
required to have antenna gain to receive them, you may need a switch that
disconnects all but one antenna for channels from that city.

Jerry KD6JDJ

3475. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 18:16:42 UTC
From: stratus46@yahoo.com
Message-ID: <3607e29e-3401-4d4b-a053-6d9af8bdf100@e20g2000vbc.googlegroups.com>
Source record: 15199
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On May 31, 10:06 am, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sat, 30 May 2009 17:28:18 -0700, Usual Suspect
<re...@thegroup.net>
> wrote:
>
> >WInegard makes an antenna-in-a-box, the SS-1000 which lists ~4 db
gain over
> >the UHF TV range:
> ><http://tinyurl.com/nqpzm2>
>
> 4dB isn't very much gain. Compare this with some other available
> antennas:
> <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> Unfortunately, the SS-1000 and SS-1000 are not listed.

Sure it is but it's called 'Square Shooter'

> Depending on the distance between your apartment and the antenna
> location, the +4dB antenna gain may not be sufficient to compensate
> for the coax loss. Are you in a weak signal or strong signal area?
Is
> an antenna amplifier justified? If so, you might need 3
amplifiers
> for your 3 different directions.

As I said, I use it 35 miles out from Mt Wilson (Los Angeles) and have
it split 4 ways - no preamps. I do have Line Of Sight (just barely)

> Also, a 4dB gain antenna will not have a very directional antenna
> pattern or be particularly directional. My guess(tm) is perhaps
120
> degrees wide. There probably won't be much difference in signal
> strength if your 3 directions are within the beam width.

You're right, it isn't very directional but it has a reasonable front-
to-back ratio.

> >I must say at the outset that I am hesitant to buy an antenna
based on its
> >form-factor, but I'm forced by the local code to not display bare-
element
> >type antennae on the mast.

I don't like getting into 'contests' with the HOAs if I can avoid it.
After all, we have to live with them.

> As others have mentioned, this is mostly incorrect. The problem is
in
> the interpretation of the word "unreasonable", which might be
> interpreted in a variety of ways. Without details on your
situation,
> I can't comment on this.
>
> >I do like the panel style for the reason that I can arrange 3
around a common
> >mast, aimed at remote cities, and join the outputs for increased
coverage.
>
> Mast? Welcome to "unreasonable". The FCC 47.1.4000 clause that
> limits antenna installation has nothing to say about the supporting
> structure. While the HOA may not be able to prevent you from
> installing an antenna, they most certainly will have something to
say
> about the design and construction of the supporting structure.
 They
> may also demand that it be installed by a licensed and insured
> installer to protect themselves against subsequent litigation. I
know
> you don't want to hear about all this, but methinks you should at
> least be warned before blundering onward.
>
> >Has anyone experience with the SS-1000? Or can recommend a similar
style
> >antenna?
>
> No recommendations. Antennas are sized and designed to solve
specific
> problems. The design required in a strong signal area is quite
> different from one in a weak signal area, in an urban canyon, for
an
> indoor installation, or if it is intended to be disguised or
> minimalized. It's also important to know the lowest VHF frequency
or
> channel that the antenna is expected to operate as this has a huge
> effect on the physical size of the antenna. Without a clue as to
your
> situation, it's impossible to offer an endorsement or alternative.
 If
> you find it inconvenient to disclose such details, I suggest you
use:
> <http://www.antennaweb.org>
> to optimize your selection and proposed installation.
>
> --
> Jeff Liebermann   je...@cruzio.com

All I can say is I've been using Winegard antennas since 1974 and have found them to be well built good performers and have never been disappointed with their products. Also, any friends who took my advice were never disappointed with either the antannas OR me.

G²

3476. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 18:52:28 UTC
From: Jeff Liebermann <jeffl@cruzio.com>
Message-ID: <9dj525ls0f32k96aubotstuvjp6jmqt2vs@4ax.com>
Source record: 15200
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On Sun, 31 May 2009 11:16:42 -0700 (PDT), stratus46@yahoo.com wrote:

>On May 31, 10:06ï¿½am, Jeff Liebermann <je...@cruzio.com> wrote:

> > <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> > Unfortunately, the SS-1000 and SS-1000 are not listed.
>
>Sure it is but it's called 'Square Shooter'

Sorry, typo error. I mean't the SS-1000 and SS-2000 (amplified). It
does list the "Sharp Shooter" which is a different indoor antenna.

What's inside the SS-1000 and some really weird "gain" tests:
<http://www.hdtvexpert.com/pages/squareshot.htm>

>As I said, I use it 35 miles out from Mt Wilson (Los Angeles) and have
>it split 4 ways - no preamps. I do have Line Of Sight (just barely)

Yes, but the original poster may not have such an ideal location.

Also, bad guess on the beamwidth. It's 54 (channel 69) to 95 (channel
7) degrees. Sorry.

>You're right, it isn't very directional but it has a reasonable front-
>to-back ratio.

It varies with frequency. It's only 2.6dB at channel 10. See specs
below.

>All I can say is I've been using Winegard antennas since 1974 and have
>found them to be well built good performers and have never been
>disappointed with their products. Also, any friends who took my advice
>were never disappointed with either the antannas OR me.

I try to avoid shopping by brand. Even the best manufacturers have
their lemons and losers. Right now, the advertising trend is to
replace your existing antenna with an HD or Digital TV antenna,
whatever that means. Also, to make it look like a DBS dish, which is
generally accepted by most HOA.

Specs and details:
<http://www.winegarddirect.com/pdf/spec_ss1000-ss2000.pdf>
<http://www.winegarddirect.com/squareshooter-ss1000-ss2000/winegard-square-shooter.htm>
<http://www.winegarddirect.com/viewitem~p~ss-1000~d~Winegard-SS1000-SquareShooter-UHF-Only
-DigitalAnalogHDTV-Antenna-System-(SS1000)~post~.htm>
I don't see much to complain about in the design and construction of
this antenna. However, whether it's suitable for the OP's location

and application is unknown.

--
Jeff Liebermann jeffl@cruzio.com
150 Felker St #D http://www.LearnByDestroying.com
Santa Cruz CA 95060 http://802.11junk.com
Skype: JeffLiebermann AE6KS 831-336-2558

3477. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 19:08:22 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvubcadkc1@node1.news.atman.pl>
Source record: 15101

"Dave" <noone@nowhere.com> wrote
news:fgtUl.1886$9L2.1231@nwrddc02.gnilink.net...
>
> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
> news:gvt83b$7r6$1@node1.news.atman.pl...
>> In the Hertz apparatus the charges (electrons) have at the centre the max
>> velocity and the acceleration equal zero.
>> At ends the situation is opposite. So your answer should be: "the ends
>> radiate of course".
>
> of course you are wrong. there is a smooth transition between the center
> and the ends, that whole length radiates. you can't just look at the
> boundry conditions, you have to consider the whole length.

Yes. But the radiation is not uniform. What radiate stronger: the centre or
the ends?
>
>>
>> It is very funny that engineers use electrons and do not know that in the
>> "Maxwell's equations" no electrons, There is incompressible massless
>> fluid.
>> You here do not use the "Maxwell's equations". The teachers use them to
>> teach math.
>> Engineers use the empirical equations following the rule "accelerating
>> charges create radiation".
>
> Gauss's law is about charged particles, the one art so much likes to
> distort.. and don't forget that the 'i' term is also about charged
> particles moving... if they can move they are not imcompressible, and
> since the force on them can be measured and accelerations are not infinite
> they are not massless.

We all know now that the electrons are "not imcompressible, and since
> the force on them can be measured and accelerations are not infinite they
> are not massless." But do you know what the electricity was like in the
> Maxwell theory from 1865?
S*

3478. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 19:13:06 UTC
From: Szczepan Białek <sz.bialek@wp.pl>
Message-ID: <gvubl8dlf1@node1.news.atman.pl>
Source record: 15102

"Richard Clark" <kb7qhc@comcast.net> wrote
news:888525537399s88kc8nscu8jgoqhb3gick@4ax.com...
> On Sun, 31 May 2009 11:41:33 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
> wrote:
>
>>In physics is the hydraulic analogy.
>>... Maxwell PROPOSED such model for HF.
>
> Was Maxwell working SSB on the wrong part of the 40M band? He
> probably had the greenest lawn on the block.
>
> I'm sorry, fellows, but this seems to be at least one fall out of
> those speculated three, and with no prospects of getting up. Reminds
> me of an old commercial for those emergency necklaces.....

Interesting English lesson.
S*

3479. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 19:49:33 UTC
From: Richard Clark <kb7qhc@comcast.net>
Message-ID: <c3n52592kc1mio80jjt6opq4tl317d77ch@4ax.com>
Source record: 15103

On Sun, 31 May 2009 21:08:22 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
wrote:

>But do you know what the electricity was like in the
> Maxwell theory from 1865?

It employed 20 equations with 20 unknowns. Can you name THREE?

Let's skip that, because you can not, of course.

It was recast as quaternions - I won't ask the impossible from you to
state TWO.

You have yet to manage how long it took for ONE electron to travel
end-to-end on Hertz's first loop.

So answering your questions is like sending Cuisinart to Darfur. Do
you know what electricity is like there? Any year?

73's
Richard Clark, KB7QHC

3480. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 20:54:26 UTC
From: Dave <noone@nowhere.com>
Message-ID: <68CUl.1760$Cc1.1628@nwrddc01.gnilink.net>
Source record: 15104

"Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
news:gvubcadkc1@node1.news.atman.pl...
>
> "Dave" <noone@nowhere.com> wrote
> news:fgtUl.1886$9L2.1231@nwrddc02.gnilink.net...
>>
>> "Szczepan Bialek" <sz.bialek@wp.pl> wrote in message
>> news:gvt83b$7r6$1@node1.news.atman.pl...
>>> In the Hertz apparatus the charges (electrons) have at the centre the
>>> max velocity and the acceleration equal zero.
>>> At ends the situation is opposite. So your answer should be: "the ends
>>> radiate of course".
>>
>> of course you are wrong. there is a smooth transition between the center
>> and the ends, that whole length radiates. you can't just look at the
>> boundry conditions, you have to consider the whole length.
>
> Yes. But the radiation is not uniform. What radiate stronger: the centre
> or the ends?

both. when the current is high in the center it is creating a stronger
magnetic field, and when that current reaches the end it creates the highest
voltage so makes more electric field... both are part of the
electro-magnetic wave.

>>
>>>
>>> It is very funny that engineers use electrons and do not know that in
>>> the "Maxwell's equations" no electrons, There is incompressible massless
>>> fluid.
>>> You here do not use the "Maxwell's equations". The teachers use them to
>>> teach math.
>>> Engineers use the empirical equations following the rule "accelerating
>>> charges create radiation".
>>
>> Gauss's law is about charged particles, the one art so much likes to
>> distort.. and don't forget that the 'i' term is also about charged
>> particles moving... if they can move they are not imcompressible, and
>> since the force on them can be measured and accelerations are not
>> infinite they are not massless.
>
> We all know now that the electrons are "not imcompressible, and since
>> the force on them can be measured and accelerations are not infinite they
>> are not massless."
>But do you know what the electricity was like in the Maxwell theory from

>1865?

sure, its the same as today. since his equations still work the electricity hasn't changed.

3481. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 20:56:39 UTC
From: Dave <noone@nowhere.com>
Message-ID: <baCUl.1762$Cc1.1466@nwrddc01.gnilink.net>
Source record: 15105

```
"Dave" <noone@nowhere.com> wrote in message
news:kitUl.1887$9L2.465@nwrddc02.gnilink.net...
>
> "Dave" <noone@nowhere.com> wrote in message
> news:WtjUl.1573$Cc1.524@nwrddc01.gnilink.net...
>>
>> "Dave" <noone@nowhere.com> wrote in message
>> news:ECaUl.1481$Cc1.1381@nwrddc01.gnilink.net...
>>>
>>> "Art Unwin" <ArthurUnwin@gmail.com> wrote in message
>>> news:08a982b6-d65b-4f67-a9fd-1703d80f6f0a@t21g2000yqi.googlegroups.com...
>>>
>>>>Gauss's law of Statics is the subject law.
>>>
>>> Ok, you capitalize that as if it were a specific law... provide a
>>> reference, other than your own posts, for "Gauss's law of Statics". If
>>> you can't do that, provide the specific equation you are refering to.
>>
>> come on art, cite the specific reference for "Gauss's law of Statics".
>
> can't answer a specific simple question art?? you much prefer to handwave
> and berate others, i ask a simple direct question that is at the core of
> all your ranting and you can't even answer it. without that answer the
> rest of your posts are just empty shells. give us this magical "Gauss's
> law of Statics" that you base everything on!
>

come on art, one specific simple question...cite the specific reference for
"Gauss's law of Statics". or are you going to pull another vanishing act
and come back later just to start fresh with more bafflegab?
```

3482. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 21:04:50 UTC
From: Usual Suspect <reply@thegroup.net>
Message-ID: <0001HW.C6483F02040E9E7FB01AD9AF@news.sf.sbcglobal.net>
Source record: 15106
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

> Yes, but the original poster may not have such an ideal location.

TV Fool azimuth plot:

<http://i44.tinypic.com/2a4wghx.jpg>

Was considering 3 antennae with wide reception angles pointed generally at
45, 140, 310 deg. Only 3 are LOS (15, 18, 33)

Pretty flat terrain, no tall structures nearby . Top of the mast: 14 ft. agl.

Thanks.
--
Al, the usual

3483. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 22:18:48 UTC
From: stratus46@yahoo.com
Message-ID: <0078dd88-c6d0-48f7-bf48-508fd6797d13@b9g2000yqm.googlegroups.com>
Source record: 15107
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

On May 31, 11:52 am, Jeff Liebermann <je...@cruzio.com> wrote:
> On Sun, 31 May 2009 11:16:42 -0700 (PDT), stratu...@yahoo.com wrote:
> >On May 31, 10:06 am, Jeff Liebermann <je...@cruzio.com> wrote:
> > > <http://www.hdtvprimer.com/ANTENNAS/comparing.html>
> > > Unfortunately, the SS-1000 and SS-1000 are not listed.
>
> >Sure it is but it's called 'Square Shooter'
>
> Sorry, typo error. I mean't the SS-1000 and SS-2000 (amplified). It
> does list the "Sharp Shooter" which is a different indoor antenna.
>
> What's inside the SS-1000 and some really weird "gain" tests:
> <http://www.hdtvexpert.com/pages/squareshot.htm>

It's antenna 'M', the Square Shooter

> >As I said, I use it 35 miles out from Mt Wilson (Los Angeles) and have
> >it split 4 ways - no preamps. I do have Line Of Sight (just barely)
>
> Yes, but the original poster may not have such an ideal location.

And that is why I point out my line of sight condidtion at 35 miles

> Also, bad guess on the beamwidth. It's 54 (channel 69) to 95 (channel
> 7) degrees. Sorry.
>
> >You're right, it isn't very directional but it has a reasonable front-
> >to-back ratio.
>
> It varies with frequency. It's only 2.6dB at channel 10. See specs
> below.

I don't expect it to be usable where I'm at for channels 7,9,11 and
13. I'll try it and if / when it fails, I'll tie in the VHF of the
Winegard in the garage eaves. Hopefully its VHF performance will make
the grade under the roof 'chaff'. If the wife would put up with the
all channel garage antenna on the roof, it would certainly be fine BUT
she doesn't want to look at it, hence the SS-1000 at least for the
UHF.

> >All I can say is I've been using Winegard antennas since 1974 and have
> >found them to be well built good performers and have never been
> >disappointed with their products. Also, any friends who took my advice
> >were never disappointed with either the antannas OR me.
>

> I try to avoid shopping by brand. Even the best manufacturers have
> their lemons and losers. Right now, the advertising trend is to
> replace your existing antenna with an HD or Digital TV antenna,
> whatever that means. Also, to make it look like a DBS dish, which is
> generally accepted by most HOA.
>
> Specs and details:
> <http://www.winegarddirect.com/pdf/spec_ss1000-ss2000.pdf>
> <http://www.winegarddirect.com/squareshooter-ss1000-ss2000/winegard-sq...>
> <http://www.winegarddirect.com/viewitem~p~ss-1000~d~Winegard-SS1000-Sq...>
> I don't see much to complain about in the design and construction of
> this antenna. However, whether it's suitable for the OP's location
> and application is unknown.
>
> --
> Jeff Liebermann   je...@cruzio.com

You won't find any new Sony at our house but you will find 4 Gigabyte motherboards with AMD processors, 3 old Technics receivers, 8 Advent speakers, Canon cameras and a lot of who knows what. When one of the brands falls short I'll re-evaluate but for now I'm happy.

G²

3484. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 22:19:43 UTC
From: "Bruce W. Ellis" <ellis@means.net>
Message-ID: <ua06255nag0ckal2q9r0q43shb1m221jqj@4ax.com>
Source record: 15108

On Sun, 31 May 2009 12:49:33 -0700, Richard Clark <kb7qhc@comcast.net>
wrote:

>On Sun, 31 May 2009 21:08:22 +0200, Szczepan Bia?ek <sz.bialek@wp.pl>
>wrote:
>
>>But do you know what the electricity was like in the
>> Maxwell theory from 1865?
>
>It employed 20 equations with 20 unknowns. Can you name THREE?
>
>Let's skip that, because you can not, of course.
>
>It was recast as quaternions - I won't ask the impossible from you to
>state TWO.
>
>You have yet to manage how long it took for ONE electron to travel
>end-to-end on Hertz's first loop.
>
>So answering your questions is like sending Cuisinart to Darfur. Do
>you know what electricity is like there? Any year?
>
>73's
>Richard Clark, KB7QHC

Another way to put this:

The actual mean drift velocity for electrons at any reasonable curent
is quite low because there are so many of them in the conductor.
However, the electric wave driving them propagates at he speed of
light appropriate for the medium.

W0BF

3485. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 22:28:05 UTC
From: Cecil Moore <nospam@w5dxp.com>
Message-ID: <wnDUl.5006$fD.1860@flpi145.ffdc.sbc.com>
Source record: 15109

Bruce W. Ellis wrote:
> The actual mean drift velocity for electrons at any reasonable curent
> is quite low because there are so many of them in the conductor.
> However, the electric wave driving them propagates at he speed of
> light appropriate for the medium.

The electrons move hardly at all at RF/AC frequencies.
On the average, they tend to oscillate mostly in place.
What travels at the speed of light are the photons
emitted by the oscillating electrons. The electrons
form the equivalent of a "bucket brigade" for the
photonic wave energy.
--
73, Cecil, IEEE, OOTC, http://www.w5dxp.com

3486. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 23:29:27 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <93089906-34c2-4558-a414-6b0a0cd30805@w40g2000yqd.googlegroups.com>
Source record: 15110

On May 31, 5:28 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Bruce W. Ellis wrote:
> > The actual mean drift velocity for electrons at any reasonable curent
> > is quite low because there are so many of them in the conductor.
> > However, the electric wave driving them propagates at he speed of
> > light appropriate for the medium.
>
> The electrons move hardly at all at RF/AC frequencies.
> On the average, they tend to oscillate mostly in place.
> What travels at the speed of light are the photons
> emitted by the oscillating electrons. The electrons
> form the equivalent of a "bucket brigade" for the
> photonic wave energy.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Cecil
Does that mean that a radiator reduces mass with use
because the electrons orbiting around the atom are losing mass?
You are basically stating that an electron in orbit is travelling at
the speed of light
which thus imparts the same velocity to a photon which there fore also
has mass
since it has the same speed as the electron in orbit! Something wrong
there!

And for the other gentleman, what exactly is an electric wave?
Does it stay in place or does it leave the radiator?
Does it have mass such that the radiator gets lighter in use?
It is beginning to appear to me that hams are not sure what creats
radiation
and what constitutes radiation!
Art

3487. Re: Sun Spots

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 23:51:55 UTC
From: Art Unwin <ArthurUnwin@gmail.com>
Message-ID: <acf050e5-e4dd-4db3-9d6f-e779f229a35b@h2g2000yqg.googlegroups.com>
Source record: 15111

On May 31, 5:28 pm, Cecil Moore <nos...@w5dxp.com> wrote:
> Bruce W. Ellis wrote:
> > The actual mean drift velocity for electrons at any reasonable curent
> > is quite low because there are so many of them in the conductor.
> > However, the electric wave driving them propagates at he speed of
> > light appropriate for the medium.
>
> The electrons move hardly at all at RF/AC frequencies.
> On the average, they tend to oscillate mostly in place.
> What travels at the speed of light are the photons
> emitted by the oscillating electrons. The electrons
> form the equivalent of a "bucket brigade" for the
> photonic wave energy.
> --
> 73, Cecil, IEEE, OOTC, http://www.w5dxp.com

Gentleman,
People are so glib when they speak of the speed of light.
When a time varying current is applied to a conductor there are
several reactances involved by that conductor.
One of them has the same characteristic speed which is often
attributed to light. It is this characteristic speed of an item that
impacts another item and thus imparts the same speed to that which is
impacted. Obviously that which is impacted is responsible for the
emission of light when it enters a resistive medium as latent energy
is distributed during the transition from potential to kinetic energy.
It also posseses a charge which is accellerated! Does that ring a
bell? I suggest you investigate the speed of capacitor discharge first
to see if that is possibly the instigator of such high speed and move
on from there
Art

3488. Re: "Panel" style UHF DTV antenna?

Newsgroup: rec.radio.amateur.antenna
Date: 2009-05-31 23:54:28 UTC
From: Gordon <gonzo@alltomyself.com>
Message-ID: <Xns9C1CABF8C29B9greederxprtnet@194.177.98.144>
Source record: 15112
Cross-posted to: rec.radio.amateur.antenna,rec.radio.amateur.homebrew,alt.tv.tech.hdtv

raypsi <RBorowiak@gmail.com> wrote in news:eedf031f-c023-4a15-abea-8a3b22751339@r16g2000vbn.googlegroups.com:

> Hey OM
> This si just a rehash of another post awhile back in this here forum.
> But DTV will never go away so:
>
> I seen one on youtube, there are a tonne of them, but this, to the
> best of my recollection, one used:
>
> 1pc 1x2 2ft long board
> 5 steel wire coat hangers
> dry wall screws
> and a 75 ohm to 300 ohm balun
>
> to make a 4 bay bowtie antenna
>

That one is all over the internet. It works OK, but you would
get better results with copper wire, not steel coat hangers.
It also looks ugly.

For another idea, do a google for a Hoverman style antenna.

Then there is mine...

http://mysite.verizon.net/g_reeder/Content/DTV_antenna.html